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UNDERGRADUATE

About This Catalog

The Marshall University Undergraduate Catalog fulfills two primary functions:

1. The rules and regulations, policies and procedures of the University, its divisions and its governing body, all of which apply to all students, are contained in this document. These rules apply during the publication year of the document and are subject to change during that year upon recommendation of the various divisions and approval of the president or governing body of the University.
2. The Catalog contains the specific requirements for all degrees and certificates awarded by the University. These are normally in effect for a period of ten consecutive years for undergraduate degrees and certificates and seven consecutive years for graduate degrees and certificates. Students are cautioned that programs leading to licensure may be altered by the outside licensing agency and are not subject to this provision.

Disclaimer

The provisions of this catalog do not constitute a contract, expressed or implied, between any applicant or student and Marshall University. The University reserves the right to change any of the provisions, schedules, programs, courses, rules, regulations, or fees whenever University authorities deem it expedient to do so.

Contact Directory

For specific information about academic or student services at Marshall University, the following telephone numbers are provided. All are in area code 304.

Contact	Phone
Academic	
Academic Affairs	696-6840
Admissions	696-3160
	1-800-642-3499
College of Arts and Media	696-6433
College of Business	696-2314
College of Education	696-3130
College of Engineering and Computer Sciences	696-5453
College of Health Professions	696-6750
College of Liberal Arts	696-2350
College of Science	696-2372
Center for Teaching and Learning	696-2206
University College	696-3169
Honors College	696-5421
Joan C. Edwards School of Medicine	691-1700
Department/Division	
Accountancy and Legal Environment	696-2310
Archaeology Lab	696-2802
Art and Design	696-6760
Biological Sciences	696-5413
Chemistry	696-2430
Classics	696-4323
Clinical Laboratory Sciences	696-3188
Communication Disorders	696-3641
Communication Studies	696-6786
Computer and Information Technology	696-6469
Counseling	696-2383
Criminal Justice and Criminology	696-3083
Early Childhood Education	696-3101
Educational Foundations and Technology	696-2333
Elementary Education	696-3101
Engineering	696-2695
English	696-6600/6601
Environmental Science and Safety Technology	696-4664
Finance/Economics/International Business	696-2311
Forensic Sciences	696-7241
Geography	696-2500
Geology	696-6720
Greek	696-4323
History	696-6780
Journalism/Mass Communication	696-2360
Kinesiology	696-6490
Latin	696-4323
Management/Health Care Administration	696-1964
Mathematics and Applied Science	696-6482
Marketing/Management Information Systems/ Entrepreneurship	696-1964
Medicine	696-7000
Medical Laboratory Science	696-3188
Military Science	696-6450
Modern Languages	696-6730
Music	696-3117
Natural Resources and the Environment	696-2923
Nursing	696-6750
Philosophy	696-6749
Physics	696-6738
Political Science	696-6636
Psychology	696-6446
Regents B.A. Degree	696-6400
Religious Studies	696-6749
Social Work	696-2642
Sociology & Anthropology	696-6700
Special Education	696-2340
Theatre	696-7184
Student Services	

Academic Advising	696-3169
Advocacy and Support	696-2284
African American Students' Programs, Center for	696-6705
Alumni Affairs	696-3134
Artists Series	696-6656
Athletic Ticket Office	696-4373
Bookstore	696-3622
Bursar	696-6620
Campus Christian Center	696-2444
Career Education	696-2370
Child Development Academy	696-5803
Computing Services (Service Desk)	
Huntington	696-3200
South Charleston	746-1969
Toll-Free	1-877-689-8638
Counseling Services	696-3111
Digital Media Services	696-2974
Disability Services	696-2271
Drinko Academy	696-3183
Environmental, Geotechnical, and Applied Sciences, Center for	696-4748
Fraternity and Sorority Life	304-696-6776
HELP Program	696-6317
Housing and Residence Life	696-6765
ID Card Office	696-6843
Information Technology, Office of	696-6671
International Student Services	696-6265
IT Service Desk	696-3200
LEAD Center	696-6776
Library	
Huntington	696-2320
South Charleston	746-8910
Marshall University Foundation	696-6264
MUOnLine	696-2970
Orientation	696-2354
Psychology Clinic	696-2772
Registrar	696-6410
Speech and Hearing Center	696-3641
Student Activities	696-6770
Student Center	696-6472
Student Conduct	696-2495
Student Financial Assistance	696-3162
Student Government	696-6435
Student Support Services	696-3164
Study Abroad	696-6265
Technology Outreach Center	696-3325
Telecommunication	696-8965
Testing Center	696-2604
Tutoring Office	696-6622
University College	696-3169
Women's and Gender Center	696-3338
Writing Center	696-2405
Campuses and Centers	
Mid-Ohio Valley Center	674-7200
South Charleston Campus	746-2500
Teays Valley Regional Center	757-7223

Toll-Free Number and Website

Toll-free telephone number: 1-800-642-3499 Undergraduate Office of Admissions

Website: www.marshall.edu (http://www.marshall.edu)

About Marshall University

Mr. Brad D. Smith, President

Dr. Ronald G. Area, Chief Executive Officer of the Marshall University Foundation, Inc., and Senior Vice President for Development

Mr. Jason Baldwin, Interim Chief Financial Officer

Mr. Bruce Felder, Chief Talent and Diversity, Equity and Inclusion Officer

Ms. Brandi Jacobs-Jones, Senior Vice President for Operations

Dr. John Maher, Vice President for Research

Mr. Michael McGuffey, Senior Vice President for Information Technology, Institutional Research, and Planning and Interim Chief Information Officer

Dr. Bobby Miller, Interim Dean, Joan C. Edwards School of Medicine

Dr. Avinandan Mukherjee, Provost and Senior Vice President for Academic Affairs

Mr. Bill Noe, Chief Aviation Officer

Ms. Ginny Painter, Chief of Staff

Dr. Marcie Simms, Vice President for Intercultural and Student Affairs

Mr. Christian Spears, Director of Athletics

Mr. H. Toney Stroud, Chief Legal Officer and General Counsel

Ms. Charlotte Weber, Vice President for Government Relations

Marshall University offers programs which encourage individual growth through the attainment of scholarship, acquisition of skills, and development of personality.

Professional, technical, and industrial career studies are available through the various departments of the university.

The university provides students with opportunities to understand and make contributions to the culture in which they live; to develop and maintain physical health; to participate in democratic processes; to learn worthwhile moral, social, and economic values; to develop intellectual curiosity and the desire to continue personal growth; and to share in a varied cultural program.

Marshall also recognizes an obligation to the state and community by offering evening, off-campus, and Internet classes, as well as lectures, artistic programs, conferences, forums, and other campus and field activities.

Mission of the University

Marshall University is a public comprehensive university with a rich history as one of the oldest institutions of higher learning in West Virginia. Founded in 1837 and named after Chief Justice John Marshall, definer of the Constitution, Marshall University advances the public good through innovative, accredited educational programs. Marshall University's mission, inspired by our Vision and Creed, includes a commitment to:

- Offer a wide range of high quality, affordable, and accessible undergraduate, graduate, and professional education that prepares students to think, learn, work, and live in an evolving global society.
- Create opportunities and experiences to foster understanding and appreciation of the rich diversity of thought and culture.
- Maintain a dynamic intellectual, artistic, and cultural life by promoting and supporting research and creative activities by undergraduates, graduates, and faculty.
- Contribute to the quality of life of the community, region, and beyond through applied research, economic development, health care, and cultural enrichment.
- Cultivate the development of an inclusive, just, and equitable community.

Marshall University Vision Statement

The vision of Marshall University: to inspire learning and creativity that ignites the mind, nurtures the spirit, and fulfills the promise of a better future.

Undergraduate Assessment at Marshall University

Marshall University has an ongoing assessment program that is firmly rooted in the university's mission. The assessment initiative grew from both faculty and administration concern for institutional quality and accountability. The assessment process provides the institution, colleges, and programs with information regarding institutional effectiveness. All segments of the university community—faculty, staff, administration and students—are to be actively involved in this process. Of central importance in the process is the assessment of student learning in the major and in general education, directed by the University Assessment Committee and the Associate Vice President of Assessment and Quality Initiatives.

The Marshall Creed

Inspired by the example of John Marshall, we the students, faculty, staff, and administrators of Marshall University, pledge to pursue the development of our intellects and the expansion of knowledge, and to devote ourselves to defending individual rights and exercising civic responsibility. We strive to exemplify in our own lives the core values of John Marshall's character: independence, initiative, achievement, ethical integrity, and commitment to community through association and service. As Marshall University, we form a community that promotes educational goals and that allows individuals maximum opportunity to pursue those goals.

We are:

- **An Educational Community** in which all members work together to promote and strengthen teaching and learning;
- **An Open Community** uncompromisingly protecting freedom of thought, belief and expression;
- **A Civil Community** treating all individuals and groups with consideration, decency, and respect, and expressing disagreements in rational ways;
- **A Responsible Community** accepting obligations and following behavioral guidelines designed to support the common good;
- **A Safe Community** respecting each other's rights, privacy and property;
- **A Well Community** respecting and promoting physical and emotional health;
- **An Ethical Community** reflecting honesty, integrity and fairness in both academic and extracurricular activities;
- **A Pluralistic Community** celebrating and learning from our diversity;
- **A Socially Conscious Community** acting as citizens of the world and seeking to contribute to the betterment of people and their environments;
- **A Judicious Community** remaining alert to the threats posed by hatred, intolerance and other injustices and ever-prepared to correct them.

Statement of Professional Ethics for All Employees

The faculty, staff, and administrators of Marshall University share a commitment to professional ethics as an obligation to our students, to the citizens of the state of West Virginia, and to each other as colleagues. To this end, we endorse the "Statement on Professional Ethics" of the American Association of University Professors, the "Ethical Practices for College Presidents" statement of the American Association of State Colleges and Universities, the "Statement on Government of Colleges and Universities," a joint statement of the American Association of University Professors, the American Council on Education, and the Association of Governing Boards of Universities and Colleges, and the "Ethics Act" of the West Virginia Ethics Commission. All of these documents may be found online at www.marshall.edu (http://www.marshall.edu).

All employees should strive to adhere to the following guiding principles derived from the above documents. This is not intended as a complete listing of standards included in those documents.

- Honesty and Trustworthiness in all professional dealings with others;
- Fairness and Equity, requiring that one does not discriminate or harass others;
- Respect for the opinions, needs, goals, and responsibilities of others;
- Full and open communication between and among colleagues, students, staff, and administrators;
- Impartiality in all professional decision making;
- Keeping primary the interests of both students and the institution;

- Acceptance and fulfillment of responsibility in the shared governance of the university;
- Integrity in all interactions with others;
- Confidentiality of information where appropriate;
- Adherence to the ethical standards of one's discipline or field.

All employees are duty bound to maintain these ethical standards as well as to call attention to situations where these standards may have been violated. The state and the institution provide administrative procedures for the filing and investigation of ethical complaints. However, in case an employee does not feel that he/she was treated properly in attempts to point out a potential ethical violation he/she may file a statutory grievance. The grievance process is governed by West Virginia State Code §6C-2. This is the only grievance process and is to be used when necessary by all employees - both faculty and staff.

History

The Beginning

Marshall University traces its origin to 1837, when residents of the community of Guyandotte and the farming country nearby decided their youngsters needed a school that would be in session more than three months a year. According to tradition, they met at the home of lawyer John Laidley, planned their school, and named it Marshall Academy in honor of Laidley's friend, the late Chief Justice John Marshall. They chose one and one-quarter acres of land in an area called Maple Grove where stood a small log building known as Mount Hebron Church. It had been the site of a three-month subscription school and remained that for another term. Eventually $40.00 was paid for the site.

The Academy and the College

On March 30, 1838, the Virginia General Assembly formally incorporated Marshall Academy. Its first full term was conducted in 1838-39. For decades the fledgling school faced serious problems, most of them financial. The Civil War forced it to close for several years, but in 1867 the West Virginia Legislature renewed its vitality by creating the State Normal School at Marshall College to train teachers. This eased Marshall's problems somewhat, but it was not until the tenure of President Lawrence J. Corbly from 1896 to 1915 that the college began its real growth. In 1907, enrollment exceeded 1,000.

The University

Marshall was granted university status in 1961. The university now functions through these academic units: the College of Arts and Media, the College of Business, the College of Education and Professional Development, the College of Information Technology and Engineering, the College of Liberal Arts, the College of Health Professions, the Honors College, the College of Science, the School of Pharmacy, University College, the Graduate College, and the School of Medicine.

Accreditations

- **The Higher Learning Commission** accredits Marshall University as an institution of higher learning.
  The Higher Learning Commission
  230 South LaSalle Street, Suite 2400
  Chicago, IL 60602
  Toll-free 1-800-621-7440
  www.hlcommission.org (http://www.hlcommission.org)
- **Accreditation Council for Continuing Medical Education** accredits the School of Medicine's Continuing Medical Education program.
- **Accreditation Council for Graduate Medical Education** accredits the School of Medicine's Residency Programs in Internal Medicine, Pathology, Transitional Year, Surgery, Pediatrics, Family Practice and Obstetrics/Gynecology.
- **AACSB International – The Association to Advance Collegiate Schools of Business** accredits the College of Business.
- **AACSB International – The Association to Advance Collegiate Schools of Business** accredits accounting degree programs of the College of Business.
- **ABET –** Accredits programs in applied and natural science, computing, engineering and engineering technology. B.S. in Safety Technology (now Occupational Safety and Health) by Applied Science Accreditation Commission (ASAC). B.S. in Computer Science by Computing Accreditation Commission (CAC). B.S. in Engineering, B.S. in Electrical and Computer Engineering and B.S. in Mechanical Engineering by the Engineering Accreditation Commission (EAC). https://www.abet.org
- **American Chemical Society** certifies the Department of Chemistry.
- **American Psychological Association** accredits Doctor of Psychology degree program.
- **Accreditation Review Commission on Education for the Physician Assistant, Inc.** provides accreditation for the Physician Assistant program.
  3325 Paddocks Parkway, Suite 345
  Suwanee, GA 30024
  Phone: 770-476-1224
- **Accrediting Council on Education in Journalism and Mass Communication** accredits the W. Page Pitt School of Journalism & Mass Communications.
  Accrediting Council on Education in Journalism and Mass Communication
  University of Mississippi
  201 Bishop Hall, P.O. Box 1848
  University, MS 38677-1848
  Telephone 662-915--5550
- **Commission on Accreditation of Athletic Training Education** accredits the Athletic Training program.
  Commission on Accreditation of Athletic Training Education
  6850 Austin Center Blvd., Suite 100
  Austin, TX 78731
  Telephone 512-733-9700
- **Council for the Accreditation of Educator Preparation (CAEP)** and the **West Virginia State Department of Education** accredit the teacher education program.
- **Council on Academic Accreditation of the American Speech-Language-Hearing Association** accredits the Communication Disorders graduate program.
  Council on Academic Accreditation of the American Speech-Language-Hearing Association
  10801 Rockville Pike
  Rockville, MD
  Telephone 301-897-5700
- **Council on Accreditation of Allied Health Education Programs** and the **American Society of Cytology** accredit the Cytotechnology program.
  Council on Accreditation of Allied Health Education Programs

35 East Wacker Drive, Suite 1970
Chicago, IL 60610
Telephone 312-553-9355

- **Council on Social Work Education** accredits the Master of Social Work program.
  Council on Social Work Education
  1600 Duke Street
  Alexandria, VA 22314
  Telephone 703-683-8080
- **Liaison Committee on Medical Education of the American Medical Association** and the **Association of American Medical Colleges** accredits the School of Medicine.
  Association of American Medical Colleges
  515 North State Street
  Chicago, IL 60610
  Telephone 312-464-4657
- **National Accrediting Agency for Clinical Laboratory Sciences** accredits the Medical Laboratory Science program and the Medical Laboratory Technician program.
  National Accrediting Agency for Clinical Laboratory Sciences
  5600 N. River Road, Suite 720
  Rosemont, IL 60018- 5119
- **National Association of Schools of Music** accredits the School of Music.
  National Association of Schools of Music
  11250 Roger Bacon Drive
  Reston, VA 22090
  703-437-0700
- **Council for the Accreditation of Educator Preparation (CAEP) and the West Virginia State Department of Education** accredit the teacher education program.
- **Accreditation Commission for Education in Nursing, Inc.** accredits programs for the Associate in Science in Nursing, the Bachelor of Science in Nursing and the Master of Science in Nursing.
  Accreditation Commission for Education in Nursing, Inc.
  3343 Peachtree Road NE, Suite 850
  Atlanta, GA 30326
  Phone 404-975-5000
  Fax 404-975-5020
- **Applied Science Accreditation Commission of the Accrediting Board for Engineering and Technology** accredits the Safety Technology undergraduate program.
  Applied Science Accreditation Commission of the Accrediting Board for Engineering and Technology
  111 Market Place, Suite 1050
  Baltimore, MD 21202
  Telephone 410-347-7700
- **World Safety Organization** accredits undergraduate and graduate programs in Safety Technology.

Approvals

- **American Association of University Women** approves Marshall University.
- **Federal Immigration and Nationality Act** approves Marshall University for attendance of nonimmigrant international students.

Membership in Major Organizations

- **AACSB/International Association to Advance Collegiate Schools of Business**
- **American Association for Affirmative Action**
- **Association of American Colleges and Universities**
- **Association of Writers and Writing Programs**
- **American Association of Colleges for Teacher Education**
- **American Association of State Colleges and Universities**
- **American Council on Education**
- **American Library Association**
- **Association of American Medical Colleges**
- **Association of Departments of English, MLA**
- **Association of Schools of Journalism and Mass Communication**
- **Council of Colleges of Arts and Sciences**
- **The Honor Society of Phi Kappa Phi**
- **International Council of Fine Arts Deans**
- **NACUBO-SACUBO**
- **National Association of Fellowships Advisors**
- **National Collegiate Athletic Association**
- **National Collegiate Honors Council**
- **Founding Member of the Ohio River Basin Consortium for Research and Education**
- **Southern Council on Collegiate Education for Nursing**
- **Teacher Education Council of State Colleges & Universities**

The Faculty

There are more than 700 full-time faculty at Marshall University, and of them, 85 percent hold the highest degree in their fields of specialization. The faculty's first commitment is to teaching. The second responsibility is to advancing scholarly and creative work, and service is the third area of professional obligation. Each year Marshall University honors its faculty by recognizing outstanding teaching, notable scholarship, and distinguished service.

In the words of a Marshall undergraduate, "The professors here are concerned with helping the student. If you make the effort to approach them, they are willing to go to great lengths to assist you."

Faculty are identified in the departmental sections of this catalog and in the faculty listing.

The Campuses

The Huntington campus of Marshall University encompasses about 90 acres. It is bounded on the north by Third Avenue, on the south by Fifth Avenue, on the west by Hal Greer Boulevard, and on the east by Twentieth Street. The Medical School is located several blocks to the south. This campus is 126 miles east of Lexington, Kentucky, and 50 miles west of Charleston, West Virginia.

Huntington is a safe, picturesque city with hospitals, libraries, restaurants, a renowned museum, a city-wide park, and nearby factories for making hand-blown glass. Concerts and theatrical productions take place in outdoor amphitheaters located in the park and along the riverfront.

A strong "town-gown" relationship benefits both the Huntington community and Marshall University, and is particularly evident in the mutual support of cultural activities and community support of the university's athletic events.

The South Charleston campus of Marshall University lies 46 miles to the east of the campus in Huntington, and covers about 29 acres in South Charleston, West Virginia. There are two buildings at the South Charleston campus.

The university takes great pride in its continuing efforts to maintain a barrier-free campus for individuals with physical limitations.

Huntington Campus

Arthur Weisberg Family Applied Engineering Complex, located on Third Avenue on the north side of campus, was completed in spring of 2015. It was named in honor of Arthur Weisberg and his family, who have been strong supporters of engineering and computer science at Marshall. The facility houses administration, offices, classrooms and state-of-the-art laboratories of the College of Engineering and Computer Sciences. The College of Science also has instructional and computer laboratories, faculty offices and the MAGIC (Marshall's Advanced Gaming and Interactivity Center) lab located in this building. In addition the Weisberg Applied Engineering Complex includes laboratories and offices for the Marshall Institute for Interdisciplinary Research and the Marshall University Research Corporation.

Arthur Weisberg Family Engineering Laboratories was completed in August of 2009. It was named in honor of Arthur Weisberg and his family, who have been strong supporters of engineering and computer science at Marshall. A variety of engineering laboratories are housed in this building.

Birke Gallery, located on the first floor of Smith Hall at the northwest corner of campus, was named to honor the family of Helen Birke, a former Huntington patroness of the arts. The facility was enlarged in 1993. Directed by the School of Art and Design, the Birke Gallery mounts exhibits of student and professional art works for the benefit of art students, the campus at large and the entire community.

Buskirk Hall, a six-story women's residence hall with double and single rooms and a capacity of approximately 193 women, is on the east side of the inner campus. Opened in 1965 as West Hall, it was renamed in 1976 to honor Lillian Helms Buskirk, who was Dean of Women from 1941 until 1970. This residence hall houses Business and Science Living Learning Communities, the First Year Residential Experience, and a designated Quiet Floor. Buskirk Hall is also ADA accessible for students.

Cam Henderson Center, opened in 1981, presents a spectacular profile against the campus skyline on Third Avenue on the north side of campus. The facility was named to honor legendary coach Cam Henderson, whose career at Marshall extended from 1935 to 1955. Special features include a 9,000+-seat basketball arena, four secondary basketball courts, racquetball courts, training rooms, weights rooms, locker rooms and meeting rooms. The Frederick A. Fitch Natatorium, an 800-seat swimming area, was named in honor of a professor and chair of physical education. The building contains human performance labs, intercollegiate offices, the Sports Information office, the Big Green Scholarship office, and the athletic events ticket office.

Campus Christian Center, completed in 1961 on Fifth Avenue beside the Memorial Student Center, is privately owned and operated by a corporation whose Board of Directors is elected by nine Christian denominations. No state funds were involved in its construction. The building contains a chapel, conference rooms, fellowship hall and kitchen, lounge, office space for campus ministers, workshop rooms, and the Stewart H. Smith religious library, named to honor the President (1946 to 1968) of Marshall College and then Marshall University.

Career Education, the Office of Career Education, is located on the southwest corner of Fifth Avenue and l7th Street. The Office of Career Education provides career development and support services for students and alumni. Career Education staff support is available, as well as computers for career research, job search skill development and interview practice, and other online career resources.

Communications Building, the third building of the Smith Hall Complex, was completed in 1970. Located on Third Avenue at the east end of the complex, it houses the studio of WMUL-FM radio, Digital Media Services, and University College.

Corbly Hall, a four-story building located at the southwest corner of campus, was named for Lawrence J. Corbly, who served as "principal" of Marshall College from 1896 to 1907, and as its first president from 1907 to 1915. When dedicated in November 1980, Corbly Hall was the largest academic building in the West Virginia state system of higher education. It is the home of the College of Business, which includes the Department of Accountancy and Legal Environment; the Department of Finance, Economics and International Business; the Department of Management and Health Care Management; and the Department of Marketing, Management Information Systems, and Entrepreneurship. Corbly also houses the Department of English.

Drinko Library and Information Center, located on the western side of campus beside Old Main, opened in 1998 and is named for John Deaver Drinko, a Marshall graduate, philanthropist, and strong supporter of higher education. This is a 118,000 square foot, state-of- the-art facility. Its west side presents a traditional facade that is compatible with adjacent Old Main, while the east side, with an imposing five-story atrium, is modern in design. The dual outward appearance is reflected inside, as the facility melds a full range of traditional library services with state-of-the art computing and distance education facilities that include multimedia training and presentation rooms, quiet study and work rooms, computer work stations and computer carrels. The Drinko Study Center is open 24 hours five days per week and includes access to a spacious reading room with computer consultation stations. The overall library system includes close to three million items consisting of numerous subject-specific databases, print and electronic books or periodicals, scores, multimedia resources, government publications, special collections, and microforms. The Drinko Library provides private and group study rooms, conference rooms, classrooms, and an auditorium. The Information Technology administration and several units in this division are also housed in Drinko.

East Hall is located on the east side of campus near the First Year Residence Halls. It houses the new Intercultural Center, the new Student Success Center, and the English Language Institute. **The Intercultural Center** serves to prepare Marshall University students and graduates for leadership and success in a pluralistic and globally integrated society. The Intercultural Center includes the Center for African American Students; the Lesbian, Gay, Bisexual, Transgender, Queer/Questioning+ Office; and the International Students Office. **The Student Success Center** sponsors success programming especially for freshmen, sophomores, and new transfer students and is the

home of the Friend at Marshall (FAM) Peer Mentoring Program, the Supplemental Instruction Program, the Herd Path Program, and the Alternative Suspension Program. **The English Language Institute** facilitates English language learning and cultural educational understanding for Marshall's international students.

The **Education Building**, constructed in 1937, is located on the eastern side of the inner campus. Until 1970 the building provided elementary through high school education and served as a laboratory for prospective teachers. Now, it houses administration, offices, and classrooms of the College of Education and Professional Development. The facility includes the Learning Resource center, a mathematics education laboratory, a science education laboratory, electronic classrooms, and the June C. Harless Center for Rural Educational Research and Development.

The **First Year Residence Halls** (FYRH) opened in the fall of 2008. There are two buildings of four floors each, which house a total of approximately 782 students. Students share a bedroom and bathroom with one roommate. Each student is provided an extra-long bed, bureau, desk and chair. These residence halls provide Ethernet and wireless Internet access, along with cable television. There are emergency phones on each floor and card access into the building, along with security cameras in the common areas. These residence halls also have study lounges, classrooms and common area space for student use. Resident Advisors are assigned to each floor and 24-hour desk coverage is provided. A professional staff member lives on site for after-hours emergencies.

Gullickson Hall, completed in 1961, adjoins the newer Cam Henderson Center at 18th Street and Fourth Avenue on the northeast side of campus. It was named in honor of Otto (Swede) Gullickson, who developed a large collegiate intramural program at Marshall beginning in 1930 and continuing for almost four decades. This three-story facility contains classrooms, offices, a gymnasium seating 250, rifle range, steam room, and first-aid laboratory. It houses the School of Kinesiology, and the department of military science.

Harris Hall, on Third Avenue on the north side of campus, was completed in 1976 and named in honor of Arvil Ernest Harris, a political science and social studies professor who served as dean of the graduate school from 1948 to 1964. The four-story building houses the departments of classics, geography, history, religious studies, philosophy, psychology, counseling, adult and continuing education, and education administration.

Holderby Hall, built in 1963 on Fifth Avenue as South Hall to house male students, was expanded in 1969 to become a nine-story, co-ed residence hall with a capacity of approximately 250 in all deluxe singles. Holderby Hall is also home to one of our Faculty-In-Residence. In 1980 it was renamed in honor of James Holderby, who in 1837 sold one and one-fourth acres of his farm to establish Marshall Academy. Living areas on the ground-level floor offer ADA-accessible rooms for male students. Marshall University's Campus Express: Pizza, Subs and More, or C' Store, is located on the north side of the building along with the Department of Housing and Residence Life.

Joan C. Edwards Performing Arts Center is located on Fifth Avenue on the south side of campus across from Memorial Student Center. Completed in 1992, the facility was named to honor Joan C. Edwards, a Huntington philanthropist and patroness of the arts. The facility includes performance and support space for a 530-seat theater auditorium, an experimental theater, and rehearsal rooms.

Joan C. Edwards Stadium, built in 1991, is located at the corner of 20th Street and Third Avenue on the eastern end of campus. The 38,000-seat stadium has an artificial playing surface of 53,147 square feet, and houses luxury boxes, coaches' boxes, a working press area, and a Big Green meeting room. On the east side of the stadium is a 129,000 square foot grass practice field.

Jomie Jazz Center, at the east side of the Edwards Performing Arts Center, was completed in 2000. Named for Joan and Jimmie Edwards, supporters of Marshall University and the fine arts, it houses the jazz studies program (School of Music) and the offices of the Marshall Artists Series. The building features a state-of-the-art digital recording studio, a music computer laboratory with digital workstations, and the Jazz Forum, an intimate performance space.

Joseph M. Gillette Welcome Center, relocated in 2007, is located on Fifth Avenue at 16th Street on the southwest side of campus, opposite Corbly Hall. Home of the Office of Recruitment, the Gillette Welcome Center is the first stop for prospective students to obtain information about the university and its many academic programs. Daily information sessions and campus tours begin in the Welcome Center.

Laidley Hall, located on the corner of 3rd Avenue and 18th Street, was formerly a residence hall.

Marshall Commons opened in the fall of 2003. The five-building complex is located on Fifth Avenue, east of the Jomie Jazz Center. The four residence halls in the complex are identical, contemporary buildings with accommodations for approximately 480 students in suite-style arrangements. All are co-ed residences; Willis Hall is designated for Honors students. Haymaker is designated as an upper-class hall for juniors and seniors and is home to the Greek Living-Learning Community. Wellman Hall is home to the Health Professions Living-Learning Community. The Commons are also home to one of our Faculty-In-Residence. Each hall has laundry facilities, recreation rooms, lounges, and is fully wired for each student's computer connections. Harless Dining Hall, which opened in January 2004, has a capacity to seat 340 students and includes a meeting room as well.

Marshall Recreation Center, a 123,000-square-foot facility, contains 4 wood gym courts for basketball, volleyball, badminton, pickle ball and dodge ball; a 37' climbing wall with bouldering area; outdoor pursuits center with rental equipment area; aquatics center with 3 lap swim lanes, leisure pool, vortex pool and 20 person spa; men's and women's locker rooms; family changing areas with lockers; 17,000 square feet of fitness space on the second and third floor with free weights, selectorized machines with LCD televisions; 4 group exercise rooms; a 3 lane 1/7th mile walking/jogging/running track; massage area; fitness assessment room; juice bar; a Wellness Center, lounge areas and staff offices. Immediately east of the pool is an outdoor, fenced area for sunning and relaxing. The entire facility is accessible for persons with disabilities. The Rec Center is also the largest student employer on campus. For additional information refer to the website at www.marshallcampusrec.com (http://www.marshallcampusrec.com).

Marshall University Medical Center, located at 1600 Medical Center Drive several blocks south of the main campus and adjacent to Cabell Huntington Hospital, opened in 1998 as the new home of the Joan C. Edwards School of Medicine. It is a dual complex composed of the Robert C. Byrd Center for Rural Health (honoring U. S. Senator Byrd) and the University Physicians Center. The four-floor structure houses the departments of Psychiatry & Behavioral Medicine,

Internal Medicine, Family Practice, Surgery, Pediatrics, and Obstetrics/Gynecology. The facility also includes the outpatient Hanshaw Geriatric Center (named for Frank E. Hanshaw, Sr., a founder and first president of the Marshall University Foundation), Cardiovascular Services, a Health Science Library, offices for the School of Medicine, and an auditorium and teleconference center.

Memorial Student Center, located on Fifth Avenue on the south side of campus, was completed in 1971. Its name commemorates the loss of the entire Marshall football team in a 1970 plane crash. On the campus side a plaza is centered by a fountain designed by sculptor Harry Bertoia with points at the top that represent those lives lost in the crash. The building houses offices of Student Government, Student Activities, the LEAD Center, the Wellness Center, Student Affairs, West Virginia Army National Guard, Food Service and the commuter lounge. It includes a large central lounge, study areas, food court, restaurant, coffee shop, recreation area, information desk, and meeting and conference rooms. Memorial Student Center also houses the **University Bookstore**, which was renovated and enlarged in 1998.

Morrow Library, named for James E. Morrow, head of Marshall College from 1872-1873, is located on Third Avenue and was constructed in 1930 with an addition completed in 1967 that doubled the library size to over 100,000 square feet. Drinko Library opened in 1998 as the university's primary library facility, and Morrow Library now houses a mix of library and university functions. The library facilities include the Archives & Special Collections department which includes the university archives that relate to the history of Marshall; the West Virginia and regional history book collection; West Virginia state documents; manuscript collections of local and regional interest; the Rosanna Blake Library of Confederate History, which includes resources on antebellum Southern history; as well as the Morrow Stacks (general books and periodicals). Library services also include Government Documents, a federal depository for government materials with a collection of over one million items. In addition to library services, the building houses the Department of Computer and Information Technology's instructional and computer laboratories, faculty offices and "learning commons." Morrow is also home to the Appalachian Studies Association office and the Testing Center.

Myers Hall, completed in 1992 on 18th Street at the east end of campus, was named to honor Wilbur E. Myers, who contributed most of the private funds used to build and furnish the facility. The structure houses the nationally recognized Higher Education for Learning Problems (H.E.L.P.) Center, which provides services for those college students diagnosed as having learning disabilities such as dyslexia or attention deficiency disorder.

Old Main, Marshall University's administrative building, faces Hal Greer Boulevard and Fourth Avenue on the west side of campus. The oldest building at Marshall University, Old Main is actually five buildings joined together in a series of additions constructed between the years 1868 and 1908. Its towers have become the symbol of the university to alumni. Old Main houses the principal administrative offices of the university and the offices of the College of Liberal Arts, the Women and Gender Center, and the Center for Teaching and Learning. On the second floor is the John Deaver Drinko Academy, named for a graduate and supporter of the university, and the Center for Academic Excellence, which houses the Honors College.

One Room School Museum, located on Fifth Avenue near the Memorial Student Center, was a former one-room school dating from 1889 in Cabell County. It was moved to the Huntington campus and dedicated in 1995 to honor West Virginia's rural education heritage.

Prichard Hall, situated in the eastern mid-part of the inner campus, was completed in 1955 and named in honor of Lucy Prichard, a distinguished professor of classics and faculty leader during the 1920's and 30's. Formerly a residence hall, this four-story structure was renovated in 1973 and now houses the classrooms of the College of Health Professions, as well as Disability Services, the Student Counseling Center, Student Support Services.

Robert C. Byrd Biotechnology Science Center, opened in 2006 and is named for the late Robert C. Byrd, U.S. Senator (D) representing West Virginia. Federal, state, and private funding supported the construction and equipping of the $48 million, 144,000-square-foot center. This state-of-the-art research and educational facility is located on Third Avenue across from the Science Building. It is designed to facilitate interdisciplinary research between the College of Science and School of Medicine. Fostering this interaction is a 285-ft., over-the-street walkway connecting the Biotechnology Science Center with Marshall's Science Building.

Science Building, located on Third Avenue on the north side of campus, was completed in 1942 and expanded in 1985 and 1995. The facility houses administration, offices, classrooms and laboratories of the College of Science. In addition the Science Building includes laboratories and offices of the Clinical Laboratory Services department, a greenhouse, and a chemical storage building on the east side.

Smith Hall complex includes **Smith Hall**, **Smith Music Hall**, and the **Communications Building**.

Smith Hall, a seven-story structure on Third Avenue at the northwest corner of campus, opened in 1967 and was named in honor of Stewart H. Smith, President of Marshall University from 1946 to 1968. It houses the departments of art, communication disorders, communication studies, criminal justice, mathematics, modern languages, political science, sociology and anthropology, as well as the offices of the College of Arts and Media, and the Birke Art Gallery. The structure has an 84-car parking garage in the lower level.

Smith Music Hall, at the northwest corner of campus and part of the Smith Hall complex, was opened in 1967. Named to honor Evelyn Hollberg Smith, whose husband served as President of Marshall University from 1946 to 1968, the facility is home to the music program. It contains classrooms, faculty studios, practice rooms, a listening laboratory, a 490-seat recital hall, and rehearsal facilities for vocal and instrumental performances of both individuals and group ensembles.

The **Communications Building** houses the School of Journalism and Mass Communications, as well as University College.

Sorrell Maintenance Building, named in honor of Howard K. Sorrell, who was a service engineer at Marshall University for 35 years, was constructed in 1965 on 20th Street at the eastern end of campus. It houses the departments of physical plant, facilities planning and management, and health and safety, in addition to supply rooms and storage facilities.

Twin Towers East and West, which opened in 1969, stand on Fifth Avenue on the southeast side of campus. These buildings are fifteen-story, co-ed residences. Quiet floors are available in Twin Towers West as well as the male Business and Science living-learning communities.

Twin Towers East houses a First Year Experience community, along with upper-class floors. Both buildings have living spaces on the second floors that are ADA accessible. A dining hall, renovated in the summer of 2011, connects the two towers. These residence halls provide Ethernet and wireless Internet access as well as study lounges, classrooms and common area space for student use.

Other Huntington Locations

The **Visual Arts Center**, located at 927 Third Avenue, houses all of the majors in the School of Art and Design except ceramics and sculpture, which are taught in the university's Art Warehouse.

Huntington's Kitchen, located at 911 Third Avenue, houses the Department of Dietetics of the College of Health Professions. It is a joint operation of Cabell Huntington Hospital and Marshall University.

Robert C. Byrd Institute for Advanced Flexible Manufacturing, envisioned by the late U.S. Senator for whom it was named, provides technical, hands-on assistance with state-of-the-art capabilities for small and medium-sized manufacturers. Since opening in 1991 on Fourth Avenue in downtown Huntington, the RCBI has expanded its operations through four additional manufacturing technology centers in strategic locations around the state.

South Charleston Campus

Administration Building houses the admission office, classrooms (including an electronic classroom), and two computer labs, in addition to offices for faculty and staff.

Robert C. Byrd Academic and Technology Center is named for the late U.S. Senator Byrd in recognition of his efforts on behalf of education in West Virginia. The facility contains thirteen classrooms and the Robert C. Byrd Institute for Advanced Flexible Manufacturing. On the first floor it also houses the South Charleston Campus Library, which holds a core collection of books and journals that support the undergraduate and graduate programs offered on that campus. Access to all Marshall Libraries' electronic resources is available, along with a professional staff to assist students and faculty with their research needs. Individual and group study rooms are available for student use. Marshall IDs are taken in the library, and the staff also proctors the Miller Analogies Test.

Admissions

Office of Admissions

One John Marshall Drive
Huntington, West Virginia 25755
Telephone 1-800-642-3499 or 1-304-696-3160
admissions@marshall.edu
www.marshall.edu/admissions (http://www.marshall.edu/admissions/)

General Admission Information

Students applying for admission to Marshall University must submit an application form available from the Office of Admissions or apply online. **All applications for admission or re-admission must be submitted to the Office of Admissions, along with all required credentials, at least two weeks prior to the start Eof a term.** Applications that are submitted after this deadline or that are not complete by this deadline may not be evaluated in time for applicants to register for the current term. **Applicants who apply late or who fail to ensure that their application files are complete at least two weeks prior to the start of a term must recognize that admission may be deferred to a future term and assume all responsibility for failure to complete the application process by the stated deadline.**

All materials and credentials submitted to the Office of Admissions become the property of Marshall University. Materials and credentials will not be returned or released to third parties. **Any student admitted on the basis of false and/or incomplete information is subject to immediate dismissal or other disciplinary action.**

Prospective students can request information, complete the online application, or access additional resources at www.marshall.edu/admissions (http://www.marshall.edu/admissions/). For specific admission requirements for each student type, please see the appropriate section below.

Admission to the university does not guarantee admission to any particular college or degree program. Students must meet the requirements of the academic college they wish to enter, or of the degree program sought. Check individual college program listings for details.

Admission to Marshall University is granted for a specific term only. Applicants who fail to register during the term for which they are admitted may contact the Office of Admissions and request an extension of acceptance for up to one academic year. An applicant who attends another accepted, accredited college or university during that time must re-apply as a transfer student. Appeals of the admission decision will be granted on a very limited basis at the discretion of the Admission Appeals Committee when extenuating circumstances exist. The student must show great potential for success, provide a plan for improving academic performance, and submit documentation of all extenuating circumstances. For more information on submitting an appeal, please contact the Office of Admissions.

A housing reservation, scholarship award, or grant-in-aid is contingent upon admission to Marshall University. Admission to the university does not guarantee housing. All students must be fully admitted to re-enroll for succeeding terms. An admitted applicant can visit www.marshall.edu/newstudentchecklist (http://www.marshall.edu/newstudentchecklist/) for information regarding all steps in the enrollment process.

An **enrollment deposit** is due before a new student can register for courses, New Student Orientation, or housing. The enrollment deposit, the entire amount of which will be applied to the student's first semester tuition and fees, is fully refundable through May 1 for the fall semester and through December 1 for the spring semester. For more information, contact the Office of the Bursar at www.marshall.edu/bursar (http://www.marshall.edu/bursar/).

Compliance with Military Selective Service Act

State law provides that a male person who has attained the age of eighteen (18) years may not enroll in a state-supported institution of postsecondary education unless he is in compliance with the Military Selective Service Act (50 U.S. Code, Appendix 451, et. eq. and the amendments thereto). Also, a male person may not receive a loan, grant, scholarship, or other financial assistance for postsecondary higher education funded by state revenue, including federal funds or gifts and grants accepted by this state, or receive a student loan

guaranteed by the state unless he is in compliance with the Military Selective Service Act.

Application Fees

All new domestic undergraduate students applying to Marshall University must pay a $40 application fee. Once the $40 application fee has been paid, no additional application fee is required for subsequent undergraduate applications.

In lieu of the application fee, transfer students must pay a $50 transfer evaluation fee. Transfer evaluation fees are valid for one academic year only.

International applicants are required to submit a non-refundable $150US application fee that is valid for one academic year. International transfer students must submit the $150US application fee and $50US transfer evaluation fee.

Freshmen

Application Procedures for Freshmen and Non-Transfer Students

High School Graduates

General Requirements

1. A high school diploma (official transcript with graduation date required); applicants must be beyond the age of compulsory school attendance in West Virginia.
2. An overall Grade Point Average of 2.00 on a 4.00 scale and an ACT Composite score of 19 or SAT Total Score[1] of 990 or an overall Grade Point Average of 3.00 on a 4.00 scale and an ACT Composite of 16 or SAT Total Score[1] of 880 is required for regular freshman admission. Majors within the College of Engineering and Computer Sciences have additional requirements for admission. Please consult the current undergraduate academic catalog for specific information regarding requirements.
3. **Recommended** completion of Higher Education Policy Commission (HEPC) academic core unit requirements:
   - 4 units of English (including English 12CR and courses in grammar, composition, and literature)
   - 4 units of mathematics (three units must be Algebra I and higher or Math I or higher; Transitional Math for Seniors will also be accepted). Courses designed as "support courses", such as Math I Lab or Math I Support, that provide extra instructional time but no additional content shall not be acceptable as meeting the required 4 mathematics course core requirements.
   - 3 units of social studies (including U.S. studies/history)
   - 3 units of science (all units must be college-preparatory laboratory science, preferably including units from biology, chemistry, and physics)
   - 2 units of world language (two units of the same world language; sign language is also acceptable)
   - 1 unit of arts

Students seeking admission to four-year degree programs must earn credit for the courses listed above.

Applicants who have not completed the HEPC course requirements may be admitted, but must complete commensurate college-level coursework prior to degree completion. Please consult an academic advisor for specific course requirements.

First-time freshmen pursuing a four-year baccalaureate degree who meet all admission requirements will be admitted unconditionally.

A very limited number of students who do not meet the GPA, ACT/SAT, or Higher Education Policy Commission general requirements for admission may be admitted conditionally to University College and must enroll on the Huntington campus. Under the terms of the admissions policy, only a limited number of conditionally admitted students will be permitted to enroll at Marshall. For specific requirements for conditionally admitted students, see "Conditional Admission." Students who do not meet the general or conditional requirements may appeal the decision through the Admission Appeals Committee.

Required Application Materials

1. Completed application for admission.
2. A non-refundable application fee of $40.
3. An official, final transcript, including graduation date, sent directly from the student's high school to the Marshall University Office of Admissions.
4. Official college transcript sent to the Marshall University Office of Admissions directly from the college or university if a student has completed non-Marshall college course(s) while in high school or in summer school.
5. American College Test (ACT) or Scholastic Aptitude Test (SAT) scores sent directly from the testing agency. The Higher Education Policy Commission requires that all freshmen submit the American College Test (ACT) or Scholastic Aptitude Test (SAT) scores except applicants who graduated from high school five years or more ago. Students who are admitted without ACT or SAT scores by meeting other eligibility requirements should consult their academic advisors about meeting prerequisites for math and English courses. ACT or SAT test scores are used in placing students in English and mathematics, for scholarship applications, for academic counseling, for determining eligibility for certain degree programs, and in part to meet NCAA athletic eligibility requirements.[1]
6. A valid immunization record including measles and rubella vaccinations (or MMR) and all other required vaccinations or screenings. Students must provide proof of immunity before or during the first semester of enrollment or they will not be permitted to enroll in subsequent terms. Students born prior to January 1, 1957 are exempt from the measles and rubella (or MMR) immunization requirement.

Conditional Admission of Freshman Students

Marshall University offers admission to a limited number of students who do not meet freshman admission requirements. These students are admitted conditionally to University College and must complete all requirements within three semesters.

Requirements include:

- For students having Verbal ACT scores of less than 18 or SAT ERW 480, successful completion of required corequisite English course.
- Successful completion of academic support class (UNI 100 Freshman First Class).
- Completion of 18 earned hours with a 2.00 GPA (cumulative and MU) *or* 15 or more earned hours with a 3.00 or better during first semester as a conditionally admitted student.

Upon completion of the requirements, the student may transfer into any major/college for which s/he is eligible. Some majors and colleges require separate applications and have additional requirements for admission into their programs.

Provisional Admission of Freshman Students

Students who have met minimum admission requirements but who are unable to provide one or more of certain required application materials may be admitted provisionally in some instances. Freshman students may be provisionally admitted to the university for one semester only with the following minimum documentation:

1. Completed application for admission with $40 application fee;
2. Preliminary high school transcript or passing score on designated state high school equivalency diploma exam;
3. American College Test (ACT) or Scholastic Aptitude Test (SAT) exams with minimum required scores.[2]

Freshman students will be fully admitted to the university and will be eligible to register for succeeding terms when all admission requirements have been met and all required materials have been received.

A student who attends another collegiate institution during the summer session immediately following graduation from high school is admitted as an entering freshman with advanced standing.

[1] SAT (CR+M) of 900 prior to March 2016 is equivalent to an SAT Total Score of 990; an SAT (CR+M) of 770 prior to March 2016 is equivalent to an SAT Total Score of 880.

[2] Students who graduated from high school five years or more ago are not required to take the ACT or SAT exam except for admission into the College of Engineering and Computer Sciences. Students who are admitted without ACT or SAT scores by meeting other eligibility requirements should consult their academic advisors about meeting prerequisites for math and English courses.

High-School Equivalency Diploma (GED, HiSET, TASC) Recipients

A student holding a high school equivalency diploma may be admitted to Marshall University if s/he passes the TASC (Test Assessing Secondary Completion) with a score of at least 500 on each of the five subtests or passes the GED (General Education Development Test) with scores considered acceptable for admission. The HiSET exam is also accepted, and students must pass the HiSET with a total scaled score of at least 45. Applicants for admission who have held the high school equivalency diploma for at least five years subsequent to the graduation date of their high school class are not required to submit ACT or SAT scores except if applying to the College of Engineering and Computer Sciences. Applicants holding the high school equivalency diploma for fewer than five years subsequent to the graduation date of their high school class must submit ACT or SAT scores for admission. A limited number of students who do not meet high school equivalency test and ACT/SAT requirements may be admitted to University College at the discretion of the Admission Appeals Committee (see Conditional Admission). Students holding a high school equivalency diploma may not enroll at Marshall University prior to the graduation date of their high school class.

High School Equivalency Diploma Admission Requirements

1. Applicants for high school equivalency diploma admission must be beyond the age and time of their regular high school graduating class.
2. Applicants must have official high school equivalency test scores sent directly from the state testing center or state department of education.
3. Applicants who completed the high school equivalency test in the Armed Forces can have an official copy of their scores forwarded to the Office of Admissions. More information is available online at www.dantes.doded.mil (http://www.dantes.doded.mil).
4. A high school equivalency diploma recipient is admitted on the basis of obtaining high school equivalency test scores considered acceptable for admission to Marshall University. Please contact the Office of Admissions for more specific acceptable high school equivalency test score requirements. No course credit is granted for completion of a high school equivalency diploma.

Early High School Completers

If a high school student has met all high school graduation requirements by the end of the fall semester of the senior year, s/he may be provisionally admitted for the spring semester of the senior year under the following conditions:

1. All general freshman admission requirements are met;
2. High school counselor must submit a letter indicating that the student has met all high school graduation requirements but will not receive a diploma until her/his graduating class receives the diploma;
3. Registration will be permitted for one term only. Students will not be permitted to register for subsequent terms until final high school transcript with graduation date has been received.

Students who cannot provide the aforementioned documentation may apply as an Early Admission student (see Early Admission Options section). **Early High School Completers and Early Admission students are not eligible for financial aid and may not reside on campus.**

Transfer Students

Application Procedures for Transfer Students

A high school graduate or high school equivalency diploma recipient who wishes to enroll at Marshall University and who has attempted coursework from another accepted, accredited college or university is classified as a transfer student. Marshall University does not at any time or under any condition disregard college or university credits attempted or earned at accepted, accredited institutions for the purpose of admission. Any student admitted on the basis of false and/or incomplete information is subject to immediate dismissal or other disciplinary action.

General Admission Requirements

All transfer students must be eligible to return to the institution they most recently attended.

In addition, transfer students who have fewer than 30 earned semester hours must meet one of the following criteria:

- Must meet the current freshman admission standards

or

- Have earned 12 graded college-level semester hours while maintaining a 2.00 cumulative college GPA.

Transfer students who do not meet either of these requirements may appeal the decision through the Admission Appeals Committee. Transfer students admitted with a cumulative GPA below 2.00 are on academic probation and are eligible to register for a limited number of credit hours. Please contact the appropriate dean's office for specific guidelines.

Admission to Marshall University does not guarantee admission to specific academic programs. Students must meet all requirements of an academic program in order to be admitted to that program.

Required Application Materials:

1. Completed application for admission. (The application must be complete before transfer students can be considered for admission to the university.)
2. A non-refundable transfer evaluation fee of $50.
3. Official transcripts from the Registrar's Office of all accepted, accredited institutions attended must be sent directly to the Marshall Office of Admissions. (Faxed transcripts, transcripts marked "Issued to Student," transcripts issued to any third party, or transcripts submitted directly by students cannot be accepted.)
4. Transfer applicants with fewer than 30 earned semester hours must also submit an official high school transcript with graduation date.
5. American College Test (ACT) or Scholastic Aptitude Test (SAT) scores sent directly from the testing center. The Higher Education Policy Commission requires that all freshmen submit the American College Test (ACT), or Scholastic Aptitude Test (SAT) scores except applicants who graduated from high school five years or more ago. Students who are admitted without ACT or SAT scores by meeting other eligibility requirements should consult their academic advisors about meeting prerequisites for math and English courses. ACT or SAT test scores are used in placing students in English and mathematics, for awarding scholarships, for academic counseling, for determining eligibility for certain degree programs, and in part to meet NCAA athletic eligibility requirements.[1]
6. A valid immunization record including measles and rubella vaccinations (or MMR) and all other required vaccinations or screenings. Students must provide proof of immunity before or during the first semester of enrollment or they will not be permitted to enroll in subsequent terms. Students born prior to January 1, 1957 are exempt from the measles and rubella (or MMR) immunization requirement.

[1] Students who graduated from high school five years or more ago are not required to take the ACT or SAT exam except for admission into the College of Engineering and Computer Sciences. Students who are admitted without ACT or SAT scores by meeting other eligibility requirements should consult their academic advisors about meeting prerequisites for math and English courses.

Evaluation of Credit

Transfer Students from West Virginia State Colleges or Universities:

Credits and grades earned for all baccalaureate level courses at any accredited baccalaureate degree-granting institution in the West Virginia state-supported system of higher education are transferable to Marshall University.

Transfer Students from Community Colleges or Branch Colleges:

Seventy-two hours of credits and grades completed at community colleges or branch colleges may be applied toward graduation at Marshall University.

Evaluation of Transfer Credit

Transfer students should apply to Marshall University and submit their credentials at least one month before course registration to allow ample time for an evaluation of their credits.

All materials and credentials submitted to the Office of Admissions become the property of Marshall University and will not be returned or released to third parties.

Marshall University accepts all transferable coursework from accepted, accredited institutions. Coursework taken at another accepted, accredited institution transfers at the level at which it was taken. This is something important to consider since Marshall students must have a minimum number of upper division credits (300/400 level credit), determined by their college, in order to graduate. For example, if a student takes CHM 230, Organic Chemistry I, at another institution, that course will convert to CHM 355 Organic Chemistry I at Marshall; however, those credits will count as lower division (100- to 200-level credits), since the original course was taken at the 200 level.

Grades earned for coursework taken at other institutions are calculated in the overall GPA (includes courses taken at Marshall University and other institutions), but have no impact on the Marshall GPA (includes only Marshall University coursework), except for D/F repeats.

The Core Curriculum (see additional information under "Academic Information") applies to transfer students. Students who believe they may have taken coursework at other institutions that would satisfy part of the Core Curriculum should submit documentation (course syllabi, catalog descriptions) to their dean's office for review by the appropriate committee.

Appeal of Denial of Transfer Credit, or Course Equivalency Determination, or Course Substitution

Students may appeal decisions on how transfer credits are evaluated.

The MU Office of Admissions determines transferability of credits and course equivalency at the time of admission. Once admitted, if a student believes the proper equivalent credit has not been awarded, the student should request, in writing, an explanation of credit denial from the Office of Admissions. This initial step must be taken within thirty (30) days of receipt of the transfer credit evaluation or within ten (10) instructional days of the beginning of the student's matriculating term, whichever comes first. The Office of Admissions will review the

request for technical errors and issue a written response within ten (10) days.

The college in which the student's degree program is housed determines course substitutions. After receiving the transfer credit evaluation from the Office of Admissions, the student should meet with an academic advisor in the student's degree program to determine the extent to which transferred credits and course equivalencies meet specific degree requirements. At this point, the advisor may make certain additional course substitutions per the policies of the college that houses the student's degree program.

If the student is not satisfied with the determinations in Step 2 regarding course substitutions, the student may initiate a formal appeal, in writing, to the dean of the academic college in which the student is admitted. The appeal must include applicable syllabi and other supporting documents and must be submitted within thirty (30) days of the beginning of the student's matriculating term.

If a course substitution is not granted by the dean, the student may appeal the decision to the West Virginia Higher Education Policy Commission, in writing, within ten (10) days of the issuance of the dean's decision. The Commission will review the entire case, including both course equivalencies and course substitutions, and issue a recommendation to the Provost and Senior Vice President for Academic Affairs at Marshall University, who shall then render the final decision.

Provisional Admission of Transfer Students

Transfer students may be provisionally admitted to Marshall University for one semester only with the following minimum documentation:

1. Completed application for admission with $50 transfer evaluation fee;
2. Official college transcripts from all accepted, accredited colleges and universities attended. Applicants currently attending another institution may be provisionally admitted with a current, official transcript of credit earned and courses in progress, pending receipt of an official, final transcript from the current institution with all grades from the final semester of attendance.
3. To be considered for admission, transfer applicants who have earned fewer than 30 semester hours from accepted, accredited institution(s) must have an official final high school transcript with graduation date or high school equivalency test scores mailed directly to the Office of Admissions from the high school, state testing center or state department of education.
4. To be considered for admission, transfer applicants who have earned fewer than 30 semester hours from accepted, accredited institution(s) must have official ACT/SAT scores sent directly to the Office of Admissions from the respective testing agency.

Transfer students will be fully admitted to the university and will be eligible to register for succeeding terms when all requirements have been met and all required documentation has been received.

Early Admission Options

Marshall University offers a variety of early admission options. Students may apply to attend Marshall University on either a full- or part-time basis prior to graduating from high school. Early enrollment students are subject to the same policies as other Marshall University students, including academic probation and suspension policies.

Students who enroll at Marshall University prior to high school graduation are not eligible for freshman admission, financial aid, or on-campus housing. For admission to Marshall as an Early Admission student, applicants must meet the requirements listed below. Students with an exceptional talent in a discipline such as music may request permission to enroll in coursework in that discipline.

Please note that students who have taken college courses during high school under any of these options and plan to later apply for admission to Marshall University must meet all Marshall University admission standards described elsewhere in this catalog.

Early Admission to Marshall University: Prior to the Junior Year of High School

- Be currently enrolled in high school or a home-school program.
- Completed admission application.
- [ACT Composite = 24, SAT Total Score = 1160]. If the ACT or SAT has not been taken, a score at the 90th percentile or higher on another nationally normed standardized test that provides evidence of the ability to succeed at the college level is required.
- A current high school transcript reflecting a cumulative minimum GPA of 3.00 on a 4.00 scale.
- One letter of recommendation from a counselor or principal.
- Maintain a 2.00 GPA in all college courses.
- To take English or math courses, a student must have a qualifying ACT / SAT score in the subject area.

Early Admission: Junior or Senior Year of High School

- Be currently enrolled in high school or a home-school program.
- Completed admission application.
- A current high school transcript reflecting a cumulative minimum GPA of 3.00 on a 4.00 scale.
- One letter of recommendation from a counselor or principal.
- Maintain a 2.00 GPA in all college courses.
- To take English or math courses, a student must have a qualifying ACT / SAT score in the subject area.

Early Admission: International

International students applying for early admission must meet all early admission requirements listed above. If attending a non-U.S. school, all credentials must be in original language with a certified English translation. In addition, international early admission applicants must meet the English proficiency requirement. Please see Proof of English Language Proficiency in the International Students section that follows.

Resident Aliens

Resident Aliens must submit a copy of a valid resident alien card and meet all relevant freshman or transfer student admission requirements.

International Students

Proof of English Language Proficiency

All applicants, regardless of citizenship, must provide proof of English Language Proficiency to be considered for admission to Marshall University. Minimum standardized exam scores for undergraduate English proficiency are listed below. If one or more of the exemption

criteria is met, applicants may be considered exempt from providing standardized exam scores for proof of English proficiency.

Exam Requirements
-TOEFL iBT: 61
-IELTS: 6.0
-Duolingo: 90
-ACT: 18 English/Reading
-SAT: 480 ERW
-Cambridge English: 169
-MELAB: 79%
-PTEA: 50

Exam Exemptions
-Transfer credit equivalent to ENG 101 Beginning Composition from an accepted, accredited institution with a grade of *C* or better.
-Successful completion of an approved ESL program (i.e., Marshall University English Language Institute).
-Completion of the equivalent to a U.S. high school diploma or U.S. post-secondary degree from an accepted, accredited institution in an approved country where the primary language is English. To view the current list of approved countries, please visit: https://www.marshall.edu/admissions/approved-list-of-countries-for-english-proficiency-exemption/.

Students who do not meet minimum English proficiency requirements may apply to the Marshall University English Language Institute (see English Language Institute section).

Proof of Financial Support

All admitted students who need to obtain Form I-20 or DS-2019 to study in the United States will receive an e-mail from the Office of International Student Services with a list of items needed to issue the Form I-20 or DS-2019, which includes proof that they have secured finances to support their study and living costs for one year (12 months) or the duration of the program, whichever is shortest. Proof of Financial Support is required for each program of study and must be no older than 6 months. To provide Proof of Financial Support, students must submit the following:

- Financial Certification Form
- Affidavit of Support (if personally or individually sponsored)
- Supporting financial documentation for all sources of funding (i.e., bank statement(s), scholarship award letter(s), etc.)

For additional information, including minimum funding amounts, please visit: https://www.marshall.edu/iss/financialinfo/.

Proof of Health Insurance

All F-1 and J-1 international students are required to provide proof of health insurance prior to registration for each term at Marshall University. For more information, please visit http://www.marshall.edu/iss (http://www.marshall.edu/iss/).

International Freshmen

Application Procedures for International Freshmen and International Non-Transfer Students

High School Graduates

General Admission Requirements:

1. Equivalence of a U.S. high school diploma.
2. An Overall Grade Point Average of at least 2.00 on a 4.00 scale.
3. Proof of English proficiency (see Proof of English Proficiency section).

*ACT/SAT scores may be required for admission to certain programs.

Required Application Materials:

1. Completed application for admission including the required international application fee.
2. High school record:
   - *Non-U.S. high school* – official, final secondary transcripts and proof of secondary school completion, or examination results (if completing secondary school in a final examination school system). Credentials must be in the original language of issue, along with a certified English translation, and must be submitted directly to the Marshall University Office of Admissions by the secondary school records office or official, or directly by the examination board for external examinations.
   - *U.S. high school* – official, final transcript, including graduation date, sent directly from the student's high school to the Marshall University Office of Admissions.
3. College record:
   - *Non-U.S. college* – official college transcript of courses taken while in high school or as part of high school completion, including all courses taken and grades earned, in the original language of issue, along with a certified English translation, sent directly to the Marshall University Office of Admissions by the designated school official at the school you attended.
   - *U.S. college* – official college transcript sent to the Marshall University Office of Admissions directly from the college or university if a student has enrolled in a non-Marshall college course while in high school or in summer school.
4. A valid immunization record including measles and rubella vaccinations (or MMR) and all other required vaccinations or screenings. Students must provide proof of immunity before or during the first semester of enrollment or they will not be permitted to enroll in subsequent terms. Students born prior to January 1, 1957 are exempt from the measles and rubella (or MMR) immunization requirement.
5. Proof of English proficiency (see Proof of English Proficiency section).

International Transfer Students

Application Procedures for Transfer Students

A high school graduate or a high school equivalency diploma recipient who wishes to enroll at Marshall University and who has attempted coursework from another accepted, accredited college or university is classified as a transfer student. Marshall University does not at any time or under any condition disregard college or university credits attempted or earned at accepted, accredited institutions for the purpose of admission. Any student admitted on the basis of false and/or incomplete information is subject to immediate dismissal or other disciplinary action.

General Admission Requirements:

All transfer students must be eligible to return to the institution they most recently attended while maintaining a 2.00 transfer GPA.

In addition, transfer students who have fewer than 30 earned semester hours must meet the international freshman admission standards (see International Freshmen section).

Admission to Marshall University does not guarantee admission to specific academic programs. Students must meet all requirements of an academic program in order to be admitted to that program.

Required Application Materials:

1. Completed undergraduate application for international admission.
2. A non-refundable international application fee and nonrefundable transfer evaluation fee.
3. College records:
   - *Non-U.S. college* – official college transcripts(s) of all college coursework taken after high school graduation and for college coursework taken in high school or as part of high school completion in the original language of issue, along with a certified translation in English, sent directly to the Marshall University Office of Admissions by the designated school official at the institution you attended.
   - *U.S. college* – official transcripts from the Registrar's Office of all accepted, accredited institutions attended must be sent directly to the Marshall Office of Admissions. (Faxed transcripts, transcripts marked "Issued to Student," transcripts issued to any third party, or transcripts submitted directly by students cannot be accepted.)
4. High school record (if student has earned fewer than 30 college-level semester hours):
   - *Non-U.S. high school* – official, final secondary transcripts and proof of secondary school completion, or examination results (if completing secondary school in a final examination school system). Credentials must be in the original language of issue, along with a certified English translation, and must be submitted directly to the Marshall University Office of Admissions by the secondary school records office or official, or directly by the examination board for external examinations.
   - *U.S. high school* – official, final transcript, including graduation date, sent directly from the student's high school to the Marshall University Office of Admissions.
5. A valid immunization record including measles and rubella vaccinations (or MMR) and all other required vaccinations or screenings. Students must provide proof of immunity before or during the first semester of enrollment or they will not be permitted to enroll in subsequent terms. Students born prior to January 1, 1957 are exempt from the measles and rubella (or MMR) immunization requirement.
6. Proof of English proficiency (see Proof of English Proficiency section).

College Graduates

Application Procedures for College Graduates

Second Baccalaureate Degree

An applicant who wishes to pursue a second baccalaureate degree after completion of the first degree may earn another baccalaureate degree by:

- meeting requirements for admission as a transfer student (see Transfer Students section);
- completing all of the major and minor requirements for the desired degree;
- completing a minimum of 30 additional hours beyond the 120 minimum hours required for the first baccalaureate degree;
- meeting the minimum residency requirement of 24 credit hours.

Special Students

Applicants who hold a baccalaureate degree from an accepted, accredited institution but do not wish to pursue a second baccalaureate degree may enroll for undergraduate courses (for prerequisites, certification, etc.) by submitting:

- a completed application with $40 application fee;
- official college transcript that shows receipt of an earned baccalaureate degree. Official transcript must be sent by the registrar's office of the awarding institution directly to the Office of Admissions. Special students cannot earn a degree, will not be awarded transfer credit, and are not eligible for financial aid.

Transient (Visiting) Students

Application Procedures for Transient (Visiting) Students

Students Visiting Marshall University from Other Institutions

Students who are enrolled in degree programs at other accepted, accredited institutions and would like to take courses at Marshall University for transfer credit at their home institutions can be admitted as transient students. Transient students must complete a new application for each term they wish to attend Marshall University. Applicants must have been enrolled at their home institutions within the previous academic year, and can enroll at Marshall University for no more than two consecutive semesters.

To be admitted as a transient, a student must provide:

- A completed application with the $40 application fee;
- A letter of good academic standing sent to the Marshall University Office of Admissions from the registrar's office of the home institution.

Marshall University Students Who Wish to Visit Other Institutions

Current degree-seeking Marshall University students who wish to enroll at another institution as a visiting student must complete the "Transient Course Approval Form" (available online at www.marshall.edu/admissions/forms (http://www.marshall.edu/admissions/forms/)) prior to enrolling at another institution. Students who fail to complete this online form prior to attending another institution may be required to apply as a transfer student and pay the $50 transfer evaluation fee.

A student who completes a "Transient Course Approval Form" must submit a transcript from the host institution to the MU Office of Admissions for each semester attended. If the student did not attend the host institution as requested, that institution must provide a statement of non-enrollment verifying that the student did not enroll at the host institution. The student will not be permitted to register for subsequent terms at Marshall University until either an official transcript or a statement of non-enrollment is received by the Office of Admissions.

Marshall University Students Enrolled in Study Abroad Programs

Students enrolled in Marshall University's Study Abroad Program must submit the Study Abroad approval form prior to enrolling at another institution. Students enrolled in the Study Abroad Program must meet the same requirements as all Marshall University students who wish to enroll at other institutions.

Part-Time Students

Part-time students are those enrolled for fewer than twelve hours a semester. They must meet all requirements relative to the admission category for which they are applying (Freshmen, High-School Equivalency Completers, Home-School, Early High School Graduates, Transfer, Early Entry, Dual Credit, International, College Graduates, Transient, and Non-Degree) regardless of the number of hours for which they intend to enroll.

Non-Degree Students

Applicants who are not pursuing any type of degree may enroll as non-degree students if they have been out of high school for more than five years and have no prior college work, or are 65 or older and wish to participate in the reduced tuition program for persons 65 and over as set forth in MU Board of Governors Policy AA-3. A student cannot earn more than 30 total hours while classified as non-degree, unless enrolled in the reduced tuition program. Credit taken as a non-degree student will not necessarily transfer in all degree programs. Non-degree students are not eligible to receive financial aid.

Applicants who wish to apply as regular non-degree seeking must submit a completed application with all appropriate fees. A regular non-degree student who decides to become degree-seeking must re-apply as the appropriate student type and provide all required documentation to be considered for admission. Before registering, regular non-degree students must obtain the permission of the dean of the college in which their intended course is offered.

Credit Options

Advanced Placement (AP) Examination

Marshall University recognizes certain examinations of the College Board Advanced Placement Program. Students who participate in the AP program and wish to have their scores evaluated for credit should have their official scores sent to Marshall University by selecting Marshall's code 5396 on the exam. To be evaluated for credit, official AP score reports must be sent directly to the Marshall University Office of Admissions from the College Board. AP examinations are prepared by the College Board, and the papers are graded by readers of the Educational Testing Service, Princeton, New Jersey 08540. Students cannot receive credit for a score below 3 on any exam. Students who do receive credit will be assigned the grade of CR which is not calculated into the GPA. All AP credit is counted as lower-division credit. See the following for required scores on specific exams.

AP Exams	Required Score	Marshall Equivalent	Credit Awarded
Art (Studio) Drawing	3	ART 217	3
Art 2-D Design	3	ART 214	3
Art 3-D Design	3	ART 215	3
Art History	3	ART 112 or ART 101	3
Biology	3	BSC 104, BSC 104L, BSC 105, BSC 105L	8
Biology	4	BSC 120, BSC 120L, BSC 121, BSC 121L	8
Chemistry	3	CHM 205	3
Chemistry	4	CHM 211, CHM 217	5
Chemistry	5	CHM 211, CHM 212, CHM 217, CHM 218	10
Latin	3	LAT 101 and LAT 102	6
Computer Science A	3	IST 264	3
Computer Science Principles	3	CS 105	3
Microeconomics	3	ECN 250	3
Macroeconomics	3	ECN 253	3
English Composition & Literature	3	ENG 231	3
English Composition & Literature	4	ENG 231 and ENG 213	6
English Language & Composition	3	ENG 101	3
English Language & Composition	4	ENG 101 and ENG 201	6
Environmental Science	3	Elective	4
Foreign Language, French Language	3	FRN 101, FRN 102	6
Foreign Language, French Language	4	FRN 101, FRN 102, FRN 203	9
Foreign Language, German Language	3	GER 101, GER 102	6
Foreign Language, German Language	4	GER 101, GER 102, GER 203	9
Foreign Language, Japanese Language and Culture	3	JPN 101, JPN 102	6

Foreign Language, Japanese Language and Culture	4	JPN 101, JPN 102, JPN 203	9
Foreign Language, Spanish Language	3	SPN 101, SPN 102	6
Foreign Language, Spanish Language	4	SPN 101, SPN 102, SPN 203	9
Foreign Language, Spanish Literature	3	Elective	6
Human Geography	3	GEO 100	3
Government and Politics, American	3	PSC 104	3
Government and Politics, Comparative	3	PSC 207	3
History, American	3	HST 230 and HST 231	6
History, European	3	HST 102 and HST 220	6
History, World	3	HST 101, HST 102, HST 103 (two of the three)	6
Mathematics, Calculus AB	3	MTH 132	5
Mathematics, Calculus AB	4	MTH 229	5
Mathematics, Calculus BC	3	MTH 229	5
Mathematics, Calculus BC	4	MTH 229, MTH 230	9
Music Theory	3	MUS 101	3
Music Theory	4	MUS 101, MUS 111	5
Music Theory	5	MUS 111, MUS 112, MUS 113	6
Physics I	3	PHY 201	3
Physics I	4	PHY 201, PHY 202	4
Physics II	3	PHY 203	3
Physics II	4	PHY 203, PHY 204	4
Physics C, Mechanics	3	PHY 211	4
Physics C, Mechanics	4	PHY 211, PHY 202	5
Physics C, Electricity & Magnetism	3	PHY 213	4
Physics C, Electricity & Magnetism	4	PHY 213, PHY 204	5
Psychology	3	PSY 201	3
Statistics	3	STA 225, MGT 218, or PSY 223	3

International Baccalaureate

Marshall University recognizes examinations taken as part of the International Baccalaureate (IB) Program. Students who participate in the IB Program should have their scores sent directly to Marshall University from the IB testing program. Students will not receive credit for a score below 4 on any IB exam. All IB credit is counted as lower-division credit.

Following are the IB exams that will be considered for credit at Marshall University. Students will be awarded course equivalencies based on the score they are able to attain on the IB exam. Only Higher Level exams will be considered for credit.

IB Exams	4	5	6	7
Advanced Math	MTH 130	MTH 130	MTH 229, MTH 130	MTH 229, MTH 130
Art/Design	ART 112	ART 112	ART 112, ART 214	ART 112, ART 214
Biology	BSC 104, BSC 104L	BSC 104, BSC 104L	BSC 120, BSC 120L or 120LH, BSC 121, BSC 121L	BSC 120, BSC 120L or 120LH, BSC 121, BSC 121L
Business	MGT 100	MGT 100	MGT 100	MGT 100
Chemistry	CHM 205, CHM 217	CHM 205, CHM 217	CHM 205, CHM 217, CHM 218	CHM 205, CHM 217, CHM 218
Classical Latin	LAT 101	LAT 101	LAT 101, LAT 102	LAT 101, LAT 102
Computing Science	IST 264	IST 264	IST 264	IST 264
Economics	ECN 250	ECN 250	ECN 250, ECN 253	ECN 250, ECN 253
English	ENG 101	ENG 101	ENG 101	ENG 101
French	FRN 101	FRN 101	FRN 101, FRN 102	FRN 101, FRN 102
Geography	GEO 100	GEO 100	GEO 100, GEO 3 Hrs Unclassified (lower division)	GEO 100, GEO 3 Hrs Unclassified (lower division)
German	GER 101	GER 101	GER 101, GER 102	GER 101, GER 102
History	HST 103	HST 103	HST 103	HST 103
History of the Americas	N/A	HST 230, HST 231	HST 230, HST 231	HST 230, HST 231
Islamic History	HST 260	HST 260	HST 260	HST 260

Music	MUS 142	MUS 142	MUS 142, MUS 111	MUS 142, MUS 111
Physics	N/A	PHY 201, PHY 202	PHY 201, PHY 202, PHY 203, PHY 204	PHY 201, PHY 202, PHY 203, PHY 204
Psychology	PSY 201	PSY 201	PSY 201	PSY 201
Russian	MDL Unclassified 3 hrs. (lower div.)	MDL Unclassified 3 hrs. (lower div.)	MDL Unclassified 6 hrs. (lower div.)	MDL Unclassified 6 hrs. (lower div.)
Social Anthropology	ANT 201	ANT 201	ANT 201	ANT 201
Spanish	SPN 101	SPN 101	SPN 101, SPN 102	SPN 101, SPN 102
Theater Arts	THE 112	THE 112	THE 112, THE 220	THE 112, THE 220

College Level Examination Program

The College Level Examination Program (CLEP) enables students who can demonstrate knowledge and/or proficiency in certain fields to reduce the cost in time and money for pursuing a college education by successfully completing CLEP tests for credit.

Intensive reading in a particular field, on-the-job experience, or adult education may prepare a student to earn college credit through CLEP tests. This would reduce the total amount of coursework needed to complete degree programs. Scores on the test may also validate educational experience obtained at a non-accredited institution or through noncredit college courses. Credit completed through CLEP does not count as a part of the 18-hour limit under the Credit/Non-Credit Option. Credit earned through CLEP exams does not automatically satisfy specific academic requirements. Since colleges and departments have different curriculum requirements and may use the scores in different ways, students should consult first with their department or division chairs or their deans' offices regarding how the examinations would be used. Please call 304-696-2330 for more information or to schedule a CLEP exam.

On the following list are the CLEP exams that will be considered for credit:

CLEP Exams	Required Score	Marshall Equivalent	Credit Awarded
Algebra, College	50	MTH 130	3
Precalculus	50	MTH 132	5
Am. Government	50	PSC 104	3
Biology, General	50	BSC 104-BSC 105, BSC 104L, BSC 105L	8
Calculus w/ elem. Functions	50	MTH 229	5
Chemistry, General	50	CHM 211-CHM 212	6
Info Systems and computer applications	50	IST 264	3
Macroeconomics, Principles of	50	ECN 253	3
Management, Principles of	50	MGT 320	3
Marketing, Principles of	50	MKT 340	3
Microeconomics, Principles of	50	ECN 250	3
Psychology, Introductory	50	PSY 201	3
Sociology, Introductory	50	SOC 200	3
College Mathematics	50	MTH 121, MTH 160	8
Humanities	50	Unclassified elective	6
Natural Science	50	Unclassified elective	6
Social Sciences and History	50	Unclassified elective	6

Military Experience and Training Credit

Marshall University recognizes and awards college credit for military training and experience as outlined by American Council on Education recommendations. To receive credit, current students must have earned at least 12 semester hours at Marshall University with a cumulative GPA of 2.00 or higher. Qualifying veterans should request a copy of their Joint Services Transcript (JST) or Community College of the Air Force/Air University transcript(s) be mailed directly to the Office of Admissions from the issuing agency.

Army Commission Credit

Veterans should contact the Military Science Department if they are interested in receiving credit for military service and applying it toward receiving a commission as an Army officer.

Service Members Opportunity Colleges

Marshall University is an institutional member of Service Members Opportunity Colleges (SOC), a group of over 1500 colleges and universities providing postsecondary education to members of the military throughout the world. As an SOC member, Marshall recognizes the unique nature of the military and has committed itself to easing the transfer of relevant course credits, providing flexible academic residency requirements, and crediting learning from appropriate military training and experiences.

United States Marine Corps Platoon Leaders Class

Equivalent credit in Military Science may be awarded for successful completion of the Marine Corps Platoon Leaders Class. Students who have completed this class may apply at the Marshall University Department of Military Science Office for possible awarding of credit. For additional information on this class, write to:

United States Marine Corps
Officer Selection Office
641 Corporate Drive, Suite 104
Lexington, Kentucky 40503
Phone: (606) 223-2446.

West Virginia Residency

Requests for changes in residency status for new students will be evaluated by the Office of Admissions provided a completed

residency application with all required supporting documentation is submitted by the end of the first week of the term of admission. Contact admissions@marshall.edu for more information. Thereafter, all requests for changes in residency status for currently enrolled students will be evaluated by the Office of the Registrar for subsequent terms. Contact registrar@marshall.edu for more information.

Requests for changes in residency status for new students will be evaluated by the Office of Admissions provided a completed residency application with all required supporting documentation is submitted by the end of the first week of the term of admission. Contact admissions@marshall.edu for more information. Thereafter, all requests for changes in residency status for currently enrolled students will be evaluated by the Office of the Registrar for subsequent terms. Contact registrar@marshall.edu for more information.

TITLE 133
PROCEDURAL RULE
WEST VIRGINIA HIGHER EDUCATION POLICY COMMISSION

SERIES 25
RESIDENCY CLASSIFICATION FOR ADMISSION AND FEE PURPOSES

1.1. Scope. -- Rule regarding residency classification of students for admission and fee purposes. 1.2. Authority. -- West Virginia Code §§18B-10 and 18B-2B-6.
1.3. Filing Date. – March 11, 2019.
1.4. Effective Date. – April 11, 2019.
1.5. Repeal of Former Rule. -- Repeals and replaces Title 133, Series 25 which had an effective date of June 9, 2017.

§133-25-2. Classification for Admission and Fee Purposes.

2.1. Students enrolling in a West Virginia public institution of higher education shall be assigned a residency status for admission, tuition, and fee purposes by the institutional officer designated by the President. In determining residency classification, the issue is essentially one of domicile. In general, the domicile of a person is that person's true, fixed, permanent home and place of habitation. The decision shall be based upon information furnished by the student and all other relevant information. The designated officer is authorized to require such written documents, affidavits, verifications, or other evidence as is deemed necessary to establish the domicile of a student. The burden of establishing domicile for admission, tuition, and fee purposes is upon the student.

2.2. If there is a question as to domicile, the matter must be brought to the attention of the designated officer at least two (2) weeks prior to the deadline for the payment of tuition and fees. Any student found to have made a false or misleading statement concerning domicile shall be subject to institutional disciplinary action and will be charged the nonresident fees for each academic term theretofore attended.

2.3. The previous determination of a student's domiciliary status by one institution is not conclusive or binding when subsequently considered by another institution; however, assuming no change of facts, the prior judgment should be given strong consideration in the interest of consistency. Out-of-state students being assessed resident tuition and fees as a result of a reciprocity agreement may not transfer said reciprocity status to another public institution in West Virginia.

§133-25-3. Residence Determined by Domicile.

3.1. Domicile within the state means adoption of the state as the fixed permanent home and involves personal presence within the state with no intent on the part of the applicant or, in the case of a dependent student, the applicant's parent(s) to return to another state or country. Residing with relatives (other than parent(s)/legal guardian) does not, in and of itself, cause the student to attain domicile in this State for admission or fee payment purposes. West Virginia domicile may be established upon the completion of at least twelve (12) months of continued presence within the state prior to the date of registration: Provided, That such twelve (12) months' presence is not primarily for the purpose of attendance at any institution of higher education in West Virginia. Establishment of West Virginia domicile with less than twelve (12) months' presence prior to the date of registration must be supported by evidence of positive and unequivocal action. In determining domicile, institutional officials should give consideration to such factors as the ownership or lease of a permanently occupied home in West Virginia, full-time employment within the state, paying West Virginia property tax, filing West Virginia income tax returns, registering of motor vehicles in West Virginia, possessing a valid West Virginia driver's license, and marriage to a person already domiciled in West Virginia. Proof of a number of these actions shall be considered only as evidence which may be used in determining whether or not a domicile has been established. Factors militating against the establishment of West Virginia domicile might include such considerations as the student not being self-supporting, being claimed as a dependent on federal or state income tax returns or on the parents' health insurance policy if the parents reside out of state, receiving financial assistance from state student aid programs in other states, and leaving the state when school is not in session.

§133-25-4. Dependency Status.

4.1. A dependent student is one (1) who is listed as a dependent on the federal or state income tax return of his/her parent(s) or legal guardian or who receives major financial support from that person. Such a student maintains the same domicile as that of the parent(s) or legal guardian. In the event the parents are divorced or legally separated, the dependent student takes the domicile of the parent with whom he/she lives or to whom he/she has been assigned by court order. However, a dependent student who enrolls and is properly classified as an in-state student maintains that classification as long as the enrollment is continuous and that student does not attain independence and establish domicile in another state.

4.2. A nonresident student who becomes independent while a student at an institution of higher education in West Virginia does not, by reason of such independence alone, attain domicile in this state for admission or fee payment purposes.

§133-25-5. Change of Residence.

5.1. A person who has been classified as an out-of-state student and who seeks resident status in West Virginia must assume the burden of providing conclusive evidence that he/she has established domicile in West Virginia with the intention of making the permanent home in this State. The intent to remain indefinitely in West Virginia is evidenced not only by a person's statements, but also by that person's actions. In making a determination regarding a request for change in residency status, the designated institutional officer shall consider those actions referenced in §133-25-3 of these rules. The change in classification, if deemed to be warranted, shall be effective for the academic term or semester next following the date of the application for reclassification.

§133-25-6. Military

6.1. An individual who is on full-time active military service in another state or a foreign country or an employee of the federal government shall be classified as an in-state student for the purpose of payment of tuition and fees: Provided, That the person established a domicile in West Virginia prior to entrance into federal service, entered the federal service from West Virginia, and has at no time while in federal service claimed or established a domicile in another state. Sworn statements attesting to these conditions may be required. The spouse and dependent children of such individuals shall also be classified as in-state students for tuition and fee purposes.

6.2. Persons assigned to full-time active military service in West Virginia and residing in the state shall be classified as in-state students for tuition and fee purposes. The spouse and dependent children of such individuals shall also be classified as in-state students for tuition and fee purposes.

6.3. Any student living in West Virginia and receiving education or vocational rehabilitation benefits from the U.S. Department of Veterans Affairs shall be charged in-state tuition and fees to attend a West Virginia public institution of higher education so long as such student is considered a "covered individual" as described in 38 U.S.C. §3679, as in effect at any time.

§133-25-7. Aliens.

7.1. Students who meet the domiciliary requirements noted in Sections 3, 4, and 5 of this policy, and who are U.S. Permanent Resident Aliens, Political Asylees or Political Refugees, or who hold an A, E, G, H, I, L, O, P, R, TD, TN, U, or V visa, may apply to be reviewed for in-state residency for tuition purposes.

7.2. Students who hold B, C, D, F, J, K, M, or Q visas are not eligible for establishing in-state residency for tuition purposes.

7.3. Students who meet the domiciliary requirements and who are the beneficiary of a pending I-485 application to adjust status to permanent resident may apply to be reviewed for in-state residency for tuition purposes.

§133-25-8. Former Domicile.

8.1. A person who was formerly domiciled in the State of West Virginia and who would have been eligible for an in-state residency classification at the time of his/her departure from the state may be immediately eligible for classification as a West Virginia resident provided such person returns to West Virginia within a one (1) year period of time and satisfies the conditions of §133-25-3 of these rules, regarding proof of domicile and intent to remain permanently in West Virginia.

§133-25-9. Appeal Process.

9.1. Each institution shall establish procedures which provide opportunities for students to appeal residency classification decisions with which they disagree. The decisions of the designated institutional official charged with the determination of residency classification may be appealed in accordance with appropriate procedures established by the president of the institution. At a minimum, such procedures shall provide that:

9.1.a. An institutional committee on residency appeals will be established to receive and act on appeals of residency decisions made by the designated institutional official charged with making residency determinations.

9.1.a.1. The institutional committee on residency shall be comprised of members of the institutional community, including faculty and at least three, in any event, an odd number. The student representative(s) shall be appointed by the president of the institutional student government association while the faculty representative(s) shall be selected by the campus-wide representative faculty organization.

9.1.a.2. The student contesting a residency decision shall be given the opportunity to appear before the institutional committee on residency appeals. If the appellant cannot appear when the committee convenes a meeting, the appellant has the option of allowing committee members to make a decision on the basis of the written materials pertaining to the appeal or waiting until the next committee meeting.

9.1.b. The residency appeal procedures will include provisions for appeal of the decision of the institutional committee on residency appeals to the president of the institution.

9.1.c. Residency appeals shall end at the institutional level.

English Language Institute

One John Marshall Drive
Huntington, WV 25755, USA
1-304-696-4686
E-mail: eli@marshall.edu
Website: https://www.marshall.edu/eli/

The English Language Institute prepares students to successfully complete a degree program at Marshall University. Our classes provide students with the opportunity to learn academic skills in three integrated courses (Reading-Vocabulary, Grammar-Writing, and Speaking-Listening) and a Special Topic course. Four levels of instruction are offered across 16-week terms in fall and spring, and 12 weeks in summer. Students receive a minimum of 20 hours of classroom instruction per week. Successful completion of Academic Preparatory I fulfills the English language proficiency requirement for admission for Marshall University undergraduate programs.

Financial Information: Fees, Assistance, and Scholarships

Bursar's Office
1-304-696-6620
bursar@marshall.edu
www.marshall.edu/bursar (http://www.marshall.edu/bursar/)

University Expenses: A General Overview

Basic university expenses fall into three categories:

- tuition and fees,
- housing and meals,
- incidental or personal expenses.

Apart from unusual financial obligations, students living on campus in 2021-2022 can expect estimated annual expenses at Marshall University to range from about $24,298 to $35,852, including personal expenses.

The following is a table of estimated costs for the 2021-2022 academic year (Fall and Spring semesters), based on a normal undergraduate load of 15 credits per semester.

Note: A full-time student carries at least 12 credit hours per semester.

Expense	In-State	Metro[1]	Out-of-State
Base Tuition & Fees	$8,552	$14,636	$19,606
Double-Occupancy housing	$7,054	$7,054	$7,054
Board	$5,192	$5,192	$5,192
Subtotals	$**20,798**	$**26,882**	$**31,852**
Incidental and personal: $3,500 to $4,000, depending upon individual needs.			

[1] Metro Fee is applicable to students whose residence is as follows:
- in Ohio: Gallia, Jackson, Lawrence, Meigs, and Scioto Counties
- in Kentucky: Boyd, Carter, Elliott, Floyd, Greenup, Johnson, Lawrence, Martin and Pike Counties

Note: Most colleges and/or programs have specific additional fees. For a more accurate total of tuition and fees, view the fulll listing at www.marshall.edu/tuition (http://www.marshall.edu/tuition/).

Warning: Do not calculate your expenditures based solely on these figures. They apply only to the 2021-2022 academic year. Actual costs for the next academic year should be available by July 1 each year. For more information, please contact the Bursar's Office at 304-696-6620.

Tuition & Fees: Specific Information

Tuition and fee costs are based on the college in which your major is housed and the specific program in which you are enrolled. For a complete schedule of tuition and related fees for the current year, please visit www.marshall.edu/tuition (http://www.marshall.edu/tuition/).

The university and its governing board reserve the right to change fees and rates without prior notice. Fee assessments are calculated on student level, not course level.

Please note: All fee listings in the fee section of this catalog show the rates authorized and in effect for the fall semester of the 2021-2022 academic year.

Tuition & Enrollment Fees

Undergraduate Tuition and Fees

Regular Semester - Fall 2021 - Full-Time Student

Tuition	Resident Rates	Metro Rates[1]	Non-Resident Rates
Base Tuition and Fees	$**4,276.00**	$**7,298.00**	$**9,683.00**
Regents Bachelor of Arts	$**4,276.00**	$**7,298.00**	$**9,683.00**
University College	$**4,276.00**	$**7,298.00**	$**9,683.00**
College Program Fees			
College of Arts and Media			
Fine Arts Programs	330.00	410.00	410.00
Journalism Program	110.00	193.00	193.00
College of Business	160.00	265.00	265.00
College of Education and Professional Development	200.00	200.00	200.00
College of Health Professions			
Clinical Lab Sciences, Communication Disorders, and Dietetics Programs	310.00	570.00	570.00
Kinesiology Programs	310.00	570.00	570.00
Nursing Programs	465.00	720.00	720.00
All Others	210.00	470.00	470.00
College of Engineering and Computer Sciences	560.00	865.00	865.00
College of Liberal Arts	105.00	105.00	105.00
College of Science	175.00	220.00	220.00

[1] Metro Fee is applicable to students whose residence is as follows:
- in Ohio: Gallia, Jackson, Lawrence, Meigs, and Scioto Counties
- in Kentucky: Boyd, Carter, Elliott, Floyd, Greenup, Johnson, Lawrence, Martin and Pike Counties

Special Student Fees

Fee	Amount
Application Fees (non-refundable)	
Undergraduate	40.00

Undergraduate Readmission	25.00
International Application Fee	150.00
Transfer Evaluation Fee	50.00
School of Nursing	30.00
CLEP/DANTES Testing	25.00
Course-Specific/Laboratory Fees:	
COHP-SOK - SCUBA Fee	200.00
Distance Tuition - Undergraduate (per credit hour)	268.50
Distance Tuition - Undergraduate (per semester)	3220.00
E-Delivery Course Fee (per credit hour)	40.00
Electronic Course Fee - Undergraduate/WV Rocks (per credit hour)	250.00
Enrollment Deposits	
Undergraduate	100.00
International	500.00
Graduation Fees[1]:	
Associate Degree	50.00
Baccalaureate Degree	50.00
Certificate Fee	15.00
Diploma Replacement	50.00
Health Professions	
Non-Major Course Fee (per 1-hour course)	663.75
Non-Major Course Fee (per 2-hour course)	1,327.50
Non-Major Course Fee (per 3-hour course)	1,991.00
Non-Major Course Fee (per 4-hour course)	2,655.00
Housing and Residence Life Fees:	
Improper Check-out Fee[1]	50.00
Mail Box Re-Key (per lock)	30.00
Reservation Deposit	200.00
Room Re-Key (per lock)	50.00
International Student Fee	100.00
Intensive English Program (Undergraduate, per semester)	4,500.00
Late Payment Fee[1]	25.00
Meal Card/ID Card Replacement	20.00
Pharmacy - Matriculation Fee (Annual, Year 1 only)	270.00
Pharmacy - Progression Fee (Annual)	280.00
Pharmacy - Simulation Fee (Years 1-3)	350.00
Pharmacy - Practice Readiness Fee (Years 2-4)	390.00
Pharmacy - iPad Fee (Years 1-2)	250.00
Pharmacy - iPad Fee (Year 3)	350.00
Regents BA Degree Evaluation	300.00
Regents BA Posting Fee (per credit hour awarded)	10.00
Reinstatement Fee – Course Schedule[1]	25.00
Returned Check Fee	25.00
Revalidation of Credit Fee (per hour)	25.00
Senior Citizens Course Fee - Series 67	50.00
Student Success Fee	60.00
Study Abroad Fee (Registration Fee - per program)	100.00
Study Abroad Application/ Advising/Shipping Fee	150.00
Transcript - Paper	10.00
Transcript - Electronic	12.00
University College - Placement Testing Fee	35.00

[1] Non-refundable.

Room and Meals

Residence Halls and Food Service Plans

The Department of Housing and Residence Life provides on-campus living space for approximately 2,500 students. Individual residence halls will accommodate between 120 and 500 students in single and double occupancy rooms, and suite-style rooms. All halls are located within walking distance of academic buildings and downtown Huntington. There is 24-hour security in every residence hall. Every student living on campus has a meal plan, a room with WIFI and cable television. Each hall is managed by an Area Coordinator with a Resident Advisor on each floor who provides the students with the best possible living and learning environment and resources.

Marshall University requires all full-time freshman and sophomore students to live on campus. Exceptions are granted to those living within a 50-mile radius that live at home with a parent or legal guardian; individuals 21 years of age; those who are married; or those who have been high school graduates for more than two years. In order to be considered for release from the residency requirement, a release request and supporting documentation must be submitted to the Department of Housing and Residence Life by

- July 1 (Fall semester) or
- November 15 (Spring semester).

Semester Fees (16 weeks)

Rates are subject to change.

Residence Halls

Description	Amount
Double Occupancy	
First-Year Residence Halls	$3,527.00
Twin Towers	$2,862.00
Buskirk	$2,862.00
Single Room Suite	
Marshall Commons: Gibson, Haymaker, Wellman, Willis	$4,218.00

Double Room Suite	
Marshall Commons: Gibson, Haymaker, Wellman, Willis	$3,336.00

Board Rates: for more details visit https://www.marshall.edu/housing/residence-hall-info/rates/

Description	Amount
10 Meals per Week w/ $500 Flex and 10 Anytime Meals	$1,956.00
10 Meals per Week w/ $700 Flex and 20 Anytime Meals	$2,154.00
10 Meals per week w/ $935 Flex	$2,299.00
14 Meals per Week w/ 500 Flex and 10 Anytime Meals	$2,165.00
14 Meals per Week w/ $700 Flex and 20 Anytime Meals	$2,451.00
14 Meals per Week w/ 935 Flex	$2,596.00

Summer Term Fees Subject to Change (5 Weeks): Residence Halls

Fee	Amount
Twin Towers Double Occupancy	$1,496.00
Twin Towers Single Occupancy	$1,821.00

Early Arrival/Break Housing, Subject to Change

Fee	Amount
Double Occupancy per day	$30.00
Single Occupancy per day	$40.00

Commuter Meal Plans

For a complete list of the Commuter Meal Plans visit https://www.marshall.edu/it/departments/campusid/mealplans/

Payment of Fees

Tuition fees for a regular semester, a Summer Term, an Intersession, and any special class are due and payable to the Office of the Bursar in accordance with dates established and listed on the Marshall University website at www.marshall.edu/bursar (http://www.marshall.edu/bursar/). If you do not pay your enrollment fees on or before the due date, your registration will be cancelled and you will be subject to withdrawal from the university (see Policy below). Do not depend on receiving a bill from the university in the mail. It is always your responsibility to know when enrollment fees are due and to pay them by that time.

Student deferred payment plans for tuition will be offered for the fall and spring semester. All available financial aid from the term must be credited to the student's account prior to determining the amount available for deferral. For more information on payment plans or to enroll in a payment plan, visit www.marshall.edu/bursar (http://www.marshall.edu/bursar/), or log on to CashTrack through myMU (www.marshall.edu/mymu (http://www.marshall.edu/mymu/)).

You can pay fees by Visa, MasterCard, Discover, or American Express by using CashTrack on myMU (www.marshall.edu/myMU (http://www.marshall.edu/myMU/)). Credit card payments are also accepted at the Office of the Bursar, 101 Old Main. Please note that a nonrefundable processing fee of 2.25% will apply to credit or debit card payments.

If you are a recipient of financial aid through the university's loan or scholarship program, the university's Department of Intercollegiate Athletics, or any governmental agency, or by private loan or scholarship, you must complete arrangements for payment through the University Bursar in 101 Old Main. (See Student Financial Assistance (p. 40).)

Your registration is not complete until all fees are paid.

Your registration will be cancelled if the bank does not honor your check for payment of registration fees. A charge of $25.00 will be made for each check returned unpaid by the bank.

A student who has a financial obligation to the university cannot engage in any registration activity until the obligation is satisfied. Should the obligation remain unpaid the obligation may be assigned to a state-authorized collection agency.

A student who withdraws from the institution by following proper withdrawal procedures will receive refunds of fees paid in accordance with the refund policy.

A student who is required to withdraw from the institution for disciplinary reasons may not receive refunds of fees paid.

Withdrawal/Reinstatement Policy for Nonpayment of Enrollment and Residence Hall Fees

1. Through late registration each semester, a schedule of withdrawal for nonpayment will be included on the bursar's office website at www.marshall.edu/bursar (http://www.marshall.edu/bursar/). Following late registration, the Bursar will send written notification to the student advising of administrative withdrawal for nonpayment of Enrollment or Residence Hall Fees.
2. Upon notice from the Bursar, the Registrar will initiate a complete withdrawal for a student not paying fees. The withdrawal will be for "Administrative-Nonpayment of Enrollment or Residence Hall Fees."
3. The Registrar will notify the instructor that the student should not be permitted to continue attendance in the class.
4. If the student fulfills the financial obligation, the Bursar's Office will notify the student and his/her academic dean. The academic dean will have discretion to approve registration. If the dean approves, the student, the instructors, and the Registrar will be notified in writing immediately.
5. Upon receipt of notice from the academic dean, the Registrar will initiate the procedure to register the student in the courses for which the student was enrolled at the time of withdrawal.
6. A student who does not meet the financial obligation for enrollment and residence hall fees will have all entries of that registration erased on the Registrar's permanent record.
7. A student who owes a financial obligation to the university will not be permitted to enroll in subsequent semesters or terms until the obligation is paid.

Withdrawal/Reinstatement for Other Financial Obligations

1. Failure to fulfill other types of financial obligations with proper procedure may result in administrative withdrawal from the university.
2. Upon notice from the Bursar, the Registrar will initiate a complete withdrawal for a student not paying financial obligations. The withdrawal will be "Administrative-Nonpayment of Financial Obligations" and will be dated with the effective date of processing of the withdrawal.
   Under these conditions, procedures will be followed as outlined above, items 3, 4, & 5, under "Withdrawal/Reinstatement Policy for Nonpayment of Enrollment and Residence Hall Fees."
3. Students who do not meet these "Other Financial Obligations" and who are administratively withdrawn from the university will receive the grade determined by the withdrawal policy in effect at the time the administrative withdrawal was initiated.
4. A student who owes other types of financial obligations to the university will not be permitted to enroll in subsequent semesters until the obligation is paid.
5. If a student disputes an administrative withdrawal, he/she may file an appeal with the Student Grievance Board through the Dean for Student Affairs. (The Student Grievance Board is a subcommittee of the Student Conduct and Welfare Committee.) This appeal must be filed before the effective date of withdrawal established by the Bursar. The administrative withdrawal will be suspended until the President of the University acts upon the recommendation of the Student Grievance Board.

Public Law 115-407, Sect 103

Effective August 1, 2019:

For students utilizing Chapter 31 VA Veteran Readiness and Employment or utilizing Chapter 33 Post 9-11 VA education benefits, while payment to the institution is pending from the VA, Marshall University guarantees:

- Enrollment in the semester for which VA payment is pending;
- Access to registration for the subsequent semester;
- No late fees assessed for amount pending payment by VA;
- Access to any resources (access to classes, libraries, or other institutional facilities) available to other students who have satisfied their tuition and fee bills to the institution;
- Borrowing additional funds will not be required.

To qualify, by or on the first day of the semester a student must:

- Present to the Office of the Registrar a VA Certificate of Eligibility issued in the name of the student;
- Provide written request to be certified by completing the form at: www.marshall.edu/registrar/veterans/;
- Use one of the two VA benefits, Chapter 31 or Chapter 33, as noted.

Costs which are the responsibility of the student, such as tuition and fees not billable to VA, or costs for dormitory and meal plans, are not covered under the provision established by PL 115-407, Sec. 103. Students using Post 9-11 benefits at *less than 100% eligibility* are responsible to contact the Office of the Bursar to make payment arrangements on the amount of tuition not anticipated to be paid by the VA. Students are responsible to make payment arrangements for dorm and meal plans, if applicable.

The provision established by PL 115-407, Sec. 103, ends 90 days after tuition and fees are billed to VA whether or not VA has issued payment to the University. At that time, the University can hold the student liable for the billable tuition and fees unpaid by VA, place a registration hold for any outstanding amount billed to VA, or withdraw the student for non-payment of the billable tuition and fees not paid by VA. Ultimately, the student does agree to assume and pay any and all costs associated with said enrollment not paid by the VA directly to the University.

Refund Procedures

Enrollment fees (tuition fees) will be refunded during the period designated by the Office of the Bursar for Registration, Late Registration, and Schedule Adjustments for a regular semester or a summer term and published on the bursar's office website at www.marshall.edu/bursar (http://www.marshall.edu/bursar/). Enrollment fees (tuition fees) will be refunded to students for:

1. *Schedule Adjustments* - Students who drop one or more classes through the end of the Late Registration period shall be eligible for a full reduction of tuition and fees of the dropped course(s), provided that the remaining tuition and fee assessment falls below twelve credit hours for undergraduate students or nine credit hours for graduate students.
2. *Complete Withdrawals* - Students initiating a complete withdrawal from the University shall receive a reduction in tuition and fees calculated using the following schedule, in accordance with Title 133 Legislative Rule, Series 32, Section 6.1:
   - During the first 10% of the term, 90% reduction,
   - From 11% to 25% of the term, 75%,
   - From 26% to 50% of the term, 50%,
   - After 50% of the term is completed, no reduction in tuition and fees will occur.

   Should the percentage calculation identify a partial day, the entire day should be included in the higher refund period.
3. *Course Withdrawals after Late Registration* - Students who do not officially withdraw from all classes at the University shall not be eligible for a reduction in tuition and fees.
4. Students receiving financial assistance covered by Title IV, who officially withdraw shall receive a refund in accordance with the Higher Education Act. See the following section.

Return of Title IV Funds Policy

See section under "Student Financial Assistance (p. 40)."

Cancellation of Class

When it becomes necessary to cancel a class by administrative and/or faculty action, a student is granted a full refund of the fee for the class cancelled unless he/she registers in another course of like value in terms of semester hours. This action does not apply to withdrawals due to disciplinary action or withdrawals due to nonpayment of financial obligations.

Cancellation and Refund Policy for Housing and Residence Life

Cancellation of this contract by those not planning to enroll in the university or reside on campus must be received in writing by the Department of Housing and Residence Life on or before May 15th. Such cancellations will result in a refund of $100.00 of the reservation deposit. Cancellations postmarked after May 15th from individuals who do not enroll in the university or reside on campus will result in a forfeiture of the entire $200.00 reservation deposit. Individuals who complete a contract and who enroll in the University (academic classes) will be expected to fulfill their obligations for the period specified. For contracts commencing for the Spring or Summer terms, cancellations postmarked 30 days before the opening of housing will result in a $100.00 refund. Cancellations postmarked after that date will result in a forfeiture of the entire $200.00 reservation deposit.

Voluntary withdrawal from the university and, in turn, housing and food service prior to the opening of the residence halls will result in a full refund less the $200.00 reservation deposit. Complete withdrawal from the university and housing and food service between the opening day for Housing and the first Friday will result in a refund of fifteen weeks' room and board. Withdrawals after the first Friday will result in a forfeiture of all monies paid for room and board. The student remains liable for any unpaid balance due.

Students whose residency is terminated automatically (due to violations of Code of Conduct or Residence Hall policies) forfeit all monies paid for that semester and remain liable for any unpaid room or meal plan balances at the time of termination. Students will be responsible for any interest, collection and reasonable attorney's fees associated with the collection of delinquent accounts.

Students who are denied admission, declared academically ineligible to return, or are unable to return for medical reasons, will be refunded on a prorated basis.

For students called to armed services, refunds of the enrollment fee only will be processed in accordance with policy established by the Office of the Registrar.

Late fees are nonrefundable.

Tuition & Fees: Specific Information

Tuition and fee costs are based on the college in which your major is housed and the specific program in which you are enrolled. For a complete schedule of tuition and related fees for the current year, please visit www.marshall.edu/tuition (http://www.marshall.edu/tuition/).

The university and its governing board reserve the right to change fees and rates without prior notice. Fee assessments are calculated on student level, not course level.

Please note: All fee listings in the fee section of this catalog show the rates authorized and in effect for the fall semester of the 2022-2023 academic year.

Tuition & Enrollment Fees

Undergraduate Tuition and Fees

Regular Semester - Fall 2022 - Full-Time Student

Tuition	Resident Rates	Metro Rates[1]	Non-Resident Rates
Base Tuition and Fees	**$4,302.00**	**$7,344.00**	**$9,829.00**
Regents Bachelor of Arts	**$4,302.00**	**$7,344.00**	**$9,829.00**
University College	**$4,302.00**	**$7,344.00**	**$9,829.00**
Aviation: Flight School	**$4,302.00**	**$7,344.00**	**$9,829.00**
College Program Fees			
College of Arts and Media			
Fine Arts Programs	330.00	410.00	410.00
Journalism Program	110.00	193.00	193.00
College of Business	160.00	265.00	265.00
College of Education and Professional Development	200.00	200.00	200.00
College of Health Professions			
Clinical Lab Sciences, Communicatio Disorders, and Dietetics Programs	310.00	570.00	570.00
Kinesiology Programs	310.00	570.00	570.00
Nursing Programs	570.00	825.00	825.00
All Others	210.00	470.00	470.00
College of Engineering and Computer Sciences	560.00	865.00	865.00
College of Liberal Arts	105.00	105.00	105.00
College of Science	175.00	220.00	220.00
Aviation: Flight School (see below)			

[1] Metro Fee is applicable to students whose residence is as follows:

- in Ohio: Gallia, Jackson, Lawrence, Meigs, and Scioto Counties
- in Kentucky: Boyd, Carter, Elliott, Floyd, Greenup, Johnson, Lawrence, Martin and Pike Counties

Aviation Fees

Fee	Amount
Aviation – Solo Flight Lab; includes 15 flight hours	6,100.00
Aviation – Private Pilot Cert ASEL Lab; includes 20 flight hours	7,800.00
Aviation – Instrument Certification Lab; includes 36 flight hours	14,000.00
Aviation – Commercial Phase I Lab; includes 52.5 flight hours	17,100.00
Aviation – Commercial Phase II ASEL Lab; includes 43.5 flight hours	13,900.00
Aviation – Initial CFI ASEL Lab; includes 20 flight hours	7,000.00
Aviation – CFII Lab; includes 10 flight hours	4,100.00
Aviation – Commercial AMEL Add-on Lab; includes 12 flight hours	6,800.00
Aviation Program Additional Resource Fees	
Aviation – Cirrus SR20 Per Additional Hour	310.00
Aviation – Twin Engine Aircraft Per Additional Hour	500.00
Aviation – Frasca SR20 AATD Simulator Per Additional Hour	50.00

Special Student Fees

Fee	Amount
Application Fees (non-refundable)	
Undergraduate	40.00
Undergraduate Readmission	25.00
International Application Fee	150.00
Transfer Evaluation Fee	50.00
School of Nursing	30.00
CLEP/DANTES Testing	25.00
Course-Specific/Laboratory Fees:	
COHP-SOK - SCUBA Fee	200.00
Distance Tuition - Undergraduate (per credit hour)	281.75
Distance Tuition - Undergraduate (per semester)	3380.00
E-Delivery Course Fee (per credit hour)	40.00
Electronic Course Fee - High School (per credit hour)	75.00
Electronic Course Fee - Undergraduate/WV Rocks (per credit hour)	250.00
High School Dual Enrollment – Resident – Course on campus (per credit hour)	145.00
Ohio High School STEM Program (per credit hour)	167.00
Enrollment Deposits	
Undergraduate	100.00
International	500.00
Graduation Fees[1]:	
Associate Degree	50.00
Baccalaureate Degree	50.00
Certificate Fee	15.00
Diploma Replacement - Certificate	15
Diploma Replacement - Bachelor's Degree	50.00
Health Professions	
Non-Major Course Fee (per 1-hour course)	663.75
Non-Major Course Fee (per 2-hour course)	1,327.50
Non-Major Course Fee (per 3-hour course)	1,991.00
Non-Major Course Fee (per 4-hour course)	2,655.00
Housing and Residence Life Fees:	
Improper Check-out Fee[1]	50.00
Mail Box Re-Key (per lock)	30.00
Reservation Deposit	200.00
Room Re-Key (per lock)	50.00
International Student Fee	100.00
Intensive English Program (Undergraduate, per semester)	4,500.00
Intensive English Program Online (per semester)	3,200.00
Late Payment Fee[1]	25.00
Meal Card/ID Card Replacement	20.00
Pharmacy - Matriculation Fee (Year 1, fall only)	270.00
Pharmacy - Progression Fee (Years 1-4, fall only)	390.00
Pharmacy - Simulation Fee (Years 1-3, fall only)	350.00
Pharmacy - Practice Readiness Fee (Years 3-4, fall only)	390.00
Pharmacy - iPad Fee (Years 1-2, fall only)	250.00
Pharmacy - iPad Fee (Year 3, fall only)	350.00
Regents BA Degree Evaluation	300.00
Regents BA Posting Fee (per credit hour awarded)	10.00
Reinstatement Fee – Course Schedule[1]	25.00
Returned Check Fee	25.00
Revalidation of Credit Fee (per hour)	25.00
Senior Citizens Course Fee - Series 67	50.00
Student Success Fee	60.00

Study Abroad Fee (Registration Fee - per program)	100.00
Study Abroad Application/ Advising/Shipping Fee	150.00
Transcript - Paper	10.00
Transcript - Electronic	12.00
University College - Placement Testing Fee	35.00

[1] Non-refundable.

Housing Rates

Below is a list of Housing and Meal Plan rates per semester for the 2022-2023 academic year.

Description	Amount
Rooms	
Buskirk Double	$2,916.00
Buskirk Single	$3,871.00
First Year North and South, Double	$3,668.00
Marshall Commons (Gibson, Haymaker, Wellman, Willis) - Double	$3,399.00
Marshall Commons (Gibson, Haymaker, Wellman, Willis) - Single	$4,218.00
Twin Towers (East and West) - Double	$2,916.00
Twin Towers (East and West) - Single	$3,871.00
Meal Plans	
10 Meals per Week with $500 Dining Dollars and 10 Anytime Meals	$2,034.00
10 Meals per Week with $700 Dining Dollars and 20 Anytime Meals	$2,240.00
10 Meals per Week with $935 Dining Dollars	$2,391.00
14 Meals per Week with $500 Dining Dollars and 10 Anytime Meals	$2,252.00
14 Meals per Week with $700 Dining Dollars and 20 Anytime Meals	$2,549.00
14 Meals per Week with $935 Dining Dollars	$2,700.00

Financial Aid Application Process

To apply for financial aid, students must file the Free Application for Federal Student Aid (FAFSA) by visiting https://studentaid.gov/h/apply-for-aid/fafsa (https://studentaid.gov/h/apply-for-aid/fafsa/). By filing the FAFSA, students are considered for federal grants, scholarships, loans and work-study. In addition, when WV students file the FAFSA, they are also being considered for state and institutional financial aid. Students must enter Marshall University's Federal School Code: **003815** in Step 6 – of the FAFSA for consideration of all financial aid programs to attend Marshall University.

The **priority filing date for the FAFSA is March 1** prior to the academic year the student is attending for full consideration of all federal, state and institutional financial aid programs. Students may file the FAFSA after this date; however, certain financial aid opportunities may be missed.

In addition to the FAFSA, there is an additional application for students who wish to apply for financial aid for the summer. Marshall University Summer Financial Aid Applications are available on the first day of registration. Summer is a non-standard term. This requires the Office of Student Financial Assistance to collect additional information, which is not provided on the FAFSA. Summer is also considered a trailer for financial aid awarding purposes, meaning that the summer follows the completed academic year. For example, to apply for financial aid for the 2022 summer terms, the student must have a 2022 FAFSA on file. A 2022-23 FAFSA may also be used to consider Federal Pell Grant eligibility for summer. Submit a request by visiting https://www.marshall.edu/sfa/application-process/summer-financial-aid-eligibility-requirements/. Regardless of whether a student submits a request for summer aid, any student who enrolls in the summer and qualifies for a Pell Grant will be awarded.

Eligibility Determination

Student Aid Report

After filing the FAFSA, the student receives a Student Aid Report (SAR). When an email address is provided on the FAFSA, the SAR will be emailed; otherwise, it will be sent by regular mail. At the same time, Marshall University receives the results of the students' FAFSA. The needs analysis results provide an Expected Family Contribution (EFC), which is used to determine a student's financial aid eligibility.

Students have the ability to access their SAR by going to https://studentaid.gov/h/apply-for-aid/fafsa (https://studentaid.gov/h/apply-for-aid/fafsa/). Students will need their FSA ID to access their SAR.

Cost of Attendance

The Office of Student Financial Assistance determines your financial aid eligibility by subtracting your Expected Family Contribution (EFC) from your Cost of Attendance (COA). The information you report on your FAFSA is used in a formula established by the U.S. Congress, which determines your EFC. The COA that your financial aid package is based upon reflects standard and reasonable costs. Your COA attendance includes average tuition and fees based on your residency (i.e., West Virginia, Metro[1], and Non-resident), enrollment status, and program of study. For actual tuition, fee, residence halls, and meal plan charges. please visit the Bursar website at www.marshall.edu/bursar (http://www.marshall.edu/bursar/).

Housing & food charges vary based upon residence hall assignment and meal plan. When you live on campus, you will be billed directly for your room and your meal plan. Marshall University policy requires all full-time freshmen and sophomores to live on campus. You may only request an exemption from this policy if your parent/legal guardian(s) live within 50 miles of campus, and you will be living at home with them in your permanent residence, by completing a Housing Release Request form. You may obtain the Housing Release Request form by visiting www.marshall.edu/housing/resources-and-services/forms (http://www.marshall.edu/housing/resources-and-services/forms/). The COA budget component for housing and meals for students who live with parents or reside in off-campus housing varies according to your

personal circumstances. Marshall University does not charge you for these amounts, but they are part of your Financial Aid COA budget to determine your financial aid eligibility.

Your COA also includes allowances for books and supplies. Books and supplies costs vary based upon your particular program of study. Transportation and Miscellaneous expenses are also variable costs and can consume a large part of your educational expenses if you don't budget carefully. The Office of Student Financial Assistance estimates certain values for these variable cost components to determine your full COA. You may view your financial aid COA by accessing your Cost of Attendance via the Financial Aid portal within myMU, but you must review your student account to see your actual Marshall University charges.

In all cases, the total amount a student is awarded in financial aid, e.g., scholarships, grants, loans, and work-study, cannot exceed the cost of a Marshall University education. In some instances, when Title IV (certain federal financial aid programs) and certain WV Higher Education programs are awarded, students are limited to receive grants and scholarships up to the student's demonstrated financial need.

[1] Metro tuition/fees apply to students who reside in Gallia, Jackson, Lawrence, Meigs, Pike or Scioto Counties in Ohio and Boyd, Carter, Elliott, Floyd, Greenup, Johnson, Lawrence, Martin and Pike Counties in Kentucky.

Eligibility Confirmation

Using information reported on the FAFSA, the U.S. Department of Education performs data exchange with federal agencies to confirm that students meet basic eligibility requirements. The following student eligibility criteria are checked:

- Social Security number and citizenship status with the Social Security Administration
- Selective Service registration with the Selective Service System, if required
- Eligible non-citizenship status with the U.S. Department of Homeland Security
- Veteran Status with the U.S. Department of Veteran Affairs
- Default, disability discharge, bankruptcy, aggregate loan history statuses for federal student loans, overpayment status for federal student grants, and Pell Grant life-time limits

The Office of Student Financial Assistance must also review other eligibility requirements such as:

- Admission Status
- Satisfactory Academic Progress
- Enrollment Status
- Academic Level
- Dependency Status
- Marital Status
- Identity
- Unusual enrollment patterns
- Course Program of Study (https://www.marshall.edu/sfa/check-your-cpos/)
- Note: Federal student aid from Marshall University can only pay for classes that apply towards your degree or certificate at Marshall University. Be sure to monitor your DegreeWorks and communicate with your academic adviser to make sure you are in the right classes.

If any of the items are discrepant, the Office of Student Financial Assistance is required to resolve the issue. This may require the Office of Student Financial Assistance to follow up with the student to request documentation to resolve any discrepancies.

Verification

Verification is the process in which Student Financial Assistance (SFA) – as dictated by federal and state regulations – compares the information reported on the FAFSA with financial and other data including but not limited to the following items:

- Adjusted Gross Income
- U.S. Income Tax Paid
- Education credits
- Untaxed IRS distributions
- Untaxed pensions
- IRA deductions and payments
- Tax-exempt interest
- Income earned from work
- Household size
- Number in college
- Supplemental Nutrition Assistance Program (SNAP)
- Child Support paid
- High school completion status
- Identity/statement of educational purpose

Students who are selected for verification are sent notification instructing them to access their financial aid records by logging into myMU.

SFA must receive all requested documentation before financial aid can be disbursed (or credited) to the student's Bursar account. If there are differences between the data the student provided on the FAFSA and the verification documentation submitted, corrections to the SAR may be needed, and as a result, the student's application will be reprocessed.

Student responsibilities are to:

- Submit all documents requested promptly utilizing the links located at: https://www.marshall.edu/sfa/forms-applications/.
- Please note: In order to protect students' Personal-Identifiable Information (PII), the Office of Student Financial Aid does not retain paper documentation. Should you submit a paper document, we will scan and email this to your Marshall University email with instructions to upload this documentation to our secure dynamic forms. Please visit SFA Forms and Applications (https://www.marshall.edu/sfa/forms-applications/2223forms/) or your myMU for uploading.
- Maintain copies of all information used to file the FAFSA and of documents submitted to the Office of Student Financial Assistance.

It is extremely important that you respond to requests for information promptly because finalized **financial aid awards are processed in the order of file completion date**. To ensure that your financial funds disburse as scheduled at the start of the fall semester, you must be registered for classes and submit all required documentation by June

10. You may still submit documents after June 10; however, you should be prepared to make payment arrangements with the Bursar's Office in the event your financial aid is not finalized by the billing due date.

The deadline for submittal of all verification documents is **30 days prior to the end of the academic year/period** you are enrolled. This designated deadline allows SFA to process and authorize disbursements within the timeframe permitted under regulations set forth for administering the federal and state financial aid programs. Failure to provide requested documentation within this timeframe will result in cancellation of your financial aid offers.

The deadline for students to submit verification documentation may be extended up to 60 days after the student's last day of enrollment during the academic year/period on a case-by-case basis, and will be processed to the extent that is administratively possible.

A Federal Pell Grant applicant selected for verification must complete the process by the deadline published in the Federal Register.

You will be sent an email directing you to review your revised financial aid awards by logging into my MU and accessing your financial aid records when there are any changes as a result of verification.

Financial Aid Satisfactory Academic Progress

Satisfactory Academic Progress (SAP) is the term used to define successful completion of degree requirements to maintain eligibility for federal and state financial aid. As required by regulations, Marshall University must determine whether a student meets SAP requirements. SAP evaluation for undergraduate students occurs at the conclusion of each payment period, which is at the end of the fall semester, spring semester, and summer terms. Financial aid eligibility determination for a future term of enrollment cannot be done until SAP evaluation occurs.

The student's entire academic history must be considered when determining SAP status irrespective of whether or not the student received financial aid. This also includes Advance Placement (AP) and International Baccalaureate (IB) credits, as well as transfer credits that apply to a Marshall University degree.

Requirements of the SAP Policy

Qualitative (Grade Point Average)

The qualitative component measures the quality of the student's SAP by conducting a review of the student's cumulative grade point average (GPA). To meet the qualitative requirement, the student must have a minimum cumulative Marshall University and an overall GPA of at least a 2.0. Credits accepted from other schools that may be applied to a Marshall University degree are counted in the calculation of the student's GPA, thus, are included in the qualitative measure.

(Specific external and institutional scholarships, assistantships, and grants may require a different minimum GPA for continued eligibility. This consideration is a separate and distinct factor in renewing or continuing eligibility for these specific financial aid funds. Information about the terms and conditions of specific student aid programs that have GPA and credit completion requirements is provided to the student at the time the award is offered. This information may be reviewed by logging into myMU and accessing financial aid award records.)

Quantitative Measure (Calculating Pace or Completion Ratio)

The quantitative component corresponds to the pace at which the student must progress through his or her program of study. This evaluation is to ensure completion within the maximum timeframe (see below) permitted and provides for the measurement of the student's progress at the end of each period of enrollment. Pace or completion ratio is calculated by determining the cumulative number of credit hours the student has successfully completed divided by the number of cumulative credit hours the student has attempted. Credits accepted from other schools that may be applied to a Marshall University degree are counted in the calculation as both attempted and completed hours. To meet the quantitative requirement, the student's completion ratio must be 67% or higher.

Maximum Time Frame Measure

The maximum timeframe is a period of no longer than 150 percent of the published length of the education program as measured in credit hours. To meet the maximum timeframe requirement, the following rules apply:

Undergraduate Pursuing an Associate Degree
Not to exceed 100 attempted credit hours

Undergraduate Pursuing a Baccalaureate Degree
Not to exceed 180 attempted credit hours

Undergraduate who has an Associate Degree and is pursuing a 2nd Associate Degree
Not to exceed 130 attempted credit hours

Undergraduate who has a Baccalaureate Degree and is pursuing an Associate Degree
Not to exceed 210 attempted credit hours

Undergraduate who has a Baccalaureate Degree and is pursuing a 2nd Baccalaureate Degree
Not to exceed 240 attempted credit hours

In addition to the three measures referenced above to determine a student's SAP, a student who is placed on Academic Probation or Academic Suspension by his or her school or college based on University academic policy is considered ineligible for financial aid.

Effects of Remedial, Repeated, and Pre-requisite Courses

Remedial or developmental courses do not count toward the student's degree requirements, but they are counted as earned hours and are used to determine a student's academic grade level or classification. Hence, they are calculated according to the rules set forth in this policy. (Financial aid may be awarded to cover up to 30 remedial course credits. Remedial course credits in excess of 30 cannot be calculated as enrolled hours for financial aid purposes. This rule is not related to SAP but is a general financial aid eligibility requirement.)

If the student repeats a course, those credits are counted again when calculating attempted credits. However, if the student repeats a course in which he or she has earned a D or F grade taken no later than the semester or summer term during which the student attempts the 60th semester hour, and before he or she earns a baccalaureate degree, the student may have the D/F Repeat rule applied. When the D/F Repeat rule is applied, the original grade shall be disregarded, and the new grade (excluding a W) shall be used in determining the student's GPA.

(Coursework that a student repeats may be included when determining a student's enrollment status for Title IV-federal student aid purposes as long as it is not a result of 1) more than one repetition of a previously passed course, or 2) any repetition of a previously passed course due the student failing other coursework. This rule is not related to SAP but is a general financial aid eligibility requirement.)

Pre-requisites or preparatory courses are those in which a student must complete in order to meet admission requirements for a graduate or professional program. They do not count toward the student's degree requirements; however, they are calculated according to the rules set forth in this policy.

Effects of Withdrawal and Incomplete Grades

If the student withdraws from a course after the first week of classes during any given semester (i.e., student receives a grade of "W" for the course), the course credits are included in the count of attempted credit hours. Thus, withdrawn courses are calculated in the quantitative and maximum time frame measures. Credits for an incomplete course (i.e., student receives a grade of "I" for the course), are counted as credits attempted for quantitative and maximum timeframe measures, but are not included in the GPA or the credits earned count until the incomplete grade changes to a passing or failing grade.

Effect of Change in Major

If a student changes his or her major, all the credits the student earns toward any Marshall University undergraduate degree will be included in the calculation of qualitative, quantitative and maximum time frame measures.

SAP Definitions

Financial Aid Warning

Financial Aid Warning status is assigned to a student who fails to meet one or more of the SAP measures at the conclusion of a payment period. Students placed on Financial Aid Warning will be notified by email and directed to log into myMU to review their SAP record. The student may continue to receive financial aid for one subsequent payment period under this status despite the determination that the student is not making SAP. Students who do not enroll during the period in which the Financial Aid Warning period was assigned will forfeit that status.

Financial Aid Probation

Financial Aid Probation status is assigned to a student who fails to make SAP (following Financial Aid Warning status) and who has successfully appealed. A student who is placed on Financial Aid Probation may receive financial aid for one subsequent payment period. A student on Financial Aid Probation may be required to meet certain terms and conditions while on Financial Aid Probation, such as taking a reduced course load or taking specific courses. A student assigned a Financial Aid Probation status will be placed on a Financial Aid Academic Plan. At the conclusion of the SAP Academic Probation payment period, the student must either meet the SAP standards or fulfill the requirements specified in the Financial Aid Academic Plan.

SAP Appeal Procedures

If a student fails one or more of the three measures (qualitative, quantitative and maximum time frame) or is placed on Academic Probation or Academic Suspension, the student is not eligible for federal and state financial aid including grants, scholarships, work-study and loans. Students failing SAP standards who have had mitigating circumstances (e.g., death in the family, illness, involuntary military leave), however, may request reinstatement of their financial aid eligibility by completing the SAP Appeal for Financial Aid Reinstatement Form located at: https://www.marshall.edu/sfa/forms-applications/2223forms/ (https://www.marshall.edu/sfa/forms-applications/2223forms/)by the published deadlines.

The appeal must include the following:

1. A completed and valid 2022-23 Free Application for Federal Student Aid (FAFSA) by the deadline dates specified below;
2. Not be in Federal Student Loan Default or owe a Title IV (Federal) Student Aid Overpayment;
3. Detailed explanation for failure to meet SAP standards for each payment period the student failed to perform satisfactorily;
4. Documentation to support the reason for failure (medical form, death certificate, etc.);
5. Detailed explanation of what has changed that will now allow the student to comply with SAP standards, a statement of academic objectives, and corrective action plan.

SAP Appeal Deadlines

Semester/Term	Date
Fall Semester	Tuesday of the week before the start of classes
Spring Semester	Tuesday of the week before the start of classes
Summer Terms	Last Friday of June

SAP Appeals Committee and Decision

The SAP Appeals Committee is composed of representatives from the Office of Student Financial Assistance. Students will be notified by email and directed to log into myMU to review the decision of the SAP Appeals Committee. The decision of the SAP Appeals Committee is final; however, the student may appeal again by the published deadlines for a future payment period.[1]

If the appeal is approved, the student is placed on Financial Aid Probation and the student's financial aid eligibility is reinstated for one subsequent payment period. During the Financial Aid Probation period, the student may be required to fulfill certain conditions for financial aid reinstatement. In addition, all students placed on Financial Aid Probation must follow the Financial Aid Academic Plan explained below. At the conclusion of the payment period, if the student meets the standards of SAP, the Financial Aid Probation status will be removed. If not, the student's academic performance for the term will be evaluated against the student's Financial Aid Academic Plan.

Financial Aid Academic Plan

The academic plan requires students to complete 80% of the attempted coursework (100% if the student failed the maximum timeframe measure) and earn a minimum 2.1 GPA for the payment period the student is on SAP Academic Probation. If the student meets the requirements of the Financial Aid Academic Plan, the student will be assigned continued Financial Aid Probation for a subsequent payment period. (The FA Academic Plan is separate and distinct from an Academic Improvement Plan, which is required of students who fail to maintain a minimum 2.0 Marshall or overall GPA.) If the student fails to meet SAP standards or the requirements set forth in the Financial Aid Academic Plan, the student will be deemed ineligible for financial aid, but may appeal again for a future payment period by published

deadlines. A student who has a change made to his or her academic transcript (i.e., grade change) during the semester in which the student is ineligible, on Financial Aid Warning or Financial Aid Probation, may request a SAP re-evaluation.

[1] If the appeal is denied, the student will be responsible for paying tuition and/or fees or officially withdrawing from classes before the refund deadline.

Enrollment Status/Enrollment Classification

Each type of financial aid (program) has specific requirements regarding enrollment status. In general, SFA uses the following undergraduate enrollment criteria to determine eligibility for financial aid programs it administers:

Credits per Term/Semester	Enrollment Status Classification
12 +	Full time
9 – 11	Three-quarter time
6 – 8	Half time
1 – 5	Less than half time

As a rule a student's financial aid package is based on full-time enrollment and the Office of SFA uses the enrollment status on the first day after drop/add period (usually the 8th day of the semester) to determine financial aid eligibility. Only courses that apply to the student's degree may be included to determine the student's enrollment status for federal student aid eligibility.

Academic Level Classification

Some financial aid programs have specific criteria based on the student's academic (grade) level. According to University Academic Policy, the following criteria are used to define the student's academic level:

Total Credits Earned	Academic Level
0 – 29	1st Year or Freshman
30 – 59	2nd Year or Sophomore
60 – 89	3rd year or Junior
90 +	4th Year or Senior

Dual Enrollment and Study Abroad

Marshall University students who plan to enroll at another college or university simultaneously may have their other enrollment elsewhere considered for financial aid eligibility at Marshall University.

Students may not receive federal financial aid at more than one institution of higher education for the same courses or at the same time. Students must declare which institution is to be considered the "home school" or the institution where they will receive their degree for financial aid eligibility purposes. To be considered for financial aid as a dually enrolled student or a student taking courses elsewhere during a given semester, a consortium agreement form must be completed and approved by both Marshall University and the other school.

Types of Aid Available

Financial aid is funding for college education that comes from sources outside of the student's family. Gift aid and self-help aid are the two categories of financial aid. Gift aid comes in the form of grants and scholarships and usually does not have to be repaid. Self-help aid comes in the form of loans and work-study. Financial aid at Marshall University is awarded based on financial need, merit, or both. Students may receive a combination of grants, scholarships, loans, and work-study in their Financial Aid Package. Sources of funding come from Marshall University, the federal government, the state and other entities.

The types of financial aid programs listed below are available at Marshall University for undergraduate students:

- Merit-Based Scholarships and Grants
- Need-based Grants
- Loan Programs
- Student Employment
- Veteran Education Benefits
- Foundation Scholarships

For current and more detailed information on types of financial aid available, please visit www.marshall.edu/sfa (https://www.marshall.edu/sfa/)/types-of-aid (https://www.marshall.edu/sfa/types-of-aid/).

Notification and Disbursement of Awards

Checking Financial Aid Records

Students may access their financial aid records by logging on to their myMU account. MyMU is the student's campus web portal used to provide students with easy online access to their Marshall University records.

In order to log into myMU, students must have both their unique MUNet account and password. Any student that has problems accessing their myMU records should email servicedesk@marshall.edu or call 1-877-689-8638.

Understanding Financial Aid Awards & Requirements

Online financial aid notification via the student's myMU account is the official method by which students receive information regarding their financial aid application and awards.

Email is the primary means of communication between students and the Marshall University Office of Student Financial Assistance. Emails are sent to the student's Marshall University email account. It is the student's responsibility to monitor email notifications from the Office of Student Financial Assistance as well as from other university offices. Failure to read and respond to email communications from the Office of Student Financial Assistance may result in delay or cancellation of financial aid awards.

Once you access your financial aid records within the Financial Aid Main Menu tab, you will be able to view the following topics:

- Financial Aid Status
- Requirements
- Eligibility
- Awards

Disbursement of Financial Aid (or Financial Aid Crediting to your Billing Account)

The earliest financial aid may credit to a student's billing account is 10 days before the semester begins. However, financial aid will not credit to the student's account unless all eligibility requirements have been met and verification has been completed. In addition, if the student is taking out a student loan, the student must have completed entrance loan counseling and completed a master promissory note for the respective loan program.

Pending financial aid is a temporary status and is used for financial planning purposes only. Pending financial aid allows the Bursar Office to defer payment of student's tuition, fees, residential and board payments until the financial aid is finalized and credited to the student's Bursar account. Students are responsible for making payment for the difference between bursar charges and financial aid awards by the designated due dates established by the University.

Financial aid awards are not final until they have credited to the student's account.

Payment Plan Option

Under the Marshall University **OASIS Payment Plan**, students may select to make three equal payments of their outstanding charges for the fall or spring semester after any applicable financial aid has been applied. For more information, visit www.marshall.edu/bursar (https://www.marshall.edu/bursar/).

Refunds Due to a Financial Aid Credit Balance

When financial aid for the semester/term exceeds a student's direct charges (tuition, fees, etc.) on the student bill, the student is entitled to a refund for the difference for use toward other educational expenses. The Bursar's Office issues refunds to students beginning the first day of classes. Only those students whose financial aid was credited 10 days prior to the semester/term with a credit balance will receive a refund on the first day of the semester/term. Following the first day of the semester/term, it takes approximately one week after financial aid is disbursed for the Bursar Office to issue a financial aid refund to a student.

Visit the Bursar website at www.marshall.edu/bursar (https://www.marshall.edu/bursar/) for more information on financial aid refunds.

Impact on Financial Aid Due to Withdrawal or Failure to Enroll

Students could jeopardize receipt of some types of aid if they are not properly enrolled at the time that financial aid funds disburse. Students may have originally been packaged as a full-time student, but at the time the funds are ready to disburse, students' enrollment status may differ. Students' change in enrollment may affect the eligibility for certain funds.

If a student does not attend for a period of enrollment that he/she has been awarded financial aid, the Office of Student Financial Assistance must cancel all financial aid awards offered. Upon re-enrollment, the student may request assistance again, but, because awards are based on the availability of funds, funding may be limited.

Students who plan to withdraw from any courses during an academic term should consult with a Financial Aid Counselor. Withdrawing from courses may prevent students from making Financial Aid Satisfactory Academic Progress. This could affect students' future financial aid eligibility.

Total withdrawal from the university is defined as dropping all classes for which a student is registered. Total withdrawal requires that a withdrawal form be submitted to the Registrar's Office.

When students withdraw from all courses on or before the 60% point in time of an academic term, the Office of Student Financial Assistance is required to review their financial aid awards to determine whether financial aid funds must be adjusted in accordance with federal and state regulations. The policies on treatment of financial aid for total withdrawal are specific to each designated financial aid program and are applicable only if the student has received those particular kinds of funds. If a student received various types of financial aid, more than one policy may apply when determining revised financial aid eligibility.

Adjustments to institutional, state (if Title IV financial aid was not received) and external financial aid follow the Marshall University Refund Policy. The chart below describes how institutional, state and external financial aid is treated whenever a student withdraws:

Treatment of Marshall University, State & External Aid for Total Withdrawal

Period of Withdrawal During a Semester	Percentage of Aid Returned to Program
During the first 10% of the term	90%
From 11% to 25% of the term	75%
From 26% to 50% of the term	50%

For example, if a student withdraws during the 5th week of the semester, the student would have 50% of his/her tuition charge reversed. Simultaneously, if a student received an institutional scholarship for the semester in the amount of $2,000, 50% or $1,000 of this scholarship would be returned to the respective financial aid program.

Treatment of Title IV (Federal) Aid for Total Withdrawal

The federal policy for return of Title IV funds maintains that a student retains only that portion of federal aid that the student has earned based on time in attendance before withdrawal. The percentage of time that the student attended an academic term determines the amount of federal aid that must be returned to the federal government. This federally mandated policy is independent of Marshall University's institutional refund policy due to withdrawal.

Marshall University, as required by federal statute, must recalculate federal financial aid eligibility for students who drop out, who withdraw, or who are dismissed, prior to completing 60% of the semester or the financial aid payment period.

When the student ceases to be enrolled prior to completing 60% of the semester or financial aid payment period, the Office of Student Financial Assistance applies the Federal Return of Title IV funds formula to determine whether any federal financial aid must be returned. The Federal Return of Title IV formula is calculated as follows:

Total # of Days Student Completes Until Withdrawal/Total # of Days in the Semester or Payment Period

This formula determines the percentage of the semester completed, which is the same percentage of earned financial aid.

Funds are returned to the appropriate federal program based on the percentage of unearned aid using the following formula:

(100% of the Aid That Could be Disbursed minus the % of Earned Aid) X Total Amount of Aid That Could Have Been Disbursed

Federal student aid refunds are returned to the following Title IV sources in the following order:

1. Unsubsidized Federal Direct Stafford Loan
2. Subsidized Federal Direct Stafford Loan
3. Federal Perkins Loan
4. Graduate Federal Direct PLUS Loan
5. Parent Federal Direct PLUS Loan
6. Federal Pell Grant
7. Federal SEOG Grant
8. Federal TEACH Grant
9. Iraq and Afghanistan Service Grant

If the student is a recipient of both Title IV and West Virginia state aid, the aforementioned policy applies to West Virginia state aid.

If a student earned less financial aid than was disbursed, Marshall University is required to return the unearned portion of the financial aid to the respective federal student aid programs. In some cases, if the student was issued a federal financial aid refund, he/she may be required to return all or a portion of the federal funds.

If the student (or Parent in the case of PLUS Loan) is required to return a portion or all of the loan proceeds, the calculated amount would not have to be returned through this calculation, but be repaid according to the loan's terms.

If a student qualifies for federal aid that has not yet disbursed and less aid is disbursed than earned, the student may receive a late disbursement for the difference.

When a student that has begun attendance fails to earn a passing grade (has a zero GPA) at the end of the semester, Marshall University, for federal student aid purposes, must assume that the student has unofficially withdrawn or dropped out. However, if the student has unofficially withdrawn (shows zero earned hours at the end of the semester), 50% of the student's federal student aid for the term is considered unearned and may result in a reduction of federal aid. However, when Marshall University can document attendance or participation beyond the 60% point in the semester, the student may be able to retain 100% of his/her federal student aid under these circumstances.

Marshall University has an official grading policy that provides instructors with the ability to differentiate between those students who complete the course but failed to achieve the course objectives and those students who did not complete the course.

Voter Registration Forms

Marshall University, as a participant in Federal Title IV Student Aid programs, is required to advise you that voter registration forms are available by visiting https://ovr.sos.wv.gov/Register/Landing (https://ovr.sos.wv.gov/Register/Landing/).

For additional information about any of the programs in this section, please contact the Office of Student Financial Assistance, Old Main Room 116. Telephone 304-696-3162; E-Mail Address: sfa@marshall.edu.

Student Financial Assistance

Financial Aid Application Process

To apply for financial aid, students must file the Free Application for Federal Student Aid (FAFSA) by visiting https://studentaid.gov/h/apply-for-aid/fafsa (https://studentaid.gov/h/apply-for-aid/fafsa/). By filing the FAFSA, students are considered for federal grants, scholarships, loans and work-study. In addition, when WV students file the FAFSA, they are also being considered for state and institutional financial aid. Students must enter Marshall University's Federal School Code: **003815** in Step 6 – of the FAFSA for consideration of all financial aid programs to attend Marshall University.

The **priority filing date for the FAFSA is March 1** prior to the academic year the student is attending for full consideration of all federal, state and institutional financial aid programs. Students may file the FAFSA after this date; however, certain financial aid opportunities may be missed.

In addition to the FAFSA, there is an additional application for students who wish to apply for financial aid for the summer. Marshall University Summer Financial Aid Applications are available on the first day of registration. Summer is a non-standard term. This requires the Office of Student Financial Assistance to collect additional information, which is not provided on the FAFSA. Summer is also considered a trailer for financial aid awarding purposes, meaning that the summer follows the completed academic year. For example, to apply for financial aid for the 2022 summer terms, the student must have a 2022 FAFSA on file. A 2022-23 FAFSA may also be used to consider Federal Pell Grant eligibility for summer. Submit a request by visiting https://www.marshall.edu/sfa/application-process/summer-financial-aid-eligibility-requirements/. Regardless of whether a student submits a request for summer aid, any student who enrolls in the summer and qualifies for a Pell Grant will be awarded.

Eligibility Determination

Student Aid Report

After filing the FAFSA, the student receives a Student Aid Report (SAR). When an email address is provided on the FAFSA, the SAR will be emailed; otherwise, it will be sent by regular mail. At the same time, Marshall University receives the results of the students' FAFSA. The needs analysis results provide an Expected Family Contribution (EFC), which is used to determine a student's financial aid eligibility.

Students have the ability to access their SAR by going to https://studentaid.gov/h/apply-for-aid/fafsa (https://studentaid.gov/h/apply-for-aid/fafsa/). Students will need their FSA ID to access their SAR.

Cost of Attendance

The Office of Student Financial Assistance determines your financial aid eligibility by subtracting your Expected Family Contribution (EFC) from your Cost of Attendance (COA). The information you report on your FAFSA is used in a formula established by the U.S. Congress, which determines your EFC. The COA that your financial aid package

is based upon reflects standard and reasonable costs. Your COA attendance includes average tuition and fees based on your residency (i.e., West Virginia, Metro[1], and Non-resident), enrollment status, and program of study. For actual tuition, fee, residence halls, and meal plan charges. please visit the Bursar website at www.marshall.edu/bursar (http://www.marshall.edu/bursar/).

Housing & food charges vary based upon residence hall assignment and meal plan. When you live on campus, you will be billed directly for your room and your meal plan. Marshall University policy requires all full-time freshmen and sophomores to live on campus. You may only request an exemption from this policy if your parent/legal guardian(s) live within 50 miles of campus, and you will be living at home with them in your permanent residence, by completing a Housing Release Request form. You may obtain the Housing Release Request form by visiting www.marshall.edu/housing/resources-and-services/forms (http://www.marshall.edu/housing/resources-and-services/forms/). The COA budget component for housing and meals for students who live with parents or reside in off-campus housing varies according to your personal circumstances. Marshall University does not charge you for these amounts, but they are part of your Financial Aid COA budget to determine your financial aid eligibility.

Your COA also includes allowances for books and supplies. Books and supplies costs vary based upon your particular program of study. Transportation and Miscellaneous expenses are also variable costs and can consume a large part of your educational expenses if you don't budget carefully. The Office of Student Financial Assistance estimates certain values for these variable cost components to determine your full COA. You may view your financial aid COA by accessing your Cost of Attendance via the Financial Aid portal within myMU, but you must review your student account to see your actual Marshall University charges.

In all cases, the total amount a student is awarded in financial aid, e.g., scholarships, grants, loans, and work-study, cannot exceed the cost of a Marshall University education. In some instances, when Title IV (certain federal financial aid programs) and certain WV Higher Education programs are awarded, students are limited to receive grants and scholarships up to the student's demonstrated financial need.

[1] Metro tuition/fees apply to students who reside in Gallia, Jackson, Lawrence, Meigs, Pike or Scioto Counties in Ohio and Boyd, Carter, Elliott, Floyd, Greenup, Johnson, Lawrence, Martin and Pike Counties in Kentucky.

Eligibility Confirmation

Using information reported on the FAFSA, the U.S. Department of Education performs data exchange with federal agencies to confirm that students meet basic eligibility requirements. The following student eligibility criteria are checked:

- Social Security number and citizenship status with the Social Security Administration
- Selective Service registration with the Selective Service System, if required
- Eligible non-citizenship status with the U.S. Department of Homeland Security
- Veteran Status with the U.S. Department of Veteran Affairs
- Default, disability discharge, bankruptcy, aggregate loan history statuses for federal student loans, overpayment status for federal student grants, and Pell Grant life-time limits

The Office of Student Financial Assistance must also review other eligibility requirements such as:

- Admission Status
- Satisfactory Academic Progress
- Enrollment Status
- Academic Level
- Dependency Status
- Marital Status
- Identity
- Unusual enrollment patterns
- Course Program of Study (https://www.marshall.edu/sfa/check-your-cpos/)
- Note: Federal student aid from Marshall University can only pay for classes that apply towards your degree or certificate at Marshall University. Be sure to monitor your DegreeWorks and communicate with your academic adviser to make sure you are in the right classes.

If any of the items are discrepant, the Office of Student Financial Assistance is required to resolve the issue. This may require the Office of Student Financial Assistance to follow up with the student to request documentation to resolve any discrepancies.

Verification

Verification is the process in which Student Financial Assistance (SFA) – as dictated by federal and state regulations – compares the information reported on the FAFSA with financial and other data including but not limited to the following items:

- Adjusted Gross Income
- U.S. Income Tax Paid
- Education credits
- Untaxed IRS distributions
- Untaxed pensions
- IRA deductions and payments
- Tax-exempt interest
- Income earned from work
- Household size
- Number in college
- Supplemental Nutrition Assistance Program (SNAP)
- Child Support paid
- High school completion status
- Identity/statement of educational purpose

Students who are selected for verification are sent notification instructing them to access their financial aid records by logging into myMU.

SFA must receive all requested documentation before financial aid can be disbursed (or credited) to the student's Bursar account. If there are differences between the data the student provided on the FAFSA and the verification documentation submitted, corrections to the SAR may be needed, and as a result, the student's application will be reprocessed.

Student responsibilities are to:

- Submit all documents requested promptly utilizing the links located at: https://www.marshall.edu/sfa/forms-applications/.
- Please note: In order to protect students' Personal-Identifiable Information (PII), the Office of Student Financial Aid does not retain paper documentation. Should you submit a paper document, we will scan and email this to your Marshall University email with instructions to upload this documentation to our secure dynamic forms. Please visit SFA Forms and Applications (https://www.marshall.edu/sfa/forms-applications/2223forms/) or your myMU for uploading.
- Maintain copies of all information used to file the FAFSA and of documents submitted to the Office of Student Financial Assistance.

It is extremely important that you respond to requests for information promptly because finalized **financial aid awards are processed in the order of file completion date**. To ensure that your financial funds disburse as scheduled at the start of the fall semester, you must be registered for classes and submit all required documentation by June 10. You may still submit documents after June 10; however, you should be prepared to make payment arrangements with the Bursar's Office in the event your financial aid is not finalized by the billing due date.

The deadline for submittal of all verification documents is **30 days prior to the end of the academic year/period** you are enrolled. This designated deadline allows SFA to process and authorize disbursements within the timeframe permitted under regulations set forth for administering the federal and state financial aid programs. Failure to provide requested documentation within this timeframe will result in cancellation of your financial aid offers.

The deadline for students to submit verification documentation may be extended up to 60 days after the student's last day of enrollment during the academic year/period on a case-by-case basis, and will be processed to the extent that is administratively possible.

A Federal Pell Grant applicant selected for verification must complete the process by the deadline published in the Federal Register.

You will be sent an email directing you to review your revised financial aid awards by logging into my MU and accessing your financial aid records when there are any changes as a result of verification.

Financial Aid Satisfactory Academic Progress

Satisfactory Academic Progress (SAP) is the term used to define successful completion of degree requirements to maintain eligibility for federal and state financial aid. As required by regulations, Marshall University must determine whether a student meets SAP requirements. SAP evaluation for undergraduate students occurs at the conclusion of each payment period, which is at the end of the fall semester, spring semester, and summer terms. Financial aid eligibility determination for a future term of enrollment cannot be done until SAP evaluation occurs.

The student's entire academic history must be considered when determining SAP status irrespective of whether or not the student received financial aid. This also includes Advance Placement (AP) and International Baccalaureate (IB) credits, as well as transfer credits that apply to a Marshall University degree.

Requirements of the SAP Policy

Qualitative (Grade Point Average)

The qualitative component measures the quality of the student's SAP by conducting a review of the student's cumulative grade point average (GPA). To meet the qualitative requirement, the student must have a minimum cumulative Marshall University and an overall GPA of at least a 2.0. Credits accepted from other schools that may be applied to a Marshall University degree are counted in the calculation of the student's GPA, thus, are included in the qualitative measure.

(Specific external and institutional scholarships, assistantships, and grants may require a different minimum GPA for continued eligibility. This consideration is a separate and distinct factor in renewing or continuing eligibility for these specific financial aid funds. Information about the terms and conditions of specific student aid programs that have GPA and credit completion requirements is provided to the student at the time the award is offered. This information may be reviewed by logging into myMU and accessing financial aid award records.)

Quantitative Measure (Calculating Pace or Completion Ratio)

The quantitative component corresponds to the pace at which the student must progress through his or her program of study. This evaluation is to ensure completion within the maximum timeframe (see below) permitted and provides for the measurement of the student's progress at the end of each period of enrollment. Pace or completion ratio is calculated by determining the cumulative number of credit hours the student has successfully completed divided by the number of cumulative credit hours the student has attempted. Credits accepted from other schools that may be applied to a Marshall University degree are counted in the calculation as both attempted and completed hours. To meet the quantitative requirement, the student's completion ratio must be 67% or higher.

Maximum Time Frame Measure

The maximum timeframe is a period of no longer than 150 percent of the published length of the education program as measured in credit hours. To meet the maximum timeframe requirement, the following rules apply:

Undergraduate Pursuing an Associate Degree
Not to exceed 100 attempted credit hours

Undergraduate Pursuing a Baccalaureate Degree
Not to exceed 180 attempted credit hours

Undergraduate who has an Associate Degree and is pursuing a 2nd Associate Degree
Not to exceed 130 attempted credit hours

Undergraduate who has a Baccalaureate Degree and is pursuing an Associate Degree
Not to exceed 210 attempted credit hours

Undergraduate who has a Baccalaureate Degree and is pursuing a 2nd Baccalaureate Degree
Not to exceed 240 attempted credit hours

In addition to the three measures referenced above to determine a student's SAP, a student who is placed on Academic Probation or Academic Suspension by his or her school or college based on University academic policy is considered ineligible for financial aid.

Effects of Remedial, Repeated, and Pre-requisite Courses

Remedial or developmental courses do not count toward the student's degree requirements, but they are counted as earned hours and are used to determine a student's academic grade level or classification. Hence, they are calculated according to the rules set forth in this policy. (Financial aid may be awarded to cover up to 30 remedial course credits. Remedial course credits in excess of 30 cannot be calculated as enrolled hours for financial aid purposes. This rule is not related to SAP but is a general financial aid eligibility requirement.)

If the student repeats a course, those credits are counted again when calculating attempted credits. However, if the student repeats a course in which he or she has earned a D or F grade taken no later than the semester or summer term during which the student attempts the 60th semester hour, and before he or she earns a baccalaureate degree, the student may have the D/F Repeat rule applied. When the D/F Repeat rule is applied, the original grade shall be disregarded, and the new grade (excluding a W) shall be used in determining the student's GPA.

(Coursework that a student repeats may be included when determining a student's enrollment status for Title IV-federal student aid purposes as long as it is not a result of 1) more than one repetition of a previously passed course, or 2) any repetition of a previously passed course due the student failing other coursework. This rule is not related to SAP but is a general financial aid eligibility requirement.)

Pre-requisites or preparatory courses are those in which a student must complete in order to meet admission requirements for a graduate or professional program. They do not count toward the student's degree requirements; however, they are calculated according to the rules set forth in this policy.

Effects of Withdrawal and Incomplete Grades

If the student withdraws from a course after the first week of classes during any given semester (i.e., student receives a grade of "W" for the course), the course credits are included in the count of attempted credit hours. Thus, withdrawn courses are calculated in the quantitative and maximum time frame measures. Credits for an incomplete course (i.e., student receives a grade of "I" for the course), are counted as credits attempted for quantitative and maximum timeframe measures, but are not included in the GPA or the credits earned count until the incomplete grade changes to a passing or failing grade.

Effect of Change in Major

If a student changes his or her major, all the credits the student earns toward any Marshall University undergraduate degree will be included in the calculation of qualitative, quantitative and maximum time frame measures.

SAP Definitions

Financial Aid Warning

Financial Aid Warning status is assigned to a student who fails to meet one or more of the SAP measures at the conclusion of a payment period. Students placed on Financial Aid Warning will be notified by email and directed to log into myMU to review their SAP record. The student may continue to receive financial aid for one subsequent payment period under this status despite the determination that the student is not making SAP. Students who do not enroll during the period in which the Financial Aid Warning period was assigned will forfeit that status.

Financial Aid Probation

Financial Aid Probation status is assigned to a student who fails to make SAP (following Financial Aid Warning status) and who has successfully appealed. A student who is placed on Financial Aid Probation may receive financial aid for one subsequent payment period. A student on Financial Aid Probation may be required to meet certain terms and conditions while on Financial Aid Probation, such as taking a reduced course load or taking specific courses. A student assigned a Financial Aid Probation status will be placed on a Financial Aid Academic Plan. At the conclusion of the SAP Academic Probation payment period, the student must either meet the SAP standards or fulfill the requirements specified in the Financial Aid Academic Plan.

SAP Appeal Procedures

If a student fails one or more of the three measures (qualitative, quantitative and maximum time frame) or is placed on Academic Probation or Academic Suspension, the student is not eligible for federal and state financial aid including grants, scholarships, work-study and loans. Students failing SAP standards who have had mitigating circumstances (e.g., death in the family, illness, involuntary military leave), however, may request reinstatement of their financial aid eligibility by completing the SAP Appeal for Financial Aid Reinstatement Form located at: https://www.marshall.edu/sfa/forms-applications/2223forms/ (https://www.marshall.edu/sfa/forms-applications/2223forms/)by the published deadlines.

The appeal must include the following:

1. A completed and valid 2022-23 Free Application for Federal Student Aid (FAFSA) by the deadline dates specified below;
2. Not be in Federal Student Loan Default or owe a Title IV (Federal) Student Aid Overpayment;
3. Detailed explanation for failure to meet SAP standards for each payment period the student failed to perform satisfactorily;
4. Documentation to support the reason for failure (medical form, death certificate, etc.);
5. Detailed explanation of what has changed that will now allow the student to comply with SAP standards, a statement of academic objectives, and corrective action plan.

SAP Appeal Deadlines

Semester/Term	Date
Fall Semester	Tuesday of the week before the start of classes
Spring Semester	Tuesday of the week before the start of classes
Summer Terms	Last Friday of June

SAP Appeals Committee and Decision

The SAP Appeals Committee is composed of representatives from the Office of Student Financial Assistance. Students will be notified by email and directed to log into myMU to review the decision of the SAP Appeals Committee. The decision of the SAP Appeals Committee is final; however, the student may appeal again by the published deadlines for a future payment period.[1]

If the appeal is approved, the student is placed on Financial Aid Probation and the student's financial aid eligibility is reinstated for one subsequent payment period. During the Financial Aid Probation period, the student may be required to fulfill certain conditions for financial aid reinstatement. In addition, all students placed on

Financial Aid Probation must follow the Financial Aid Academic Plan explained below. At the conclusion of the payment period, if the student meets the standards of SAP, the Financial Aid Probation status will be removed. If not, the student's academic performance for the term will be evaluated against the student's Financial Aid Academic Plan.

Financial Aid Academic Plan

The academic plan requires students to complete 80% of the attempted coursework (100% if the student failed the maximum timeframe measure) and earn a minimum 2.1 GPA for the payment period the student is on SAP Academic Probation. If the student meets the requirements of the Financial Aid Academic Plan, the student will be assigned continued Financial Aid Probation for a subsequent payment period. (The FA Academic Plan is separate and distinct from an Academic Improvement Plan, which is required of students who fail to maintain a minimum 2.0 Marshall or overall GPA.) If the student fails to meet SAP standards or the requirements set forth in the Financial Aid Academic Plan, the student will be deemed ineligible for financial aid, but may appeal again for a future payment period by published deadlines. A student who has a change made to his or her academic transcript (i.e., grade change) during the semester in which the student is ineligible, on Financial Aid Warning or Financial Aid Probation, may request a SAP re-evaluation.

[1] If the appeal is denied, the student will be responsible for paying tuition and/or fees or officially withdrawing from classes before the refund deadline.

Enrollment Status/Enrollment Classification

Each type of financial aid (program) has specific requirements regarding enrollment status. In general, SFA uses the following undergraduate enrollment criteria to determine eligibility for financial aid programs it administers:

Credits per Term/Semester	Enrollment Status Classification
12 +	Full time
9 – 11	Three-quarter time
6 – 8	Half time
1 – 5	Less than half time

As a rule a student's financial aid package is based on full-time enrollment and the Office of SFA uses the enrollment status on the first day after drop/add period (usually the 8th day of the semester) to determine financial aid eligibility. Only courses that apply to the student's degree may be included to determine the student's enrollment status for federal student aid eligibility.

Academic Level Classification

Some financial aid programs have specific criteria based on the student's academic (grade) level. According to University Academic Policy, the following criteria are used to define the student's academic level:

Total Credits Earned	Academic Level
0 – 29	1st Year or Freshman
30 – 59	2nd Year or Sophomore
60 – 89	3rd year or Junior
90 +	4th Year or Senior

Dual Enrollment and Study Abroad

Marshall University students who plan to enroll at another college or university simultaneously may have their other enrollment elsewhere considered for financial aid eligibility at Marshall University.

Students may not receive federal financial aid at more than one institution of higher education for the same courses or at the same time. Students must declare which institution is to be considered the "home school" or the institution where they will receive their degree for financial aid eligibility purposes. To be considered for financial aid as a dually enrolled student or a student taking courses elsewhere during a given semester, a consortium agreement form must be completed and approved by both Marshall University and the other school.

Types of Aid Available

Financial aid is funding for college education that comes from sources outside of the student's family. Gift aid and self-help aid are the two categories of financial aid. Gift aid comes in the form of grants and scholarships and usually does not have to be repaid. Self-help aid comes in the form of loans and work-study. Financial aid at Marshall University is awarded based on financial need, merit, or both. Students may receive a combination of grants, scholarships, loans, and work-study in their Financial Aid Package. Sources of funding come from Marshall University, the federal government, the state and other entities.

The types of financial aid programs listed below are available at Marshall University for undergraduate students:

- Merit-Based Scholarships and Grants
- Need-based Grants
- Loan Programs
- Student Employment
- Veteran Education Benefits
- Foundation Scholarships

For current and more detailed information on types of financial aid available, please visit www.marshall.edu/sfa (https://www.marshall.edu/sfa/)/types-of-aid (https://www.marshall.edu/sfa/types-of-aid/).

Notification and Disbursement of Awards

Checking Financial Aid Records

Students may access their financial aid records by logging on to their myMU account. MyMU is the student's campus web portal used to provide students with easy online access to their Marshall University records.

In order to log into myMU, students must have both their unique MUNet account and password. Any student that has problems accessing their myMU records should email servicedesk@marshall.edu or call 1-877-689-8638.

Understanding Financial Aid Awards & Requirements

Online financial aid notification via the student's myMU account is the official method by which students receive information regarding their financial aid application and awards.

Email is the primary means of communication between students and the Marshall University Office of Student Financial Assistance. Emails are sent to the student's Marshall University email account. It is the student's responsibility to monitor email notifications from the Office of Student Financial Assistance as well as from other university offices. Failure to read and respond to email communications from the Office of Student Financial Assistance may result in delay or cancellation of financial aid awards.

Once you access your financial aid records within the Financial Aid Main Menu tab, you will be able to view the following topics:

- Financial Aid Status
- Requirements
- Eligibility
- Awards

Disbursement of Financial Aid (or Financial Aid Crediting to your Billing Account)

The earliest financial aid may credit to a student's billing account is 10 days before the semester begins. However, financial aid will not credit to the student's account unless all eligibility requirements have been met and verification has been completed. In addition, if the student is taking out a student loan, the student must have completed entrance loan counseling and completed a master promissory note for the respective loan program.

Pending financial aid is a temporary status and is used for financial planning purposes only. Pending financial aid allows the Bursar Office to defer payment of student's tuition, fees, residential and board payments until the financial aid is finalized and credited to the student's Bursar account. Students are responsible for making payment for the difference between bursar charges and financial aid awards by the designated due dates established by the University.

Financial aid awards are not final until they have credited to the student's account.

Payment Plan Option

Under the Marshall University **OASIS Payment Plan**, students may select to make three equal payments of their outstanding charges for the fall or spring semester after any applicable financial aid has been applied. For more information, visit www.marshall.edu/bursar (https://www.marshall.edu/bursar/).

Refunds Due to a Financial Aid Credit Balance

When financial aid for the semester/term exceeds a student's direct charges (tuition, fees, etc.) on the student bill, the student is entitled to a refund for the difference for use toward other educational expenses. The Bursar's Office issues refunds to students beginning the first day of classes. Only those students whose financial aid was credited 10 days prior to the semester/term with a credit balance will receive a refund on the first day of the semester/term. Following the first day of the semester/term, it takes approximately one week after financial aid is disbursed for the Bursar Office to issue a financial aid refund to a student.

Visit the Bursar website at www.marshall.edu/bursar (https://www.marshall.edu/bursar/) for more information on financial aid refunds.

Impact on Financial Aid Due to Withdrawal or Failure to Enroll

Students could jeopardize receipt of some types of aid if they are not properly enrolled at the time that financial aid funds disburse. Students may have originally been packaged as a full-time student, but at the time the funds are ready to disburse, students' enrollment status may differ. Students' change in enrollment may affect the eligibility for certain funds.

If a student does not attend for a period of enrollment that he/she has been awarded financial aid, the Office of Student Financial Assistance must cancel all financial aid awards offered. Upon re-enrollment, the student may request assistance again, but, because awards are based on the availability of funds, funding may be limited.

Students who plan to withdraw from any courses during an academic term should consult with a Financial Aid Counselor. Withdrawing from courses may prevent students from making Financial Aid Satisfactory Academic Progress. This could affect students' future financial aid eligibility.

Total withdrawal from the university is defined as dropping all classes for which a student is registered. Total withdrawal requires that a withdrawal form be submitted to the Registrar's Office.

When students withdraw from all courses on or before the 60% point in time of an academic term, the Office of Student Financial Assistance is required to review their financial aid awards to determine whether financial aid funds must be adjusted in accordance with federal and state regulations. The policies on treatment of financial aid for total withdrawal are specific to each designated financial aid program and are applicable only if the student has received those particular kinds of funds. If a student received various types of financial aid, more than one policy may apply when determining revised financial aid eligibility.

Adjustments to institutional, state (if Title IV financial aid was not received) and external financial aid follow the Marshall University Refund Policy. The chart below describes how institutional, state and external financial aid is treated whenever a student withdraws:

Treatment of Marshall University, State & External Aid for Total Withdrawal

Period of Withdrawal During a Semester	Percentage of Aid Returned to Program
During the first 10% of the term	90%
From 11% to 25% of the term	75%
From 26% to 50% of the term	50%

For example, if a student withdraws during the 5th week of the semester, the student would have 50% of his/her tuition charge reversed. Simultaneously, if a student received an institutional scholarship for the semester in the amount of $2,000, 50% or $1,000 of this scholarship would be returned to the respective financial aid program.

Treatment of Title IV (Federal) Aid for Total Withdrawal

The federal policy for return of Title IV funds maintains that a student retains only that portion of federal aid that the student has earned based on time in attendance before withdrawal. The percentage of time that the student attended an academic term determines the amount of federal aid that must be returned to the federal government. This federally mandated policy is independent of Marshall University's institutional refund policy due to withdrawal.

Marshall University, as required by federal statute, must recalculate federal financial aid eligibility for students who drop out, who withdraw, or who are dismissed, prior to completing 60% of the semester or the financial aid payment period.

When the student ceases to be enrolled prior to completing 60% of the semester or financial aid payment period, the Office of Student Financial Assistance applies the Federal Return of Title IV funds formula to determine whether any federal financial aid must be returned. The Federal Return of Title IV formula is calculated as follows:

Total # of Days Student Completes Until Withdrawal/Total # of Days in the Semester or Payment Period

This formula determines the percentage of the semester completed, which is the same percentage of earned financial aid.

Funds are returned to the appropriate federal program based on the percentage of unearned aid using the following formula:

(100% of the Aid That Could be Disbursed minus the % of Earned Aid) X Total Amount of Aid That Could Have Been Disbursed

Federal student aid refunds are returned to the following Title IV sources in the following order:

1. Unsubsidized Federal Direct Stafford Loan
2. Subsidized Federal Direct Stafford Loan
3. Federal Perkins Loan
4. Graduate Federal Direct PLUS Loan
5. Parent Federal Direct PLUS Loan
6. Federal Pell Grant
7. Federal SEOG Grant
8. Federal TEACH Grant
9. Iraq and Afghanistan Service Grant

If the student is a recipient of both Title IV and West Virginia state aid, the aforementioned policy applies to West Virginia state aid.

If a student earned less financial aid than was disbursed, Marshall University is required to return the unearned portion of the financial aid to the respective federal student aid programs. In some cases, if the student was issued a federal financial aid refund, he/she may be required to return all or a portion of the federal funds.

If the student (or Parent in the case of PLUS Loan) is required to return a portion or all of the loan proceeds, the calculated amount would not have to be returned through this calculation, but be repaid according to the loan's terms.

If a student qualifies for federal aid that has not yet disbursed and less aid is disbursed than earned, the student may receive a late disbursement for the difference.

When a student that has begun attendance fails to earn a passing grade (has a zero GPA) at the end of the semester, Marshall University, for federal student aid purposes, must assume that the student has unofficially withdrawn or dropped out. However, if the student has unofficially withdrawn (shows zero earned hours at the end of the semester), 50% of the student's federal student aid for the term is considered unearned and may result in a reduction of federal aid. However, when Marshall University can document attendance or participation beyond the 60% point in the semester, the student may be able to retain 100% of his/her federal student aid under these circumstances.

Marshall University has an official grading policy that provides instructors with the ability to differentiate between those students who complete the course but failed to achieve the course objectives and those students who did not complete the course.

Voter Registration Forms

Marshall University, as a participant in Federal Title IV Student Aid programs, is required to advise you that voter registration forms are available by visiting https://ovr.sos.wv.gov/Register/Landing (https://ovr.sos.wv.gov/Register/Landing/).

For additional information about any of the programs in this section, please contact the Office of Student Financial Assistance, Old Main Room 116. Telephone 304-696-3162; E-Mail Address: sfa@marshall.edu.

Learning Opportunities and Resources

Academic Advising

Sarah Davis, Director of Undergraduate Academic Advising, 304-696-2669
Chris Atkins, Associate Director of Advising Technologies, 304-696-3252
Smith Communications Building 212
advising@marshall.edu
www.marshall.edu/advising (https://www.marshall.edu/advising/)

The Office of Undergraduate Academic Advising coordinates advising practices and policies across all colleges. Each college has its own unique academic advising structure. All students are strongly encouraged to consult their dean's office for information regarding advisor assignments, curriculum requirements and support services.

The Office of Undergraduate Academic Advising also provides technological support for advising tasks including the coordination of EAB's Navigate advising platform, the Navigate App and Academic Planning. The Navigate advising platform allows coordination of student advising appointments and serves as a repository for appointment reports and notes on student/advisor interactions. The Navigate app puts the Marshall advising curriculum directly in the hands of the students. With tips and to-do's, in addition to other resources, the Navigate App serves as a resource in the student's pocket. These two platforms serve to enhance the advising experience for faculty, staff and students at Marshall University, providing the tools for effective coordination and support from faculty and staff and the resources to allow students to take ownership of and prepare for a successful college career.

Campuses and Centers

South Charleston Campus
100 Angus E. Peyton Drive
South Charleston, WV 25303-1600
304-746-2500
schas@marshall.edu

Marshall University's South Charleston campus is dedicated to making higher education opportunities more accessible to people living in the Kanawha Valley and surrounding counties. The South Charleston campus delivers general education core courses, special interest courses, and college courses in the high schools. We offer courses to meet the needs of traditional-age college students, nontraditional adult students, and accelerated high school students.

Regional Centers

Mid-Ohio Valley Center, Point Pleasant
304-674-7200
www.marshall.edu/movc (http://www.marshall.edu/movc/)
movc@marshall.edu

Erma Byrd Higher Education Center, Beckley
304-256-0266, ext 1.

Career Education

Cristina McDavid, Director
career@marshall.edu
www.marshall.edu/careereducation (http://www.marshall.edu/careereducation/)

The Office of Career Education assists students in all phases of professional development leading to a career including self-assessment of skills, interests, and career goals as well as exploring and declaring a major. Career Coaches also guide students in effective resume building and interviewing skills. In addition, students are offered practical, hands-on techniques for networking and searching for part-time, internship, and entry-level employment.

The office is located on the corner of 5th Avenue and 17th Street (Huntington).

Center for African American Students

East Hall 215/304-696-6705
polk4@marshall.edu
www.marshall.edu/caas (http://www.marshall.edu/caas/)

The Center for African American Students (CAAS), under the auspices of the Office of Intercultural Affairs, is a historically significant program that serves as a catalyst for involving and supporting the African or African American student's academic and personal success toward college graduation and an accomplished professional career in his/her chosen field of study.

The CAAS home provides a pleasant and centrally located office setting where students may relax, study, debate and connect with others. Everyone is welcome...and soon realize that the center is a "home away from home" to all students who enter.

Student Benefits

- Progressive academic and personal advising and problem solving
- Career and majors advising
- Mentoring services
- General guidance and crisis management
- University information and solution-oriented networking

The center has a vital role in the recruitment and retention of African American students through unique program offerings and programs for scholars. The CAAS often collaborates with the Office of Recruitment and various university colleges for the purpose of strengthening recruiting initiatives for African American students. This program provides administrative oversight for Black United Students and the Society of Black Scholars, and offers more than 30 programs and activities each academic year, which include the MU Annual Diversity Breakfast, Annual Outstanding Black High School Student Weekend, Women of Color Day, Donning of Kente, MU Unity Walk, Annual Diversity Plenary, African American History Bowl, Annual Soul Food Feast, lecture series, urban and cultural travel outings, and many others.

Center for Environmental, Geotechnical, and Applied Sciences

1207 Weisberg Applied Engineering Complex/304-696-4748
cegas@marshall.edu
www.marshall.edu/cegas (http://www.marshall.edu/cegas/)

The Center for Environmental, Geotechnical, and Applied Sciences was established in May 1993 through the cooperative effort of the presidents of Marshall University and West Virginia Graduate College. The goal of the center is to forge close working relationships among the business community, higher education institutions, and government agencies, in technology related endeavors. The center has been involved since its inception with educational offerings, research, service, and long-term planning for regional development.

Center for Teaching and Learning

Karen McComas, Executive Director
109 Old Main/304-696-2206
ctl@marshall.edu
www.marshall.edu/ctl (http://www.marshall.edu/ctl/)

The mission of the Center for Teaching and Learning (CTL) is to empower faculty in their teaching and research by cultivating a campus culture that values pedagogical, disciplinary, and program-based inquiry in support of student learning. More specifically, CTL provides opportunities for faculty to engage with, and develop, the instruments of teaching and learning (e.g., curricula and pedagogy) and the processes of teaching and learning (e.g., data-driven teaching strategies, reflective and metacognitive practices). In addition to professional development opportunities, the center administers the annual faculty awards, conducts classroom observations, directs a New Faculty Orientation program, hosts an annual teaching conference, and maintains a library of resource books related to a variety of teaching and learning topics. Housed within CTL are the Writing Across the Curriculum and Community-Based Learning programs.

Writing Across the Curriculum

Jill Underhill, Director
Smith Hall 717
304-696-6156
www.marshall.edu/ctl/writing-across-the-curriculum (http://www.marshall.edu/ctl/writing-across-the-curriculum/)

All Marshall University undergraduates must take two courses with the Writing Intensive designation, sometimes called a WAC class. Created to reinforce writing skills in classes outside of English composition, writing intensive classes engage students directly in the subject matter of the course through a variety of activities that focus on writing as a means of learning. Some of these activities are informal, ungraded class exercises that teach (among other things) critical thinking, organization and synthesis of diverse elements, summarizing skills, and awareness among students of their own learning processes. Other activities, formal and graded, teach these same skills through careful revision and rethinking, peer evaluation, and reformulation into a finished product. These class projects use writing as a means of engaging the mind, body, and spirit of students in the activity of learning a particular subject matter. Writing intensive classes make students aware that writing is a necessary and frequently used skill no matter what their occupation will be, and they prepare students for writing in their careers and in their personal and community lives.

Community-Based Learning

Sandra Kemper, Director
Smith Hall 131B
304-696-3577
www.marshall.edu/cbl (http://www.marshall.edu/cbl/)

The Marshall University Community-Based Learning program assists faculty, students, and community partners in course-specific collaborations that connect learning objectives to public service and civic engagement. The combination of Community-Based Learning and academic theory enhances personalized education for students and creates opportunities to connect key course concepts with relevant real-world experiences. Engaging the community empowers students as learners, teachers, achievers, and leaders as students can make a more meaningful and long-term impact on Marshall University and in the community. CBL will empower students who want to become more involved with the community and who wish to learn in an interactive, transformative environment. Community-Based Learning is a mechanism by which the university mission is enhanced. A course in which all learning is passive memorization and library research will not create an environment wherein students can reach their full learning potential. Therefore, the inclusion of CBL in coursework enhances student research skills and offers them an opportunity to participate in community transformations. CBL coursework provides an element of pedagogy that propels students towards future successes. Participating in Community-Based Learning courses also provides students with the tools they need to be successful in the working world, providing resume-building opportunities and potential contacts for employment.

Child Development Academy

520 22nd Street/304-696-5803
Susan Miller, Director
millers@marshall.edu
www.marshall.edu/cda (http://www.marshall.edu/cda/)

The Child Development Academy at Marshall University provides child care services to children of Marshall University students, faculty, staff and the greater community. It serves as a location for Marshall University undergraduate and graduate students participating in various clinical experiences as part of their academic program. The programs currently placing university students at the Child Development Academy are Early Education and Psychology. The facility was opened in August of 1999 and the construction was a joint venture of Marshall University and the City of Huntington.

Digital Media Services (formerly Instructional Television and Video Services)

Eric Himes, Director}
102B Communications Building/304-696-2974
www.marshall.edu/it (http://www.marshall.edu/it/)
ITVS@marshall.edu

Drinko Academy

Montserrat Miller, Executive Director
Old Main 211/304-696-3183
www.marshall.edu/drinko/ (http://www.marshall.edu/drinko/)
drinko@marshall.edu

The John Deaver Drinko Academy is devoted to enhancing public understanding of American institutions and the responsibilities of citizens to their society, particularly our sense of shared values and common purpose. The efforts of the Center are designed to counteract the erosion of our civil culture, evident in the steady decline of citizens' participation in voting and jury duty, despite an expansion of the franchise in the 20th Century and federal laws protecting voting rights. The Center is named for the late Dr. John Deaver Drinko, a 1942 Marshall graduate and senior managing partner of Baker & Hostetler, one of the nation's largest law firms. He and his wife, Elizabeth Gibson Drinko, were longtime significant supporters of academic programs at Marshall.

The heart of the Drinko Center is a core of several distinguished visiting professors who are given a great deal of latitude to create courses and engage in other educational and scholarly activities that address the mission of the Drinko Center. Along with the Distinguished Visiting Professors, faculty from various departments are appointed on a rotating basis as Drinko Academy Fellows.

Higher Education for Learning Problems (H.E.L.P.)

Debbie Painter, Director
Myers Hall/304-696-6316
help@marshall.edu
www.marshall.edu/help/ (http://www.marshall.edu/help/)

Higher Education for Learning Problems (H.E.L.P.) Program was established in 1981. H.E.L.P. provides qualified college students who have Learning Disabilities and/or Attention Deficit Disorder (ADD) the rights they are guaranteed under Section 504 of the Rehabilitation

Act and the Americans with Disabilities Act. The program offers these services:

- Assessment to determine presence of LD and/or ADD.
- Tutoring by Graduate Assistants in coursework, note-taking, study skills, organization and memory improvement.
- Remediation in reading, math, spelling, and written language skills by Learning Disabilities Specialists.
- Liaison among professors, H.E.L.P., and students.
- Arrangement for accommodations in testing.
- Counseling for problems with self esteem and severe test anxiety.

Application to H.E.L.P. must be made separately from application to the university and should be completed no fewer than six months in advance.

Honorary Societies

The following honorary and professional societies maintain active chapters on the Marshall campus. For contact information, call the Office of Student Organizations at 304-696-2283.

- Alpha Delta Sigma (advertising)
- Alpha Epsilon Delta (pre-medicine)
- Alpha Epsilon Rho (broadcasting)
- Alpha Kappa Delta (sociology)
- Alpha Phi Sigma (criminal justice)
- Alpha Psi Omega (theater)
- Beta Alpha Psi (accounting, finance, information systems)
- Beta Gamma Sigma (business)
- Delta Epsilon Chi (marketing education)
- Delta Omicron (music)
- Eta Sigma Phi (Classics)
- Gamma Beta Phi (honor, service)
- Gamma Theta Upsilon (geography)
- Kappa Delta Pi (education)
- Kappa Kappa Psi (band)
- Kappa Omicron Nu (family and consumer science)
- Kappa Omicron Phi (home economics)
- Lambda Alpha Epsilon (criminal justice)
- Lambda Pi Eta (communication studies)
- National Society of Collegiate Scholars (first and second Year honorary)
- Omicron Delta Epsilon (economics)
- Omicron Delta Kappa (leadership, scholarship)
- Phi Alpha Theta (history)
- Phi Eta Sigma (national freshman honorary)
- Phi Kappa Phi (all academic disciplines, junior/senior/graduate students)
- Pi Kappa Delta (forensics)
- Phi Theta Kappa (Community and Technical college)
- Pi Mu Epsilon (mathematics)
- Pi Omega Pi (office technology)
- Pi Sigma Alpha (political science)
- Psi Chi (psychology)
- Scabbard and Blade (military science)
- Sigma Delta Pi (Spanish)
- Sigma Theta Tau (Nursing)
- Sigma Tau Delta (English)
- Upsilon Pi Epsilon (computer science)

Housing and Residence Life

Mistie Bibbee, Director
Holderby Hall/304-696-6765
housing@marshall.edu

The Department of Housing and Residence Life is committed to the development and academic success of its students. Working in partnership with students and other members of the Marshall community, the Department of Housing and Residence Life is structured to provide a residential experience that supports and enhances students' learning, personal growth, and academic achievement. We foster and nurture inclusive communities, create social and educational opportunities to enhance student development, and provide each student with a safe, quality, living experience that supports the educational goals of the university.

Housing and Residence Life efforts are guided by several commitments to our students: to compliment and support the core academic mission of the university; to provide co-curricular learning opportunities that support the classroom experience; to offer students a residential environment that values and supports diversity; to provide a residential environment that safeguards and augments all aspects of student wellness, including academic, physical, educational, emotional, cultural, and spiritual development and health; to establish a residential environment in which students explore their independence and interdependence, becoming part of a community in which they develop a better understanding of the impact of others on themselves, and their own impact on others; and to provide a dedicated and competent staff that will continually look for new and better ways to increase the efficiency of the department and the services we provide to our students.

Living on campus provides students with a unique living experience that cannot be found through living off campus. Housing and Residence Life continues to provide safe, supportive, and well-maintained residential environments which complement students' educational experiences during their stay here at Marshall.

Living-Learning Communities

Living-Learning Communities place students who share a common academic interest together on one floor of a residence hall. The students benefit not only from informal interaction with others who share their goals and interests, and who in many cases will also be in the same classes, but will also have opportunities to participate in informal activities planned by the faculty and residence hall staff and geared to their specific interests.

Students may find information on specific living-learning communities by calling 1-800-438-5391 or by visiting www.marshall.edu/housing (http://www.marshall.edu/housing/). Students may request to participate in a living-learning community along with their regular housing application, or submit the request separately if they have already applied for housing.

Information Resources and Customer Service

Jody Perry, Executive Director
122 Drinko Library /304-696-3226
Jody.perry@marshall.edu

Computing Facilities

Information Technology manages a number of computing facilities that provide access to MUNet-connected workstations for the campus community. Information Technology managed public computers, including those in the Drinko 24-Hour Study Center, will always have the latest versions of software available. University Computing facilities are currently available in Corbly Hall, Harris Hall, Smith Hall, the Drinko Library and Information Technology Center in Huntington; and in the administration and academic buildings in South Charleston. All University Computing Facilities provide printing and scanning facilities. Other specialized facilities are available at selected sites.

Computer Accounts

As a Marshall student, you automatically have a MUNet generated for you. Students attending Orientation are provided their MUNet account usernames and passwords. Students may also receive their login credentials by taking your Marshall University ID to the Information Technology Service Desk located on the first floor of the Drinko Library, or the South Charleston Information Technology office. Students may also look up MUNet usernames and change passwords by visiting www.marshall.edu/id (http://www.marshall.edu/id/).

Information Technology Service Desk

The IT Service Desk is located on the first floor of the Drinko Library. Co-Located with the MUID office, the Service Desk provides 24 hour support for your technology needs. The Service Desk is available via

- telephone (304-696-3200),
- email (ITServiceDesk@marshall.edu),
- WebChat (www.marshall.edu/it/ (http://www.marshall.edu/it/)) or
- walk-up service in the Drinko Library.

Information Technology Office

305 Drinko Library/304-696-3900
cio@marshall.edu
www.marshall.edu/it (http://www.marshall.edu/it/)

The Marshall University Information Technology office is located in the third floor administrative suite of the Drinko Library. Information Technology (IT) is committed to improving the efficiency and effectiveness of every aspect of technology throughout Marshall University by promoting and supporting Information Technology applications as a means of enhancing teaching/learning and administrative operations. The IT Office integrates instructional technology, web delivery methods, and computing resources for all Marshall University campuses and centers. This office leads the development of an integrated information technology environment. By actively aiding and enhancing the academic and support activities of the University, IT delivers support and services that help faculty, staff, and students achieve Marshall University technology goals.

Information Technology Infrastructure and Enterprise Applications

it@marshall.edu
www.marshall.edu/it (http://www.marshall.edu/it/)

The administrative offices are located on the fourth floor of the Drinko Library on the Huntington Campus.

Online Support

At the IT website, students and staff can find the most up-to-date information. IT exists to provide information, facilitate communications with its customers, and provide a secure source for downloading software. One example of downloadable software is the free anti-virus software, which the university licenses for all users; other software is available. Go there and get yours now at www.marshall.edu/it (http://www.marshall.edu/it/).

MUNet

MUNet is a fiber optic 10 GigE and 1 GigE backbone connecting all campus buildings throughout the campus. The network provides 10/100/1000M connectivity for voice, video and data across a copper infrastructure. MUNet is linked to the Internet via redundant high-speed digital MPLS service. MUNet can also be accessed from off campus through free virtual private networking (VPN) software available on the UCS web site at www.marshall.edu/it (http://www.marshall.edu/it/). The same VPN software allows users to connect to the MUWireless network when on campus in the vicinity of a wireless network access point. Wireless 802.11a/b/g/n connectivity is available throughout campus, and current coverage levels are available at https://www.marshall.edu/it/wifi-map/.

Servers and Systems

Central timeshare and server facilities include more than 250 servers and systems, running Microsoft Windows Server and Red Hat Enterprise Linux. These systems provide timeshare, file, print, database, email, Library, and web based services to the MUNet community. A wide variety of software products are available to MUNet users including administrative software based on Ellucian's BANNER products, office automation products (word processors, spreadsheets, electronic mail, document production, electronic filing, calendar/time management, and other groupware functions), computer instruction, programming languages, query/data base packages, electronic reference databases, presentation products, courseware delivery, and electronic publishing packages.

Intercultural Affairs

Shaunte Polk, Director
East Hall 233 / 304-696-6705

Marshall University established the Division of Multicultural Affairs in 1989. By weaving it into the mission of the institution, Marshall University affirmed its commitment to an environment of teaching and learning which recognizes and welcomes diversity of race, color, sex, sexual orientation, age, religion, national origin, marital status, political and ethnic backgrounds. Consistent with its awareness of different people, backgrounds and cultures, and now known as Intercultural Affairs, the office is committed to developing the potential of all students by creating and maintaining an environment that promotes and fosters a multicultural, international, global community.

Intercultural Affairs is organized to provide underrepresented populations with programs that enhance knowledge, skills and awareness to function in a complex global society.

The Office of Intercultural Affairs Strives to...

- Create and maintain an environment that promotes cross-cultural understanding.
- Ameliorate and eliminate barriers to students, faculty, and staff interactions across racial, ethnic and cultural boundaries.
- Increase the number of underrepresented groups as undergraduate, professional and graduate students from the four (4) federally recognized minority groups (African American, Native American, Hispanics and Asian Americans).
- Recruit and retain underrepresented racial minorities and diverse populations as members of the faculty, staff, administration and student populations.
- Promote a multicultural presence throughout the university to include but not limited to: university governance, college & department committees, and administration.
- Improve the campus climate to foster nurturing, acceptance, and respect of diverse individuals.
- Support and maintain programs which present a variety of cross-cultural opportunities for all constituents of Marshall University.

Marshall University Intercultural Affairs comprises the Center for African American Students, the Lesbian, Gay, Bisexual, Transgender, Queer/Questioning+ office, and the International Students office. Each department is further broken down into individual units responsible for a host of programs and initiatives that contribute to Marshall University Intercultural Affairs' primary objectives.

Programs and Initiatives

Dr. Martin Luther King, Jr. Annual Recognition

The Annual Dr. Martin Luther King, Jr. Celebration was first established in 1994 as an opportunity for Marshall University and the Tri-State community to reaffirm Dr. King's dream of an America where principles of social justice and racial equality reign supreme over the archaic attitudes of intolerance and hate. The celebration recognizes the life and legacy of the late civil rights leader and social justice advocate.

Social Justice

Social Justice permeates all aspects of the university and is a key component to its function. Toward that end, Intercultural/Social Justice projects, for example, provide opportunities for faculty, staff, and student organizations to develop Marshall University as a multicultural campus in the quest for social justice. Since 1990, Marshall University Intercultural Affairs has funded projects in research, curriculum development, seminars, workshops, conferences and visiting professorships. The common theme of these projects is the promotion of intercultural understanding, pluralism and diversity awareness throughout the Marshall community.

The Health Sciences and Technology Academy (HSTA)

The Health Sciences and Technology Academy (HSTA) was launched in Cabell and Lincoln counties in 2003 with the collaboration of Marshall University Intercultural Affairs and College of Science. HSTA is intended to increase students' competitiveness in science and mathematics while promoting multicultural sensitivity, study skills, communication skills, technological literacy and community leadership. In addition to financial support, HSTA stimulates interest in postsecondary health science degrees. Operating solely in West Virginia, HSTA provides enrichment programs to students in minority and lower-socioeconomic groups in grades 8-12 with the focused attention of the HSTA local community governing board staff, volunteers, teachers and field experts.

Intercultural Leadership Ambassadors

The Intercultural Leadership Ambassadors are a group of select, trained peer educators comfortable with their own diversity. The selected Multicultural Leadership Ambassadors serve as the "official student voice" for the Division of Intercultural Affairs.

The Ambassadors promote diversity throughout campus through presentations designed to educate the audience and heighten awareness on issues of inclusion. The Ambassadors comprise diverse students representing a broad range of cultures.

Marshall University Chancellor's Scholars Program

The Chancellor's Scholar's Program (CSP) is designed to recruit, educate and graduate underrepresented minority doctoral students. The program is focused on targeted recruitment and retention of underrepresented minority groups, specifically African American, Hispanic/Latino American, Native American and Asian American doctoral-level students. Program participation is determined through a formal application process.

The Ivy Academy

The Ivy Academy at Marshall University, sponsored in partnership with Alpha Kappa Alpha Sorority, Inc., is a one-day interactive leadership conference designed to empower young women in high school. The Ivy Academy provides participants with the leadership, self-esteem and motivational skills necessary for college and life success. Academy participants are treated to an information fair, workshops, forums and a keynote address. The Ivy Academy is held biennially, every odd year.

The Louis Stokes Alliance for Minority Participation (LSAMP)

The Louis Stokes Alliance for Minority Participation is a program funded by a National Science Foundation grant. Its purpose is to increase the number of minority students who successfully complete baccalaureate degrees in science, technology, engineering, and math (STEM) fields. The long-term goal of the program is to increase the minority presence of Ph.D.'s in STEM faculty positions.

Visiting Intercultural Scholar in Residence

Visiting Scholars in Residence provide the opportunity for the Marshall University community to learn from experts in various fields. These scholars are accomplished professionals and bring a wealth of experience to the classroom and other campus and community venues.

Libraries and Online Learning

Monica Brooks, Associate Vice President for Libraries and Online Learning
306 Drinko Library/304-696-6474
library@marshall.edu
www.marshall.edu/library (http://www.marshall.edu/library/)

University Libraries

The Marshall University Library System consists of the John Deaver Drinko Library, the James E. Morrow Library, the Health Science Library at the Cabell-Huntington Hospital, and the South Charleston campus

library. Together, the University Libraries' holdings support teaching and research needs, with close to 3 million total items (including government publications and audiovisual materials) and access to more than 50,000 periodical titles. Students may use print and electronic books, periodicals, documents, CD-ROMS, videocassettes, sound recordings, electronic journals, online reference materials and microforms. Access to electronic resources and online research services is accomplished through the University Libraries' web pages. Each library operates as part of the university system and provides unique service to the clientele and programs with which it is associated. The libraries play an essential role in the educational and research activities of the individual university programs. Using the library as a gateway, students have access to the tools to search multiple resources and obtain materials from a variety of sources. A dynamic interlibrary loan and document delivery program provides materials from other libraries in electronic format, often in a matter of hours. Courier services also enhance turnaround time and overcome geographical limitations.

The John Deaver Drinko Library is open 24/5 and houses more than 150,000 volumes, current print subscriptions, a computer lab, multimedia presentation facilities, an assistive technology center for the visually impaired, faculty and student instructional technology rooms, and a fully wired auditorium. Circulation, Reference, and Media are located in the Drinko Library, with extensive collections and a team of qualified personnel. The Drinko Library is a state-of-the-art facility which also houses University Computing Services and University Telecommunications.

The James E. Morrow Library, situated between Smith Hall and the Science Building, houses Special Collections, Government Documents, and shelving for over 300,000 volumes. Special Collections features the University archives, West Virginia Collection of state and regional materials, and the distinctive Hoffman and Blake collections. Government Documents, a federal depository collection, contains more than a million items and provides materials in electronic, microform, and paper formats.

The Health Science Library, specializing in medical resources for the schools of medicine and nursing, maintains a current collection of medical monographs, periodicals and electronic resources. Staff provide a variety of document delivery services and searches on medical-related databases. The library is located in the Robert C. Byrd Center for Rural Health, next to the Cabell-Huntington Hospital on Hal Greer Boulevard.

The South Charleston Library is located in the Robert C. Byrd Academic and Technology Center. This facility supports the undergraduate and graduate programs offered on this campus. Access to all Marshall Libraries electronic resources is available, along with a professional staff to assist students and faculty with their information and research needs. Items held in the libraries on the Huntington campus can be retrieved through a daily courier service and by the electronic transmission of journal articles between the sites. The library is also the site on the South Charleston campus for taking Marshall photo IDs. For details on services and hours, go to the South Charleston library's home page (www.marshall.edu/musclibrary (http://www.marshall.edu/musclibrary/)).

Online Learning

MUOnLine: Blackboard Learn is the electronic course delivery software used to power the online system and its peripheral programs. Housing approximately 600 fully online courses, with up to 250 active sections per term, and serving close to 15,000 students annually, this program strives to meet student needs by facilitating faculty development and supporting quality, affordable, and convenient distance education courses and programs.

Online Learning: The Marshall University distance education program is supported by four Instructional Design specialists and a team of well-trained students developers who aid faculty in developing and delivering online and hybrid courses. In addition to development support, the MUOnLine Instructional Designers center staff also provide regular training and workshop opportunities to faculty who participate in any aspect of online course delivery and support.

The **Online Learning Instructional Design Center**, located in the Drinko Library room 235, provides teaching and learning with technology training and online course development support for Marshall University's faculty and staff. This unit provides the hardware, software, networking and technological assistance and support to assist faculty with online courses and traditional course supplements. Faculty interested in developing an online course or in using an online course section as a supplement to a hybrid or face-to-face class, simply submit an online form to launch their project and obtain the checklist and paperwork to initiate the development and review process. Complete information about teaching online and using technology in general for instruction is provided along with a user group seminar series to allow faculty to present and share their online courses materials, lesson plans, and projects.

Online course development is facilitated and approved by faculty peers. In 2011, Marshall became an institutional subscriber to the nationally recognized Quality Matters program and began providing the "Applying the Quality Matters Rubric" training on the Huntington and South Charleston campuses and online. QM is a faculty-centered, peer review process that is designed to certify the quality of online and blended courses in reference to course design and course outcomes alignment. QM is the baseline for internal online course reviews, QM is a leader in quality assurance for online education and has received national recognition for its scalable, peer-based approach and continuous improvement in online education and student learning.

Currently, Library and Online Learning faculty and staff provide support for a multi-campus copyright education program designed to keep faculty apprised of appropriate use of copyrighted materials provided in a variety of formats in both face-to-face and online courses. Members of the team stay abreast of national shifts in copyright interpretation, field questions from the university community, make referrals to University Counsel when appropriate, and provide support for university policies that ensure compliance with Title 17 of the US Code and the TEACH Act.

Marshall University Foundation, Inc.

Ronald Area, Chief Executive Officer
Foundation Hall/304-696-6264; Toll-free: 1-866-308-1346
www.marshall.edu/foundation (http://www.marshall.edu/foundation/)
foundation@marshall.edu

The **Marshall University Foundation, Inc.** was established in 1947, as a non-profit, tax-exempt, educational corporation. In the spirit of philanthropy and through a commitment to education, the foundation solicits, receives, manages and administers gifts on behalf of Marshall

University. It is a public charity under Section 501(c)(3) of the Internal Revenue Service.

The foundation, in collaboration with Marshall's Office of Development, secures private financial support for the university and encourages greater participation by alumni. The Brad D. Smith Foundation Hall, home of the Erickson Alumni Center, is located at the intersection of 5th Avenue and John Marshall Drive. The building opened in February of 2010.

Math Placement Examinations

University College
Smith Communications Building 212/304-696-3169
www.marshall.edu/uc (http://www.marshall.edu/uc/)

Required pre-requisites for math courses vary based on the individual course. The prerequisite for each course is noted in the Courses of Instruction section in this catalog. Students who do not meet the prerequisites for their required math course may challenge their placement by taking an exam administered by University College in Smith Communications Building, Room 212. To schedule an exam and obtain information to prepare for the exam, please call 304-696-3169 or visit the University College website at www.marshall.edu/uc (http://www.marshall.edu/uc/).

National Scholarships

Mallory Carpenter, Program Manager
Old Main 230E/304-696-3169
Mallory.carpenter@marshall.edu
www.marshall.edu/nationalscholarships (http://www.marshall.edu/nationalscholarships/)

The Office of National Scholarships helps students across the university apply to nationally competitive scholarships such as the Rhodes, Fulbright, Goldwater, and Truman. The office assists with scholarship selection, application review, and interview preparation. Available scholarships can fund summer opportunities, study abroad programs, graduate school, or more. Students that actively engage with the application process for nationally competitive scholarships will:

- Enhance and strengthen their relationships with faculty members;
- Clarify their own personal and professional goals;
- Improve skills in writing that are vital for graduate school applications, cover letters, and resumes;
- Learn what separates them as an individual from their peers;
- Gain confidence in themselves from completing a sophisticated application process.

Although not required, appointments are encouraged.

National Student Exchange

Robin Taylor, Academic Advisor
University College, Smith Communications Building 212
304-696-5819
NSE@marshall.edu
www.marshall.edu/uc/national-student-exchange/ (http://www.marshall.edu/uc/national-student-exchange/)

The National Student Exchange (NSE) program is a consortium of four-year colleges and universities in the United States, its territories and two universities in Canada that have joined together for the purpose of exchanging students. The NSE is the only program of its kind in the country and serves as a national resource for inter-institutional study throughout the United States. NSE offers study opportunities at diverse university settings and provides access to a wide array of courses and programs. The program features a tuition reciprocity system which allows students to attend their host institution by paying the normal tuition/fees of their home campus. Travel, housing, and daily living expenses are additional costs.

Work completed while on exchange at the host campus is brought back to the home institution and credited to the student's degree program. Advance approval is required. Students may choose a semester or year-long exchange. The deadline for applications is February 15th of every year for priority placements. If room is still available, students can apply after the deadline with permission from the NSE Coordinator. Application information is available in University College.

Orientation

Sabrina Simpson, Director of New Student Orientation
Smith Communications Building 211
304-696-2354; (1-800-438-5392)

www.marshall.edu/orientation/ (http://www.marshall.edu/orientation/)
simpson@marshall.edu

New Student Orientation Programs are conducted during the summer to help freshmen, transfer students, and their parents learn more about Marshall and meet students, staff, faculty, and administrators. During the Orientation programs, students and parents will learn about campus services, extracurricular activities, and community life. Students will meet with a representative from their academic college to discuss academic programs, academic advising, and other college-specific information. All newly admitted students who have submitted their Enrollment Deposit will be eligible to register for Orientation. All new students are expected to attend this important first step into college life at Marshall University.

Pre-Law Education

Patricia Proctor, J.D., Pre-Law Advisor

The American Bar Association does not recommend a particular major for those who wish to pursue a degree in law, and there is no specific major which law schools prefer. Students should major in something that will help them develop skills which will be valuable to them as law students and legal practitioners. Any major that will enable students to develop skills in analytical thinking and communication, especially writing, is a good pre-law major. Regardless of the major, students should choose electives that will facilitate critical understanding of economic, political and social institutions. Because a lawyer must be able to communicate effectively, students should emphasize communicative skills. Also a knowledge of elementary accounting is desirable and highly recommended, as is a course in logic.

Prospective law school applicants should:

- consult as soon as possible, preferably during their first semester, with Professor Proctor for further information and advice;
- register for the June or October (preferably) or the December administration of the Law School Admission Test (LSAT) and apply for law school admission during the fall of their senior year in

college. (Full LSAT information and registration materials are in the Law School Admission Bulletin, which is available at the Simon Perry Center for Constitutional Democracy.)

Pre-Medical/Pre-Dental Education

Students who wish to prepare themselves for any of the professions in medicine (Chiropractic, Podiatry, Osteopathy, Medicine or Dentistry) must meet certain basic requirements. They may major in any subject. Most pre-professional students typically major in one of the sciences but it is not necessary. Most medically related postgraduate programs require a bachelor's degree that includes two years of chemistry, one year of biology, one year of math, one year of English and one year of physics.

For more information, see "Pre-Professional Health Care Studies, Interdisciplinary Minor" (p. 661) at the end of the College of Science section of this catalog. Moreover, students can stop by Science Building 270 and visit the Associate Dean of the College of Science, who also serves as the Chief Pre-Professional Health Care Advisor for Marshall University.

Psychology Clinic

Keith Beard, Director
Harris Hall 449
304-696-2772
www.marshall.edu/psych/ (http://www.marshall.edu/psych/)
psychology@marshall.edu

The Marshall University Psychology Clinic has been established by the Department of Psychology to serve as a training facility for advanced graduate students enrolled in the clinical psychology program at the university and to provide high quality, low cost, confidential psychological services to individuals on the campus and from the local community. The student clinicians are doctoral students in the Marshall University Clinical Psy.D. program. Student clinicians provide services under the supervision of qualified clinical faculty selected by the Department of Psychology to fulfill supervisory and teaching functions. A variety of services is offered by the clinic. These include individual psychotherapy, psychological assessment, and group psychotherapy, as well as educational workshops and other events. Some faculty also provide services. Although the clinic is not a for-profit venture, nominal fees are charged for some services; psychological counseling services are provided at no charge to students.

Public Service Internship

Smith Hall 780/304-696-3598

The Public Service Internship Program places qualified students in state government agencies for an off campus learning period of one semester. Students enrolled in this program work a forty hour week with an executive agency in a supervised intern program. They also attend a weekly seminar conducted by the state program coordinator and have a directed studies program conducted by their major department at Marshall. Participants must be full time Juniors or Seniors. They also must have the approval of their department chairperson and the university selection committee. The state program coordinator makes the final placement. Students receive 12 hours of academic credit and an educational stipend for their participation in the program. Academic credit for the program is offered in these courses:

Code	Title	Credit Hours
PSC 488	Independent Study (Directed Studies)	3
PSC 489	Seminar in Public Service	3
PSC 490	Public Service Internship	6
Total Credit Hours		**12**

All courses must be taken in order to receive credit. Students interested in this program should contact the Department of Political Science early in the semester preceding the one in which they wish to participate.

Society of Outstanding Black Scholars

Maurice Cooley, Director
Memorial Student Center 1W25/304-696-6705
cooley@marshall.edu

The governing spirit of the Society of Outstanding Black Scholars of Marshall University is to provide an essential foundation for learning, personal growth, and academic success through active participation in planned enrichment experiences. The society aspires to support and nurture African American students in character building, leadership skills, professional maturity, and service to others. The society recognizes the uniqueness and positive attributes associated with one's ethnicity and will challenge students to achieve greater prosperity and balance for leadership in diverse and multicultural environments in today's society.

Admission Requirements

Admission to the Society of Outstanding Black Scholars is exclusive to African Americans enrolled as full time students at Marshall University.

All candidates must possess and verify the existence of an academic scholarship utilized to support his/her education at Marshall University, at the time of admission.

All candidates must participate in an interview with the director of the society chiefly to determine the student's level of interest in the society, evaluate the student's personal and academic goals, and to address whether the student's goals and interests are compatible with activities and functions set aside for members of the society.

Unless his/her scholarship stipulates otherwise, the minimum GPA for admission to the Society is 3.0 for currently enrolled students as well as for entering freshmen.

Compliance Requirements

In order to remain in good standing each student must maintain his or her scholarship. Membership in the society will be terminated if the student's scholarship is terminated. (If one's scholarship is terminated merely due to the lack of available scholarship funding, the 3.0 Overall GPA and attendance rule will apply. In such cases, the director may allow a grace period for students to upgrade their overall GPA's to meet minimum standards for continued membership.)

In order to remain in good standing, each student must attend 70% of scheduled activities, unless excused by the director. Reasons that

may prohibit attendance may include: conflicts with work schedule; conflicts with exams or exam preparations; attending class; illness; out of town; and other similar reasons. Students who are unable to attend planned functions must contact the director by phone, e-mail, or person to person to present the details concerning his/her inability to attend. Planned functions include an annual Student Lecture Series, educational travel, special receptions, special presentations, art and culture outings, and a variety of enrichment experiences.

All members of the society are required to assist in planning and/or implementation of the Outstanding Black High School Students' Weekend in November of each year under the direction of the Center for African American Students' Programs.

Speech and Hearing Center

Pam Holland, Director
Smith Hall 143/304-696-3641
www.marshall.edu/commdis (http://www.marshall.edu/commdis/)

The Department of Communication Disorders in the College of Health Professions operates the Speech and Hearing Center which provides quality evaluation and treatment services for people of all ages with speech and hearing problems. The center also provides special training for individuals who would like assistance with dialect change. Services are available for Marshall students, faculty and staff, and the general public. For information regarding services contact the number listed above.

Student Affairs

Maurice Cooley, Vice President
Memorial Student Center 2W40B/304-696-2284

student-affairs@marshall.edu
www.marshall.edu/student-affairs (http://www.marshall.edu/student-affairs/)

Student Affairs Office

The student as a planner, participant, leader, and presenter is best exemplified in the area called Student Affairs. Staff strives to create environments for students where they can practice leadership skills and responsible citizenship, clarify their values, and generally become full participants in the learning process. Staff provides advising, leadership development, support services in a variety of settings including but not limited to student social-cultural events, student governance, fraternities and sororities, legal aid, judicial affairs, and off-campus and commuting students.

The various units within the Division of Student Affairs are:

1. Student Activities
2. Student Involvement and Leadership
3. Office of Student Conduct
4. Student Government Association
5. Student Advocacy
6. Parent and Family Programs
7. Fraternity and Sorority Life
8. Office of Community Engagement
9. Wellness Center
10. Women's and Gender Center
11. Violence, Prevention, and Response
12. Student Counseling Center
13. Intercultural Affairs
14. International Student Affairs
15. LGBTQ+ Office
16. Center for African American Students
17. Student Counseling Center
18. Disability Services

Student Advocacy and Support

Michelle Biggs, Assistant Dean
Memorial Student Center 2W32/304-696-2284

miller138@marshall.edu

Staff within the Office of Advocacy and Support are committed to helping you navigate Marshall University. A trustworthy place and staff, we care, we advocate, and we can refer you to campus and community partners. We want to help you succeed in class and life. We encourage students to maximize their educational experiences, and prepare them for involvement in the larger community and life beyond college. Additionally, we aim to empower students to overcome obstacles and to assist in resolving issues.

Student Conduct

Lisa Martin, Director
2W38 Memorial Student Center
304-696-2495
martil@marshall.edu
muwww-new.marshall.edu/student-conduct/ (http://muwww-new.marshall.edu/student-conduct/)

For Marshall University to function effectively as an educational institution, students must assume full responsibility for their actions and behavior. Students are expected to respect the rights of others, to respect public and private property, and to obey constituted authority. A student's admission to the university constitutes acceptance of these responsibilities and standards. Failure to adhere to the policies and conduct regulations of the university places the student in violation of the Marshall University Code of Student Rights and Responsibilities and may, therefore, subject the student to disciplinary action. All admitted students are subject to the code at all times while on or about university-owned property, or at university-sponsored events. Anyone may refer a student or student organization suspected of violating the Code of Student Rights and Responsibilities to the Office of Judicial Affairs. The *Student Code of Conduct*, *Student Academic Rights and Responsibilities*, and the judicial processes are available in the *Student Handbook*, published by the Department of Student Affairs.

Student Development

The Student Development Center is best described as the educational support service area of the Division of Student Affairs. Its major goal is to enhance and support a student's personal and academic development. This assistance is accomplished through developmental, remedial, and preventive programs, activities, services which include, but are not limited to personal and social counseling; educational counseling; health education; returning students and disabled student services.

Student Development offices are located in Prichard Hall and the Memorial Student Center:

1. Counseling Services: assists students in the resolution of personal or emotional concerns; the center is staffed by mental health professionals and provides comprehensive services; call 304-696-3111 for information.
2. Wellness Center/Collegiate Recovery Program, 304-696-4800
3. Disabled Student Services, 304-696-2271

Student Health Service

The Student Health Service (SHS) is located at the Marshall Medical Center at Cabell-Huntington Hospital. The SHS is designed to treat acute illnesses. Services are delivered by the Department of Family and Community Medicine, a division of the School of Medicine. Operating hours are from 8 a.m.-4:30 p.m., and it is closed Saturdays, Sundays, and on school holidays. The Student Health Clinic operates on an appointment basis. Please contact the Student Health clinic for appointments and walk-in availability, 304-691-1100. See the Student Health website at for information on transportation.

Student Life

Matt James, Assistant Dean
Memorial Student Center 2W38/304-696-3395
www.marshall.edu/lead/ **(**http://www.marshall.edu/lead/**)**
james65@marshall.edu

Student Life supports the academic mission of the institution by creating a vibrant, co-curricular Marshall student experience. This is achieved through the incorporation of outside-the-classroom programming, mentorship, educational activities, community engagement opportunities, and leadership development. We empower our students to become active in campus organizations so they may learn, grow, and achieve success beyond their collegiate experience.

Student Support Services

Bonnie Bailey, Director
Prichard Hall West Lobby (1st Floor)/304-696-3164
www.marshall.edu/sss/ **(**http://www.marshall.edu/sss/**)**
sss@marshall.edu

The Student Support Services (SSS) program is one of several federally funded TRiO grant programs established to help students overcome class, social, academic, and cultural barriers to higher education. SSS provides a host of **free** programming and support services to 200 eligible participants.

Eligible participants are undergraduate students who meet at least one of the three requirements:

- First-generation college attendees (neither parent/guardian has graduated from a 4-year institution)
- Income eligible as determined yearly by the Department of Education
- Documented learning or physical disability

The staff provides one-on-one academic advising to assist the student in achieving his/her academic goals. SSS also provides living learning communities and courses, Supplemental Instruction assistance, various courses and opportunities to enhance academic performance and guidance, assistance with financial aid processes and requirements, and postgraduate assistance.

Study Abroad

Welcome Center (2nd floor) / 304-696-6265
studyabroad@marshall.edu
www.marshall.edu/iss/studyabroad/ (http://www.marshall.edu/iss/studyabroad/)

Undergraduate students can experience life in a different culture while pursuing an approved course of study toward the baccalaureate degree. (See information on transfer of credit and grades below.) This international experience will serve as excellent preparation for whatever career students choose. Marshall students have enrolled in programs of study in such countries as England, Spain, Mexico, Australia, Japan, France, Germany, and China. Students can arrange for study abroad in several ways:

- study abroad for one or more semesters or during the summer;
- enroll in another American institution's study abroad program (see Marshall Students Visiting Other Institutions)
- enroll in an International Exchange Program. Marshall maintains a number of these programs (see below) which involve a direct relationship with the institution abroad as well as easy transfer of credits.

The Office of International Student Services will help find the right program for a student's needs. Study abroad is done typically in the junior year. Advance planning will ensure a successful experience. By making an early commitment to study abroad, students can plan their curriculum, save money, and prepare for living in a foreign setting, possibly with a host family or in a shared apartment.

Eligibility to Participate in MU Study Abroad Program

- You must have completed your first two semesters of university level coursework to participate in a study abroad program.
- You must have a GPA of 2.50 overall/cumulative as well as 2.50 Marshall GPA or higher.
- Students on academic or disciplinary probation or suspension are not eligible for study abroad.

Types of Study Abroad Programs

International Exchange Programs

Marshall University currently maintains student exchange programs with the following institutions:

- Anglia Ruskin University in Cambridge, England
- Kansai-Gaidai University in Osaka, Japan
- Chukyo University in Nagoya, Japan
- Université Catholique de Lyon, Ecole Supérieure de Commerce et Management in Lyon, France
- Rennes 2 University in Rennes, France

ISEP Direct - International Student Exchange Program

ISEP Direct provides access to over 300 study sites in 42 countries. Programs in English are not only in English-speaking countries but in Bulgaria, the Czech Republic, Denmark, Estonia, Finland, Hong Kong, Hungary, Iceland, Japan, Korea, Latvia, the Netherlands, South Africa, Sweden and Thailand. Students can search ISEP programs online by location, major or language of instruction at www.isep.org (http://www.isep.org).

Junior Year Abroad
Nine to twelve months fully integrated into the foreign environment requires the most commitment. It requires fluency in the host language and often is the most costly of the options. However, it also yields the most in personal growth and maturity.

Semester Abroad
Because most foreign universities are not organized on a semester system or offer credit hours, these one semester programs are usually run by American universities. Classes are usually offered in English by American or host professors.

Short-Term Study Abroad
These are typically summer programs lasting six to ten weeks. Often they are a quick way to become fluent in a language or gain a good understanding of a country. The Department of Modern Languages currently sponsors summer language study programs in France and Spain.

Travel-Study Tours
These are usually very short-term events (over Spring Break), which involve travel rather than residential study. Students who enroll in study abroad programs maintain their Marshall student status.

Transfer of Foreign Credits/Grades
1. Students who plan to study abroad should consult with the Study Abroad Coordinator in the Office of Admissions. The coordinator will provide a copy of the procedures for obtaining credit for transfer courses and the Study Abroad Approval Form.
2. Foreign study courses may be taken for letter grades or as Credit/No Credit, depending on the grading system of the host institution and pending approval of the student's academic college.
   - All students must obtain advance approval for courses taken for a letter grade or Credit/No Credit by completing the Study Abroad Course Credit Approval form prior to participating in the program.
   - Students can earn up to 3 hours of international (IR) study credit toward graduation requirements.
   - Students must take all hours in a given term as either Credit/No Credit or for a letter grade.

Steps to Prepare
1. Commit to study abroad and begin planning.
2. Gather information—find program materials in the Office of International Student Services located in Old Main 321. Estimate costs - talk with parents, the Financial Aid Office and the Study Abroad Coordinator.
3. Decide on a program—semester, summer, or a full year. Decide on a country and on what language you may need.
4. Consult often with the Study Abroad Coordinator and faculty. They can offer insightful tips and pre-departure orientation.

Testing Center
Demeley Smith, Director
Room G-45, Morrow Library/304-696-2604
demeley.smith@marshall.edu

The Marshall University Testing Center administers the computer-based GRE, Praxis I, TOEFL, and various other tests in contract with the Educational Testing Service. For additional information and hours call the number above.

Textbook Loan Program
Libraries and Online Learning, Drinko Library, 304-696-2321
drinkoaccessservices@marshall.edu
https://marshall.libanswers.com/Circulation/faq/323372 (https://marshall.libanswers.com/Circulation/faq/323372/)

Textbooks for several gateway and core curriculum courses are now available in the Drinko Library for a short-term loan period of three hours and cannot be removed from the library. A list of textbooks that are part of the loan program can be found on the Textbook Loan Program website. Students who would like to utilize the textbook loan program should visit the Circulation Desk at the Drinko Library. To request the book, the student should know the title of the book, identify the book as part of the Textbook Loan Program, and present a student ID.

Tutoring Services
Undergraduate Studies, Smith Communications Building 211
304-696-6622
Sabrina Simpson, Director
tutoring@marshall.edu
www.marshall.edu/uc/tutoring-services (http://www.marshall.edu/uc/tutoring-services/)

Tutoring Services are available to all enrolled students. Nearly all subjects are tutored each semester, particularly high-demand subjects and gateway courses. The goal of tutoring is to help lead students to academic excellence, not just remediation. Tutoring is available by registering online and requesting either a one-time visit or longer term, recurring individual appointments. Online tutoring is also available upon request. Since hours of operation vary per term, students are highly encouraged to stop by Tutoring Services or visit the Tutoring website for a complete schedule.

Writing Across the Curriculum
Jill Underhill, Director
Smith Hall 250
304-696-3013
www.marshall.edu/ctl/writing-across-the-curriculum (http://www.marshall.edu/ctl/writing-across-the-curriculum/)

See Center for Teaching and Learning.

Writing Center
Anna Rollins
Drinko Library, 2nd Floor/304-696-2405
www.marshall.edu/writingcenter (http://www.marshall.edu/writingcenter/)

The Writing Center, which is administered by the Department of English, provides free writing consultation to students. Students can drop in without an appointment to receive help with writing or to use a PC. The Writing Center tutoring staff, which consists of English graduate students and undergraduate peer tutors of all majors, can help students through the entire writing process, from discussing initial ideas to revising and editing their work.

University Policies and Procedures

Copyright Compliance

Marshall University complies with U.S. copyright law, which prohibits unauthorized duplication and use of copyrighted materials, including written, audio-visual, and computer software materials. Further information is available on Marshall's website at www.marshall.edu/library/copyright (http://www.marshall.edu/library/copyright/).

Equal Opportunity/ Affirmative Action Policy Statement

It is the policy of Marshall University to provide equal opportunities to all prospective and current members of the student body, faculty, and staff on the basis of individual qualifications and merit without regard to race, color, sex, religion, age, disability, national origin or sexual orientation.

This nondiscrimination policy also applies to all programs and activities covered under Title IX, which prohibits sex discrimination in higher education.

The university ensures equality of opportunity and treatment in all areas related to student admissions, instructions, employment, placement, accommodations, financial assistance programs and other services. Marshall University also neither affiliates with nor grants recognition to any individual, group or organization having policies that discriminate on the basis of race, color, sex, religion, age, disability, national origin or sexual orientation.

Further, the university is committed to the ideals of inclusion for students, faculty and staff and whenever appropriate, will take affirmative steps to enhance diversity.

Administrative Steps For Filing a Complaint Regarding a Student or Student Organization

Marshall University expects all members of its community to act in respectful and responsible ways toward one another. Marshall University is committed to providing programs, activities and an educational environment free from discrimination and harassment of any kind. To file a general complaint against a student or student organization complete the General Complaint Form (https://marshall-advocate.symplicity.com/public_report/) or contact the Office of Student Conduct, 2W29 Memorial Student Center, or call 304-696-2495.

Sexual Misconduct

According to Title IX, the Education Amendments Act of 1972, "No person in the United States shall, on the basis of sex, be excluded from participation in, be denied the benefits of, or be subjected to discrimination under any education program or activity receiving Federal financial assistance." To file a complaint regarding sexual misconduct, complete the Title IX Complaint Form (https://marshall-advocate.symplicity.com/titleix_report (https://marshall-advocate.symplicity.com/titleix_report/)/) or contact the Office of Equity Programs, 206 Old Main, 304-696-2597.

Liability

Marshall University, as a state agency cannot assume responsibility for loss of or damage to the personal property of students. Furthermore, the university cannot assume responsibility for personal injury to students.

Privacy Rights of Parents and Students

The Family Educational Rights and Privacy Act of 1974, 93-380, 93rd Congress, H.R. 69 authorizes granting to parents and students the right of access, review, challenge, and exception to education records of students enrolled in an educational agency or institution. In accordance with the regulations of the Family Educational Rights and Privacy Act of 1974, Marshall University has adopted a policy to be implemented by all units of the institution. Upon enrollment in the university, the student and/or eligible parent(s) may request a copy of the policy.

Under the Act the student and eligible parent(s) are granted the following rights:

- to be informed of the provisions of the Act through adoption of an institutional policy;
- to inspect and review the records of the student;
- to reserve consent for disclosure except as exceptions are granted in the regulations, i.e., school officials, officials of other schools to which the student seeks attendance, or others as delineated in Section 99.31;
- to review the record of disclosures which must be maintained by the university; and
- to seek correction of the record through a request to amend the record and to place a statement in the record.

Complaints of alleged failure by the university to comply with the Act shall be directed to:

The Family Educational Rights and Privacy Act Office
330 Independence Avenue, S.W.
Washington, D.C. 20201

The University encourages complainants to lodge a formal complaint with the Division of Student Affairs.

Requests for further clarification on this Act, the regulations, and University policy should be directed to the Assistant Dean for Advocacy.

Sexual Harassment Policy Statement

Sexual Harassment, a form of sex discrimination, is illegal and against the policies of the university. Sexual Harassment involves:

1. making unwelcome sexual advances or requests for sexual favors or other verbal or physical conduct of a sexual nature a condition of employment or education, or
2. making submission to or rejection of such conduct the basis for employment or educational decisions, or

3. creating an intimidating, offensive or hostile environment by such conduct.

Anyone who believes he or she has been the subject of Sexual Harassment should report the alleged conduct immediately to an appropriate university representative or directly to the Office of Equity Programs, located in 206 Old Main.

Students with Disabilities

Introduction

Marshall University is committed to providing equal opportunity and access to all programs, services, and activities for students with disabilities. Marshall has three (3) offices or centers that provide services for students with disabilities. These programs include two nationally recognized centers for excellence: the College Program for Students with Autism and the Higher Education Learning Problems (H.E.L.P.) Program. Each of these has different intake processes and procedures. Please check with each program for specific questions. For more specific information on their services, processes, and fees, please use the web links that follow:

The Office of Disability Services (ODS)

www.marshall.edu/disability/ (http://www.marshall.edu/disability/)

The Office of Disability Services is the university-wide office responsible for working with both faculty and students with disabilities to provide reasonable accommodations, assistive technology, and/or auxiliary aids and services. This office helps to ensure Marshall University is providing equal opportunity and access for all students with disabilities without cost to the students.

College Program for Students with Autism Spectrum Disorder

www.marshall.edu/collegeprogram/ (http://www.marshall.edu/collegeprogram/)

(Focus is on students with autism.)

Participation in this program requires that students pay for services. College Program services are highly individualized, but every student receives supports from graduate assistants and West Virginia Autism Training Center staff who work to oversee that the student is accessing the services they need to have a successful college experience. 94% of students who have received College Program supports have graduated or are currently on track to graduate. College Program staff are also available to provide Allies Supporting Autism Spectrum Diversity Training to campus departments. The one-hour online or in-person training can be tailored to fit the needs of various populations such as faculty member, peers, community members, and employers. The College Program also hosts a 3-day employment preparedness workshop in June and a high school summer transition program during summer session III.

H.E.L.P. Program

www.marshall.edu/help/ (http://www.marshall.edu/help/)

(Focus is on students with learning disabilities.)

Participation in this program requires that students pay for services. The H.E.L.P. Program (Higher Education Learning Problems) is located in Myers Hall, on the Huntington campus of Marshall University. H.E.L.P. is a comprehensive academic support program for Marshall University students with diagnosed Specific Learning Disabilities (SLD) and/or Attention Deficit Hyperactivity Disorder (ADHD). The H.E.L.P. Program offers one-on-one academic tutoring, academic coaching, and diagnostic evaluations. Students participating in the program must have met acceptance criteria for Marshall University and are considered for entry to the H.E.L.P. Program, via a separate application process.

Confidentiality and Disability Disclosure Statement

Students with disabilities are admitted to Marshall University under the same admittance criteria and process for all students. Students with disabilities are not required to disclose their disability during the admissions process nor during their time at Marshall. However, if they seek accommodations including assistive technology, or auxiliary aids/services they must make their request to the Office of Disability Services.

Accessibility

Marshall University is committed to making all programs, services, and activities fully accessible to students with disabilities.

According to the U. S. Department of Education's OCR Compliance Review No. 11-11-6002:

"Accessible" means a person with a disability is afforded the opportunity to acquire the same information, engage in the same interactions, and enjoy the same services as a person without a disability in an equally effective and equally integrated manner, with substantially equivalent ease of use. Educational benefits and opportunities afforded by technology are "accessible" if a person with a disability is afforded the opportunity to acquire the same information, engage in the same interactions, and enjoy the same services as a person without a disability in an equally effective and equally integrated manner, with substantially equivalent ease of use. A person with a disability must be able to obtain the information and engage in the same interactions as fully, equally, and independently as a person without a disability. Although this might not result in identical ease of use compared to that of persons without disabilities, it still must ensure equal opportunity to the educational benefits and opportunities afforded by the technology and equal treatment in the use of such technology.

Requesting Services

Registration and Documentation

To receive accommodations, assistive technology, and/or auxiliary aides, students must schedule an appointment with the Office of Disability Services Director to register for services. Web conferencing can be arranged for students who have long travel distances, take online courses, or are attending classes at remote campus locations. Students will need to schedule this initial appointment either through email or telephone contact to the Office of Disability Services director. At this initial meeting, students need to provide documentation of their need for reasonable accommodations, assistive technology, and/or auxiliary aids/services.

Please note that the H.E.L.P. Center and Autism Center's College Program have different intake procedures for students. Please contact them directly.

Course Substitution

Students with disabilities may apply for course substitutions or waivers as a reasonable accommodation under the following policy:

Conditions

A student with a disability seeking a course substitution or waiver must meet the following conditions:

- Completion of the Course Substitution/Waiver Form. This form requires that the student attach a recent (within two years) diagnosis of a disability warranting a substitution or waiver. (The form is available in the Office of Disability Services, the H.E.L.P. office, the Buck Harless Student Athlete Program office, college deans' offices, and the office of the Dean of Student Affairs.) A licensed psychologist, a licensed school psychologist, or a properly credentialed education specialist must have made the diagnosis in the case of a learning disability.
- Verification on the Course Substitution/Waiver Form from the dean of the student's college, upon recommendation by the faculty of the department in which the student is a major, that the course for which a substitution is requested is not an integral part of the student's course of study. If the course is integral to the course of study the substitution or waiver request shall not go forward.
- Submission of the Course Substitution/Waiver Form to the Office of Disability Services.

Procedure

Submission of the Course Substitution Form by the student to the academic college dean's office initiates the process. The dean's office completes its portion and sends the form to the Office oft Disability Services. The student provides the Office of Disability Services with the diagnosis documentation. If approved, a letter of approval of accommodation is mailed to the dean's office and student. The student will then need to meet with the associate dean to discuss the class options for accommodations.

A student who is denied a course substitution or waiver may appeal in writing within 10 working days to the Provost/Senior Vice President for Academic Affairs, whose decision is final. Students should be aware that a course substitution/waiver would not be valid at any other institution and would have to be approved by the new college or department if the student changes major or declares a second major at Marshall University.

Appeals Process

Students who believe they have been inappropriately denied a reasonable accommodation by the Autism Training Center, the H.E.L.P. Center, or the Office of Disability Services may appeal as follows.

Step One: The student will submit the Accommodation Appeal Form to the Office of Disability Services within two (2) days of the denial of accommodations. This appeal form requires the recommended accommodations as provided by a licensed physician, psychologist or other appropriate medical professional. In addition, the student will provide a written statement indicating why the denial of the accommodations is in error and a potential detriment to the student's ability to participate in curricular and co-curricular activities.

The Office of Disability Services will, within five (5) business days, attempt to informally resolve the appeal. Resolution may be an affirmation of the refusal of the accommodation with a rationale for the decision, recommend provision of the accommodation, or submission of the appeal form for a Step Two review.

Step Two: If the student is not satisfied with the decision from Step One, he or she may forward the Accommodation Appeal Form within two (2) days of receipt the Step One decision to the Vice President for Student Affairs (VPSA), or his/her designee who will further investigate the appeal. This investigation may involve a meeting with the student, staff of Autism Training Center, the H.E.L.P. Center, and/or the Office of Disability Services, faculty and staff involved in the appeal, and others whose expertise may inform the review. The VPSA will render a decision, including a rationale, in a timely manner within five (5) business days. The VPSA may also submit the appeal form for a Step Three review.

Step Three: If the student is not satisfied with the decision from Step Two, he or she may forward the Accommodation Appeal Form within two (2) days of receipt the Step 2 decision to the Senior Vice President for Academic Affairs and Provost or his/her designee, (VP AA&P), who will further investigate the appeal. The VPAA&P will render a decision, including a rationale, within five (5) business days. The decision of the VP AA&P shall be final.

Failure to Provide An Accommodation or Issues with Providing an Accommodation

Students, the Office of Disability Services, or the faculty or staff who believe an employee of Marshall University failed to or has issues with providing an accommodation approved by the Autism Training Center, the H.E.L.P. Center, and/or the Office of Disability Services will submit the Accommodation Complaint Form to the Office of Disability Services. The Office of Disability Services will, within five (5) calendar days, report to the student and the VPSA the result of an investigation of the complaint and the action taken, if any.

If the Student, the Office of Disability Services, faculty or staff believes that:

- any agreed to resolution of the matter has not been adhered to or followed, or
- the Accommodations are still not being provided,
- no resolution can be reached concerning the issue, or
- there is a dispute regarding how/what accommodations should be provided,

then the matter may be appealed.

Appeal of Failure to Provide an Accommodation

Step One: The student, the Office of Disability Services, the faculty or staff will submit the Accommodation Complaint Form within two (2) days of the issue or incident of providing an accommodation occurs to the Office of the VPSA. This appeal form requires the recommended accommodations as provided by a licensed physician, psychologist or other appropriate medical professional. In addition, the student, Office of Disability Services, the faculty or staff will provide a written statement indicating what resolution attempts, if any, have been taken. Indicate which of the reasons indicated in 2.2 has occurred.

Step Two: The Office of the VSPA will, within five (5) business days, attempt to resolve the appeal. This attempt at resolution may involve a meeting with the student, staff of the Autism Training Center, the H.E.L.P. Department, and/or the Office of Disability Services, faculty and staff involved in the appeal, their director, chair, dean, and/or others whose expertise may inform the review. The Office of the VPSA

will render a decision, including a rationale, in a timely manner within five (5) business days. The VPSA may also submit the appeal form for a Step Three review.

Step Three: If the student, the Office of Disability Services, faculty or staff is not satisfied with the decision from Step Two, he or she may forward, within two (2) days of the Step Two decision, the Accommodation Complaint Form to the Office of the Senior Vice President for Academic Affairs and Provost or his/her designee, (VP AA&P), who will further investigate the appeal. The VP AA&P will render a decision, including a rationale, within five (5) business days. The decision of the VP AA&P shall be final.

The VPAA&P shall have the authority to direct University faculty and staff to provide any accommodation to which the VP AA&P finds that the student is entitled to receive.

Accommodations which have been approved by the Autism Training Center, the H.E.L.P. Department, and/or the Office of Disability Services, must be provided during the appeal process.

If faculty or staff are found to have failed to provide an accommodation after all the measures outlined herein have been exhausted or at any time during the appeal process, then the matter will be referred to The Office of Equity Programs/Title IX for further investigation and possible disciplinary actions.

Right to Accommodation for Any Judicial or Appeal Process

All students with a previously approved accommodation may be entitled to receive reasonable accommodations during any judicial or appeal process. Upon notification by the student, or by the individuals conducting a judicial or appeal process, the Office of Disability Services will coordinate the provision of the accommodation and have the authority to identify how best to provide the accommodation. Provided that, the Student may be required to register to register with the Office of Disability Services to receive those accommodations in accordance with University policy and procedures.

Retaliation Prohibited

No individual may retaliate against the student or any person that assists the student in the receipt of accommodations or this appeal process.

"Retaliate" means to take an adverse action against an individual or subject an individual to conduct that has the purpose or effect of unreasonably interfering with that individual's educational experience, work or academic performances, or creates an educational experience or academic or work environment that a reasonable person would find intimidating or hostile because of something that individual did to further the University's policy for providing accommodations.

Weather-Related and/or Emergency Closings and Delays

(from Board of Governors Policy GA-9, updated June 11, 2013)

Huntington Campus

Generally it is Marshall University's policy to maintain its normal schedule, even when conditions are inclement. However, that is not always possible.

In those instances when it is necessary to alter the schedule in response to weather conditions, every effort will be made to notify all those affected—students, faculty, staff and the general public—as expeditiously and as comprehensively as possible in the following ways:

- The university subscribes to a third-party service to provide notifications by e-mail, text message, and telephone, referred to as "MU Alert" at Marshall. All students, faculty and staff will be enrolled in the MU Alert database with their university e-mail addresses, and, in the case of faculty and staff, their office telephone numbers. Students, faculty and staff may provide additional contact methods, including those for text messaging and cell phone numbers, through the use of the myMU portal. In cases of weather-related or other emergency closings and delays, University Communications staff will use all contact points in MU Alert to send notification.
- Television stations in Huntington and Charleston will be notified.
- Radio stations in Huntington and Charleston will be asked to announce the delay or closing.
- Time permitting, newspapers in Huntington and Charleston will be notified. Often, however, decisions must be made after deadlines of newspapers.

Note: 3.3 This section applies only to the Huntington campus and all releases should make it clear that it relates only to the Huntington campus. The weather-related closings policy for the South Charleston campus and other education centers will be managed by the chief administrative officer (as designated by the University president) for the respective location, and all releases should make clear that the release applies only to the affected location.The South Charleston phone number is 304-746-2500. See the following for information on MUGC (South Charleston) procedures.

Definitions

University Closed: All classes suspended and offices closed.

Classes Cancelled: All classes suspended; offices open.

Delay Code A: Means a delay in the opening of classes **but** no delay in the opening of offices. Delays will usually be in the range of one to two hours. Employees are expected to report to work at their normal starting times unless they feel that travel is unsafe. If an employee feels that he/she cannot travel safely to work, they may charge accrued annual leave for the portion of the workday from 8:00 a.m. (or their normal start time) until their arrival at work.

Delay Code B: Means a delay in the opening of classes **and** a delay in the opening of offices. Delays will usually be in the range of one to two hours. Employees do not have to report to their offices until the stated delay time. If they believe they cannot travel to work safely by the stated delay time, they may charge accrued annual leave for the work hours from the stated delay time until they can next report to work.

Class operation under delays: Under both categories of delay, students should go to the class that would begin at the stated delay time or the class that would have convened within 30 minutes of the stated delay time. A two-hour delay means that classes that begin at 10:00 a.m. begin on time. Classes that begin at 9:30 a.m. meet at 10:00 a.m. and continue for the remaining period of that class.

Exceptions with regard to employees: Certain critical and emergency employees may be required to report to work on time or earlier than normally scheduled despite the particular delay code published.

Clarification
Information about closing, cancellations, or delays will ordinarily be disseminated to area radio and television stations. The authoritatively correct statement of the University's condition (Huntington) is stipulated to be the message on the main page of the website at www.marshall.edu (http://www.marshall.edu).

Faculty
Once operations are resumed, deans, and departmental chairs must take steps to ensure that faculty meet their scheduled classes or substitutes secured so that class schedules are met.

Decision Making
Decisions on closings and/or delays will be made jointly by the Chief of Staff, Senior Vice President for Academic Affairs and the Senior Vice President for Administration following the consultation with other appropriate officials, including the President. Should only one or two of those three persons be available, the ones available will make the decision.

Every effort will be made to reach decisions to allow time for adequate notification to the news media, and in turn, those affected.

South Charleston Campus and Other Education Centers
General Policy
Because weather conditions can vary substantially, it is possible that classes will be delayed or cancelled at some locations and not at others.

South Charleston Campus
Notification of delays or cancellations at the South Charleston campus will be announced by

1. local media,
2. MU Alert, and
3. University website.

Students may check the status of their classes by checking the website.

Point Pleasant, Beckley, Teays Valley and Other Educational Centers
Procedures for delayed openings and class cancellations are similar to those for the South Charleston campus. At Point Pleasant, Beckley, and Teays Valley, local media will provide information regarding cancellations. In addition, each site has a weather hot line:

1. Point Pleasant, 304-674-7239;
2. Beckley, 304-252-0719;
3. Teays Valley, 304-757-7223.

Remote Locations and Other Education Centers
Because there may be classes meeting on an irregular schedule in a geographically dispersed area throughout the semester, decisions about whether to meet during inclement weather will be made by the instructor. Those decisions will be transmitted to students by e-mail or other methods as agreed by students and the instructor.

Definitions
South Charleston Closed: All classes cancelled and offices closed.

South Charleston Classes Cancelled: All classes cancelled. Details provided by site.

South Charleston Delay: A delay in the beginning of non-class activities, e.g. a two-hour delay would mean the normal work day would begin at 10:00 a.m. rather than 8:00 a.m.

Academic Information
Absences from Class
(see "Class Attendance.")

Academic Common Market
Out-of-State Programs at Reduced Tuition
West Virginia residents can pursue academic programs not available within the state through the Academic Common Market (ACM) and through contract programs. Both programs enable West Virginians to enter out of state institutions at reduced tuition rates. Contract programs have been established for study in veterinary medicine, optometry, architecture, and podiatry; ACM provides access to both baccalaureate and graduate programs not otherwise available in West Virginia. The programs are restricted to West Virginia residents who have been accepted for admission to one of the specific programs at designated out of state institutions. For information please contact the Office of Academic Affairs, Old Main 200, (304-696-6840) or the Higher Education Policy Commission.

Out-of-state students who have been granted Academic Common Market access to Marshall University should follow the Academic Common Market Procedures available at www.marshall.edu/academic-affairs/academic-common-market (http://www.marshall.edu/academic-affairs/academic-common-market/).

Academic Dishonesty Policy
Introduction
As described in the Marshall University Creed, Marshall University is an "Ethical Community reflecting honesty, integrity and fairness in both academic and extracurricular activities."

Academic dishonesty is something that will not be tolerated, as these actions are fundamentally opposed to "assuring the integrity of the curriculum through the maintenance of rigorous standards and high expectations for student learning and performance," as described in Marshall University's Statement of Philosophy.

A student, by voluntarily accepting admission to the institution or enrolling in a class or course of study offered by Marshall University accepts the academic requirements and criteria of the institution. It is the student's responsibility to be aware of policies regulating academic conduct, including the definitions of academic dishonesty, the possible sanctions, and the appeal process.

For the purposes of this policy, an academic exercise is defined as any assignment, whether graded or ungraded, that is given in an academic course or must be completed toward the completion of degree or certification requirements. This includes, but is not limited to: Exams,

quizzes, papers, oral presentations, data gathering and analysis, practica, and creative work of any kind.

Definitions of Academic Dishonesty

Below are definitions of some common types of academic dishonesty. Each instructor may modify the general definition of academic dishonesty to fit the immediate academic needs within that particular course of study, provided the instructor defines, in writing and preferably in the course syllabus, the details of any departure from the general definition.

- *Cheating:* Any action which if known to the instructor in the course of study would be prohibited. This includes:
  - The unauthorized use of any materials, notes, sources of information, study aids or tools during an academic exercise.
  - The unauthorized assistance of a person other than the course instructor during an academic exercise.
  - The unauthorized viewing of another person's work during an academic exercise.
  - The unauthorized securing of all or any part of assignments or examinations, in advance of submission by the instructor.
- *Fabrication/Falsification:* The unauthorized invention or alteration of any information, citation, data or means of verification in an academic exercise, official correspondence or a university record.
- *Plagiarism:* Submitting as one's own work or creation any material or an idea wholly or in part created by another. This includes:
  - Oral, written and graphical material.
  - Both published and unpublished work.
  - It is the student's responsibility to clearly distinguish his/her own work from that created by others. This includes the proper use of quotation marks, paraphrasing and the citation of the original source. Students are responsible for both intentional and unintentional acts of plagiarism.
- *Bribes/Favors/Threats:* Attempting to unfairly influence a course grade or the satisfaction of degree requirements through any of these actions is prohibited.
- *Complicity:* Helping or attempting to help someone commit an act of academic dishonesty

Sanctions

Sanctions of academic dishonesty may be imposed by the instructor of the course, the department chairperson, the academic dean, or the associate provost.

Students may not withdraw from the course until all appeals are complete.

The appropriate sanction(s) for an act of misconduct must be decided on a case-by-case basis as appropriate by academic discipline, teaching method, course level, and degree of misconduct. When possible, the sanction should be selected with the aim of aiding the student in understanding the seriousness of their behavior and the consequences of ethical misconduct. The faculty member may issue any of the sanctions listed below. The instructor may impose at their discretion the following sanctions should the student choose not to appeal or loses an appeal of an academic dishonesty charge:

- *Warning letter*
- *Retake/Replace Assignment:* An appropriate sanction for minor violations in which the student admits culpability for a minor violation, generally poor citations, or other plagiarism without intent to defraud, is allowing a student to retake an assignment or to make-up an assignment with different work. These assignments should have a maximum score less than that of the initial assignment.
- *No Credit ("0") for the Assignment:* This is the recommended sanction for most minor academic dishonesty. This sanction is appropriate for collaborating on homework and/or minor plagiarism in a writing assignment. If this action affects the student's final grade, a grade of "Incomplete" should be given at the end of a semester pending the completion of the appeal process. Upon completion, the appropriate grade change can be made.
- *Exclusion from class activities:* When an individual student's conduct may negatively impact another student's academic performance, such as in labs or group work, the instructor may assign the identified student to work independently on any required assignments/labs. This action may be taken immediately, prior to the conclusion of the appeal.
- *Reduction of Final Course Grade/Failure of the Course:* These sanctions are recommended for most major violations of academic integrity. Such violations include cheating on a midterm or final exam, plagiarizing a term paper, or other misconduct on a major cumulative experience. A grade of "Incomplete" should be given at the end of a semester pending the completion of the appeal process. Upon completion, the appropriate grade change can be made.
- *Temporary Prohibition from Retaking the Class:* A student who is appealing a charge of academic dishonesty may not retake the same course in which the charge was made, with the instructor who made the charge, until the appeal is complete, unless such a prohibition would necessarily delay the student's graduation.

In those cases in which the offense is particularly flagrant or where there are other aggravating circumstances, additional non-academic sanctions may be pursued through the Office of Student Conduct.

The instructor or responsible office must notify any student accused of an offense within five (5) instructional days of the discovery of the incident, in writing, and outline any charges and subsequent sanctions imposed for academic dishonesty. Written notification of academic dishonesty charges (and inclusion of confirmed charges/sanctions in the student's records) is designed to inform a student of the potential repercussions of repeat offenses and their rights of appeal.

Any time an accusation of academic dishonesty is made and a sanction imposed (or a sanction will be imposed with the submission of final grades), a notice should be sent to the Office of Academic Affairs within five (5) instructional days of the accusation.

In addition, the Office of Academic Affairs will inform the student and the student's dean of the accusations made, the sanctions prescribed, the repercussions of repeat offenses, and their right of appeal. A copy of the report will go into the student's college file. Any subsequent action taken (additional sanctions imposed, the lessening of sanctions, the withdrawal of accusations, the result of appeals, etc.) must be reported to the Office of Academic Affairs within ten (10) instructional days of the action.

The Office of Academic Affairs will maintain a file of academic dishonesty incidents. These will be reported in summary form (no student or faculty names will be included) to the Academic Deans and the Faculty Senate at the end of each academic year.

Repeat Offenses

The Office of Academic Affairs will impose sanctions for repeated academic dishonesty charges after consultation with the appropriate department chairs and deans.

A student's record of academic dishonesty charges will be maintained throughout their enrollment at Marshall University. As a result of the first offense, a student can choose to be enrolled in an Academic Integrity Seminar within thirty (30) instructional days of the sanction. The first offense will be expunged from the student's record upon successful completion of the Academic integrity seminar, but a record of this offense will remain with Academic Affairs. Students who appeal the academic dishonesty charge can enroll in the seminar if the appeal is unsuccessful. Again, the student must enroll within thirty (30) instructional days of the end of the appeal. Specific information regarding the Academic Integrity Seminar can be obtained in the Office of Student Advocacy, Memorial Student Center, Room 2W40.

A student who has successfully completed the Academic Integrity Seminar, and is charged with a second offense, may not retake the seminar. This student will be placed on academic probation for a period of one calendar year. If this student is charged with a third offense, they will be suspended for a period of one academic year. If this student is charged with a fourth offense, they will be expelled from the university.

If a student elects not to complete the Academic Integrity Seminar, they will be suspended after their second offense and expelled after their third offense.

A suspension issued due to academic dishonesty must be served prior to any degree being awarded to the student.

Reporting:

Any time an accusation an accusation of academic dishonesty is reported to the Office of Academic Affairs, and a sanction imposed (or a sanction will be imposed with the submission of final grades), a notice should be sent to the Office of Academic Affairs within five (5) days of the accusation.

Notice of an act of academic dishonesty will be reported to the Office of Academic Affairs through the completion of an "Academic Dishonesty Report Form." The "Academic Dishonesty Report Form" will include:

- Instructor's Name
- Course Information (Term, Number, Section)
- Student's Name
- Student's University Identification Number
- Brief Description of the Charge
- Date of Accusation
- Brief Description of the Sanction

Instructors are encouraged to give a copy of the "Academic Dishonesty Report Form" to a student accused of an offense. However, within ten (10) days of receipt of the "Academic Dishonesty Report Form" the Office of Academic Affairs will inform the student and the student's dean of the accusations made, the sanctions prescribed, the repercussions of repeat offenses, and their rights of appeal. A copy of the report will go into the student's college file.

Undergraduate Appeals Process

In cases where the instructor imposes sanctions and does not refer the matter to the department chairperson for additional sanctions, the student may appeal the sanction in accordance with the procedures described for grade appeal (see listing under "Grade Appeal" described in the Undergraduate Catalog). This includes lowered grades, exclusion from class activities and failure of the course.

If allegations of academic dishonesty are referred to the department chairperson for additional sanctions, it must be within ten (10) days from the date of the alleged offense. The process starts with the dean if there is no department chairperson.

The department chairperson will bring together the student involved, and the faculty member, and/or other complainant within ten (10) days from the date of referral.

If the student denies guilt or disagrees with the sanction imposed, or if the faculty member, other complainant, or chairperson feels that the penalties are insufficient for the act complained of, the case will be forwarded in writing by the chairperson to the student's academic dean within five (5) days from the date of the meeting. The academic dean will bring together the student, faculty member or other complainant, and the department chairperson to review the charges within five (5) days from the date of referral. The academic dean may impose any sanction permitted by this policy.

Should the student, faculty member, or other complainant be dissatisfied with the determination of the academic dean, the case may be appealed in writing within five (5) instructional days of the written decision to the Budget and Academic Policy Committee, who will refer the case to the University Academic Appeals Board which determines if an appeal hearing is justified. If the University Academic Appeals Board determines a hearing is justified, the Board will schedule the hearing. The University Academic Appeals Board has the right to seek additional documentation if necessary. The University Academic Appeals Board has thirty (30) days to convene the members of the Hearing Panel to hear the appeal (once the requested documentation is provided by the appellant student) and five (5) instructional days after the hearing to make written notification of the determination to the student and instructor. It may not always be possible to meet the above conditions because many of these appeals occur at times when school is not in session. However, every effort will be made to schedule appeal hearings in a timely and reasonable manner.

Should the student, faculty member, or other complainant be dissatisfied with the determination of the Academic Appeals Board or the Hearing Panel, then they may file an appeal with the Chief Academic Officer (CAO) within fifteen (15) days from the receipt of the written decision of the Board. The decision of the CAO shall be final.

Only individual allegations of academic dishonesty may be appealed. If a previous offense was not appealed within the time limit, or was appealed unsuccessfully, then subsequent offenses will be counted as repeat offenses and additional sanctions will be levied by the Office of Academic Affairs as described under the section on "Sanctions."

Revised by Marshall University Board of Governors
December 17, 2020

Academic Dismissal

This is defined as termination of student status, including any right or privilege to receive some benefit, or recognition, or certification. A student may be academically dismissed from a limited enrollment

program and remain eligible to enroll in courses in other programs at Marshall University; or a student may be academically dismissed from the institution and not remain eligible to enroll in other courses or programs at Marshall University. The terms of academic dismissal from a program for academic deficiency shall be determined, defined, and published by each of the constituent colleges and schools of Marshall University. Academic dismissal from a program or from the University may also be imposed for violation of the University policy on academic dishonesty. For additional details, see "Academic Rights and Responsibilities."

Academic Forgiveness

The academic forgiveness policy allows forgiveness of *D* and *F* grades for purposes of calculating the Grade Point Average (GPA) required for graduation. This policy is designed to help students who left college with low grades. It will be implemented, provided certain conditions are satisfied, where the *D* and *F* repeat rule is not applicable:

- the student must have an absolute gap in enrollment for three consecutive calendar years, during which zero credit hours are earned or attempted at any institution of higher education **OR** the student must have a modified gap in enrollment for five consecutive calendar years, during which time up to 15 total credits may be earned or attempted at any institution of higher education, including Marshall University. The maximum of 15 total credits may be earned in one full-time semester or across one or more part-time semesters. Total credits earned within the modified gap in enrollment (five consecutive calendar years) may not exceed 15 credits;
- only *D* and *F* grades received prior to the absolute or modified gap in the enrollment period can be disregarded for GPA calculation;
- in order to receive a degree or certificate, the student must complete at least 24 additional credit hours through actual coursework from Marshall University after the non-enrollment period, earn at least a 2.0 GPA on all work attempted after the non-enrollment period and satisfy all degree or certificate requirements;
- forgiveness cannot be granted after the degree is conferred.

Grades disregarded for GPA computation remain on the student's permanent record. This policy applies only to the calculation of the GPA required for graduation and does not apply to GPA calculation for special academic recognition (such as graduating with honors) or to requirements for professional certification which may be within the province of licensure boards, external agencies, or the West Virginia Board of Education. Students can choose to have forgiveness applied to all grades of *D* or *F*, or to only specific grades of *D* or *F* on their record prior to the gap in enrollment.

A student may apply for academic forgiveness by submitting an Application for Undergraduate Academic Forgiveness available online at www.marshall.edu/registrar (http://www.marshall.edu/registrar/) or at www.marshall.edu/advising (http://www.marshall.edu/advising/). The Academic Advisor will review a student's gap in enrollment, then the Director of Undergraduate Academic Advising will accept, modify, or deny the application and will provide a justification.

Students may submit an application for academic forgiveness upon admission to Marshall University. The decision of forgiveness is portable and transfers to most academic programs at Marshall University. Programs that do not accept academic forgiveness are Dietetics, Nursing, and the Regents Bachelor of Arts program (this program is governed by a different forgiveness policy).

Students should be aware that this policy is not necessarily recognized by other institutions of higher education outside the state of West Virginia.

Academic Probation and Suspension

For information on Financial Aid Probation, please see the section on Student Financial Assistance (p. 40).

Probation for Academic Deficiencies

All undergraduate students whose Overall or Marshall GPA drops below a 2.0 will be placed on Academic Probation. Academic Probation is a period of restricted enrollment for a student. All probation students are subject to the following restrictions.

- Students on probation must meet with the Associate/Assistant Dean of their College before registering for classes to develop an Academic Improvement Plan to achieve good academic standing. This plan will be binding on the student.
- Students on probation may take a maximum of 14 hours and should repeat courses under the D/F Repeat Rule to reduce deficiency points.
- Students on probation must earn a 2.0 GPA or higher during every semester they are on probation. Failure to achieve a 2.0 semester GPA or higher while on Academic Probation will result in suspension (see below).
- Students on probation are not allowed to register by myMU.
- Students on probation must participate in their College's Retention Program.
- Other requirements may be imposed in the Academic Improvement Plan.

The student is returned to Academic Good Standing when his or her Marshall and Overall GPA are 2.0 or higher.

Suspension for Academic Deficiencies

Academic Suspension is defined as a period in which a student cannot enroll in courses at Marshall University. A student who has pre-registered and is subsequently suspended will have his/her registration automatically canceled.

1. Students who earn less than a 2.0 semester GPA while on Academic Probation or who accumulate or exceed the Quality Point Deficit for their GPA Hours (see Table One) will be suspended for one regular semester (the summer terms do not count as a term of suspension).

   Table One – Suspension QPD

GPA Hours	0-29	30-59	60-89	90 or more
Quality Point Deficit	20	15	12	9

2. When a student returns to Marshall after any suspension, the student will be placed on probation and must follow all of the requirements of his/her Academic Improvement Plan. Failure to meet all of the requirements of the Academic Improvement Plan or exceeding the Quality Point Deficits listed in Table 1 will result in suspension. **A second suspension will be for a period of one**

calendar year. Third and subsequent suspensions will be for a period of two calendar years each.

3. Petition for Reinstatement after a Second or Subsequent Suspension
   Reinstatement after a second or subsequent suspension is only by written petition to the Dean of a student's college, school, or program. The petition must be in writing and provide evidence that the student can meet the requirements of his or her Academic Improvement Plan. The written petition for readmission must be submitted at least 30 days prior to the beginning of the semester for which readmission is sought.

Probation for Academic Dishonesty

Academic probation for up to 1 year may be recommended by the instructor but will need to be imposed by the department chair, academic dean or the Office of Academic Affairs.

Suspension for Academic Dishonesty

A student with a second academic dishonesty offense during his/her enrollment at Marshall University will be academically suspended for a period of one academic year (to include summer terms).

Appeals of Academic Probation and Suspension

See "Academic Rights and Responsibilities of Students."

Approved by Faculty Senate, May 9, 2002, to go into effect Fall 2003

Academic Rights and Responsibilities of Students

Marshall University's policies in regard to the academic rights and responsibilities of students reflect Board of Governors Policy SA-2.

I. *Statement of Philosophy*
   Marshall University is an academic community and as such must promulgate and uphold various academic standards. Failure of a student to abide by such standards may result in the imposition of sanctions pursuant to Board of Governors Policy SA-2. A student, by voluntarily accepting admission to the institution or enrolling in a class or course of study offered by Marshall University, accepts the academic requirements and criteria of the institution. It is the student's responsibility to fulfill coursework and degree, or certification requirements, and to know and meet criteria for satisfactory academic progress and completion of the program.

II. *Definitions*
   A. **Academic Dean:** the chief academic officer of a college or school. The dean also serves in an advisory capacity to the student. The student is encouraged to contact his/her academic dean for guidance on appeal procedures.
   B. **Academic Deficiency:** failure to maintain the academic requirements and standards as established by Marshall University and its constituent colleges and schools other than those relating to academic dishonesty. This shall include but is not limited to the criteria for maintenance of satisfactory academic progress, i.e. Grade Point Average, special program requirements, professional standards, etc.
   C. **Academic Dishonesty:** Academic dishonesty is conduct on an academic exercise that falls into one or more of the following categories: cheating, fabrication/falsification, plagiarism, bribes/favors/threats, and complicity. These categories and "academic exercise" are defined in detail in the section on Academic Dishonesty in this catalog. Each instructor may modify the general definition of academic dishonesty to fit the immediate academic needs within that particular course of study, provided the instructor defines, in writing and preferably in the course syllabus, the details of any departure from the general definition.
   D. **Day:** shall refer to an instructional day.
   E. **Limited Enrollment Program:** any academic program which imposes admissions requirements in addition to general admissions to the University.
   F. **Student:** any undergraduate student who has been admitted to, and is currently enrolled in, a course or in a certificate or degree program at Marshall University, or for whom the institutional appeal period has not expired. Students enrolled in the undergraduate Nursing Program will follow these procedures.
   G. **University Community:** faculty, staff, or students at Marshall University.
   H. **President's Designee:** Chief Academic Officer.
   I. **Provost and Senior Vice President for Academic Affairs:** refers to the Chief Academic Officer.
   J. **Appeal Deadlines:** the time allowed for each level of appeal. There will be no time extensions unless granted by the Academic Appeals Board for good cause. If the appeals do not meet the established deadlines, the issue is no longer appealable.

III. *Student Academic Rights*
   Concomitant with other academic standards and responsibilities established by Marshall University and its constituent colleges and schools, each student shall have the following academic rights:
   A. The student shall be graded or have his/her performance evaluated solely upon performance in the coursework as measured against academic standards.
   B. The student shall not be evaluated prejudicially, capriciously, or arbitrarily.
   C. The student shall not be graded nor shall his/her performance be evaluated on the basis of his/her race, color, creed, sex, sexual orientation, or national origin.
   D. Each student shall have the right to have any academic penalty, as set forth herein, reviewed pursuant to the procedures in Section V. Except in those cases where a specific time is provided, this review shall occur within a reasonable time after the request for such review is made.
   E. Each student shall have access to the University catalog or program brochure in which current academic program requirements are described (e.g., required courses, total credit requirements, time in residence standards, minimum Grade Point Average, probation standards, professional standards, etc.).
   F. Each student shall receive from the instructor written descriptions of content and requirements for any course in which he/she is enrolled (e.g., attendance expectations, special requirements, laboratory requirements including time, field trips and cost, grading criteria, standards and procedures, professional standards, etc.).
   G. The instructor of each course is responsible for assigning grades to the students enrolled in the course consistent with the academic rights set out in the preceding sections.

H. Marshall University and its constituent colleges and schools are responsible for defining and promulgating:
1. The academic requirements for admission to the institution, for admission to limited enrollment programs, and for admission to professional and graduate degree programs;
2. The criteria for maintenance of satisfactory academic progress, for the successful completion of the program, for the award of a degree or certification, for graduation;
3. The requirements or criteria for any other academic endeavor, and the requirements for student academic honesty, consistent with the Policies, Rules, and Regulations of the Higher Education Policy Commission and with the fundamentals of due process; and
4. Probation, suspension, and dismissal standards and requirements.

I. Normally, a student has the right to finish a program of study according to the requirements under which he/she was admitted to the program. Requirements, however, are subject to change at any time, provided that reasonable notice is given to any student affected by the change.

IV. *Academic Sanctions: Undergraduate Students (Graduate and Medical Students Should Consult the Graduate Catalog.)*
A student who fails to meet the academic requirements or standards, or who fails to abide by the University policy on academic dishonesty, as defined by Marshall University, and its constituent colleges and schools, may be subject to one or more of the following academic sanctions:

A. A lower final grade in or a failure of the course or exclusion from further participation in the class (including laboratories or clinical experiences, any or all of which may be imposed by the instructor of the course involved).

B. Academic Probation

1. For Academic Deficiency:

- Any student who has less than a 2.0 Grade Point Average on coursework attempted at Marshall University and/or any approved coursework transferred from another institution shall be placed on academic probation. All probation students are subject to the following restrictions:
  - Meet with the Associate/Assistant Dean of their college before registering for classes to develop an Academic Improvement Plan to achieve good academic standing. This plan will be binding on the student.
  - Take a maximum of 14 hours and should repeat courses under the D/F Repeat Rule to reduce deficiencies.
  - Earn a 2.0 GPA or higher during every semester they are on probation. Failure to achieve a 2.0 semester GPA or higher while on probation will result in suspension.
  - May not register by myMU.
  - Must participate in their College's retention program.
  - Other requirements may be imposed in the Academic Improvement Plan

2. For Academic Dishonesty

Refer to the Academic Dishonesty Policy (p. 63).

C. Academic Suspension: Undergraduate Students (Graduate and Medical Students Should Consult the Graduate Catalog.)

1. For Academic Deficiency
Students who earn less than a 2.0 semester GPA while on Academic Probation or who accumulate or exceed the Quality Point Deficit for their GPA hours will be suspended for one regular semester (the summer terms do not count as a term of suspension). Students with 0-29 GPA hours will be suspended if they have 20 or more quality point deficiencies; with 30-59 hours, they will be suspended with 15 or more quality point deficiencies; with 60-89 hours, they will be suspended with 12 or more deficiencies; and with 90 or more hours, they will be suspended with 9 or more deficiencies.
When a student returns to Marshall after any suspension, the student will be placed on probation and must follow all of the requirements of his/her Academic Improvement Plan. Failure to meet all of the requirements of the Academic Improvement Plan or exceeding the Quality Point Deficits described above will result in suspension. A second suspension will be for a period of one calendar year. Third and subsequent suspensions will be for a period of two calendar years each.
2. For Academic Dishonesty
In those cases in which a student has been found guilty of a second academic dishonesty offense, he/she will be academically suspended for a period of one academic year (to include summer terms). During such period the student may not enroll in any course or program offered by Marshall University or any of its constituent colleges or schools.

D. Academic Dismissal
This is defined as termination of student status, including any right or privilege to receive some benefit, or recognition, or certification. A student may be academically dismissed from a limited enrollment program and remain eligible to enroll in courses in other programs at Marshall University; or a student may be academically dismissed from the institution and not remain eligible to enroll in other courses or programs at Marshall University. The terms of academic dismissal from a program for academic deficiency shall be determined, defined, and published by each of the constituent colleges and schools of Marshall University. Academic dismissal from a program or from the University will also be imposed for violation of the University policy on academic dishonesty.

V. *Academic Appeals*

The intent of the appeals process is to treat all parties fairly, and to make all parties aware of the appeals procedure. *Please Note:* Notwithstanding any other provision in Marshall University catalogs or policy documents, only students who are or will be dismissed from a program or from the University as a direct and immediate consequence of any academic sanction administered by the University may, at their own discretion and expense, retain

legal counsel for representation during all relevant administrative appeal proceedings.

A. Student Appeals for Instructor Imposed Sanctions:

In cases where a student is appealing a grade, the grade appealed shall remain in effect until the appeal procedure is completed, or the problem resolved.

In those cases in which a student has received an instructor-imposed sanction, including a lower final grade in or failure of the course or exclusion from further participation in the class, the student shall follow the procedures outlined below:

1. The student has ten (10) instructional days from the receipt of an individual grade on an academic exercise to begin a formal appeal. The student has ten (10) instructional days from the beginning of the next regular term (not including summer terms) to formally appeal a final grade. Appeal hearings are generally not held during the summer terms, except in cases of dismissal from program, suspension, or expulsion. Within the prescribed ten (10) instructional days, the student must attempt an informal resolution with the course instructor. If no resolution is reached, and the student wants to begin a formal appeal, the student must make an appointment and meet with a representative in the Office of Student Affairs to begin the formal appeal process. A student can reach the Office of Student Affairs by telephone at 304-696-6422 or by email at studentaffairs@marshall.edu. Within five (5) instructional days of the meeting with a representative of the Office of Student Affairs, the student must formally appeal to the instructor, in writing. The student who initiates an appeal is responsible for submitting all applicable documentation. The course instructor must respond to the student in writing within five (5) instructional days after the student has submitted the appeal documentation. If the course instructor does not respond to the student in five (5) instructional days, the appeal process continues to the department chairperson or division head. If the instructor is unavailable, the process starts with the department chairperson or division head.

2. If the formal appeal to the instructor does not have a mutually satisfactory result, the student may appeal in writing to the department chairperson or division head (or designated representative) within five (5) days after the receipt of the response from the instructor. The department chairperson or division head will attempt to resolve the issue at the departmental level. The faculty member must provide to the department chair or division head all criteria used for determining grades. The department chairperson or division head must respond to the student in writing within five (5) instructional days after the student has submitted the appeal documentation. If the department chairperson or division head (or representative) does not respond to the student within five (5) instructional days, the appeal process continues to the Dean of the college or school in which the course is offered.

3. If the formal appeal to the department chairperson or division head does not have a mutually satisfactory result, either the student or instructor may appeal in writing to the Dean of the college (or designated representative) in which the course is offered within five (5) instructional days after the receipt of the response from the chairperson or division head. The Dean of the college will attempt to achieve a mutually satisfactory resolution, and if the resolution fails, must respond to the student or instructor in writing within five (5) instructional days after the student or instructor has submitted the appeal documentation. If the person named above does not respond to the student or instructor in the given time frame, the appeal process continues to the next level.

4. Should the appeal not be resolved by the Dean of the college, either the student or instructor may appeal in writing within five (5) instructional days from the responses of the Dean to the Budget and Academic Policy Committee (BAPC) which shall refer the matter to the Academic Appeals Board to review the appeal for adherence to policy. If the appeal follows policy, the Board will schedule a hearing. If, however, the board determines that the timeline described above has been violated by the student or the instructor, or that the proper documentation has not been submitted, the board can terminate the process. The Academic Appeals Board also has the right to seek additional documentation if necessary. The Academic Appeals Board has thirty (30) instructional days to convene the members of the Hearing Panel to hear the appeal (once the requested documentation is provided by the appellant student) and five (5) instructional days after the hearing to make notification of the determination to the student and instructor. It may not always be possible to meet the above conditions because many of these appeals occur at times when school is not in session. However every effort will be made to schedule appeal hearings in a timely and reasonable manner.

5. If the determination of the Hearing Panel does not have a mutually satisfactory result, then the student or instructor may file an appeal with the Provost and Senior Vice President for Academic Affairs within fifteen (15) days of written receipt of the decision of the Hearing Panel. The decision of the Provost and Senior Vice President for Academic Affairs must be rendered in writing within fifteen (15) instructional days of receipt of the appeal, and shall be final.

B. Appeals for Academic Dishonesty:
Only individual allegations of academic dishonesty may be appealed. If a previous offense was not appealed within the time limit, or was appealed unsuccessfully, then subsequent offenses will be counted as repeat offenses and additional sanctions will be levied by the Office of Academic Affairs as described in the section on “Sanctions” in this policy.

1. In those cases where the instructor imposes a sanction pursuant to part IV, A, only, and does not refer the matter to the department chairperson or division head for additional sanctions, the student may appeal the sanction in accordance with the procedures described in part V. Academic Appeals (A).

2. In those cases where the matter is referred to the department chairperson or division head for additional sanctions, this action must occur within ten (10) days of the alleged offense. The chairperson or division head shall bring together the student involved, and the faculty member, and/or other complainant within ten (10) days from the date of referral.

3. If the student denies guilt or disagrees with the sanction imposed, or if the faculty member, other complainant, or chairperson or division head thinks that the penalties are insufficient for the act complained of, the case shall be forwarded in writing by the chairperson or division head to the student's Academic Dean within five (5) days from the date of the meeting. This person shall bring together the student, faculty member or other complainant, and the department chairperson or division head to review the charges within five (5) days from the date of referral. The student's Academic Dean may impose any sanction permitted by this policy.

4. Should the student, faculty member, or other complainant be dissatisfied with the determination of the student's Academic Dean, the case may be appealed in writing within five (5) days of the written decision to the Budget and Academic Policy Committee, who shall refer the case to the University Academic Appeals Board which determines if an appeal hearing is justified. If the University Academic Appeals Board determines a hearing is justified, the Board will schedule the hearing. The University Academic Appeals Board has the right to seek additional documentation if necessary. The University Academic Appeals Board has thirty (30) days to convene the members of the Hearing Panel to hear the appeal (once the requested documentation is provided by the appellant student) and five (5) days after the hearing to make notification of the determination to the student and instructor. It may not always be possible to meet the above conditions because many of these appeals occur at times when school is not in session. However every effort will be made to schedule appeal hearings in a timely and reasonable manner.

5. Should the student, faculty member, or other complainant be dissatisfied with the determination of the Academic Appeals Board or the Hearing Panel, then he/she may file an appeal with the Provost and Senior Vice President for Academic Affairs within fifteen (15) days from the receipt of the written decision of the Board or Panel.

6. The decision of the Provost and Senior Vice President for Academic Affairs shall be final.

C. Appeals for Academic Deficiencies:

1. In those cases in which an undergraduate student has been denied admission to a program, has been or may be placed on academic probation or academic suspension for academic deficiencies, the following procedures are applicable:

a. The student is entitled to written notice; (1) of the nature of the deficiency or reason for denial of admission to a program; (2) of the methods, if any, by which the student may correct the deficiency, and; (3) of the penalty which may be imposed as a consequence of the deficiency.

b. The student shall be given the opportunity to meet with the person(s) who has judged his/her performance to be deficient, to discuss with this person(s) the information forming the basis of the judgment or opinion of his/her performance; to present information or evidence on his/her behalf; and to be accompanied at any such meeting by an advisor of his/her choice from the University (faculty, staff, or student). Such advisors may consult with, but may not speak on behalf of their advisees, or otherwise participate directly in the proceedings, unless given specific permission to do so by the person conducting the meeting. The student is not entitled to an attorney in such meetings, and the formal rules of evidence are not applicable. The student must request such meeting in writing ten (10) days from receipt of the notice.

c. If the student is dissatisfied with the outcome of the meeting outlined in (b) above, the student may appeal the judgment to the Provost and Senior Vice President for Academic Affairs within thirty (30) days after receipt of written notice of the judgment.

d. The decision of the Provost and Senior Vice President for Academic Affairs is final.

2. In those cases in which a student has been or may be dismissed from an undergraduate academic program, or has been or may be dismissed from the institution for academic deficiencies, the following procedures are applicable:

a. The student is entitled to written notice; (1) of the nature of the deficiency; (2) of the methods, if any, by which the student may correct the deficiency, and; (3) of the penalty which may be imposed as a consequence of the deficiency.

b. The student shall be given the opportunity to meet with the person(s) who judged his/her performance to be deficient. The student must request such meeting in writing within ten (10) days from receipt of the notice. The student shall be given the opportunity to discuss with this person(s) the information forming the basis of the judgment or opinion of his/her performance, to present information or evidence on his/her behalf, and to be accompanied at any such meeting by an advisor of his/her choice from the University (faculty, staff, or student). Such advisor may consult with but may not speak on behalf of his/her advisee, or otherwise participate directly in the proceedings, unless given specific permission to do so by the person conducting the meeting. The student is

not entitled to an attorney in such meetings, and the formal rules of evidence are not applicable.

c. If the student is dissatisfied with the outcome of the meeting outlined in (b) above, the student may file an appeal in writing with the Chairperson of the Budget and Academic Policy Committee. The Chairperson of the Budget and Academic Policy Committee will refer the matter to the University Academic Appeals Board which determines if an appeal hearing is justified. If the University Academic Appeals Board determines a hearing is justified, the Board will schedule the hearing. The University Academic Appeals Board has the right to seek additional documentation if necessary. The University Academic Appeals Board has thirty (30) days to convene the members of the Hearing Panel to hear the appeal (once the requested documentation is provided by the appellant student) and ten (10) days after the hearing to make notification of the determination to the student and instructor. If the student is denied an appeal, he/she may appeal this decision to the Provost and Senior Vice President for Academic Affairs. If the student is granted an appeal, the Chairperson of the Academic Appeals Board will appoint a Hearing Panel. At least two (2) of the faculty and student members of the Hearing Panel will, if possible, be chosen from the members of the Hearing Panel Pool appointed from the constituent college or school involved. It may not always be possible to meet the above conditions because many of these appeals occur at times when school is not in session. However every effort will be made to schedule appeal hearings in a timely and reasonable manner. The student's appeal must be filed within ten (10) days after receipt of written notice of the decision outlined in (b) above.

d. If the student, faculty member or other complainant is dissatisfied with the decision of the Hearing Panel, he or she may appeal the decision to the Provost and Senior Vice President for Academic Affairs within thirty (30) days after receipt of written notice of the decision.

e. The decision of the Provost/Senior Vice President for Academic Affairs is final.

VI. *Academic Appeals Board*

A. Description and Jurisdiction:
The Academic Appeals Board is a permanent subcommittee of the Budget and Academic Policy Committee. It is composed of experienced Hearing Officers and is established to determine whether appeals arising from the following should result in a hearing:

1. Instructor-imposed sanctions, including: lowering of final course grade, failure of course, or exclusion from further participation in the class.
2. Final course grades.
3. Sanctions imposed for academic dishonesty.
4. Dismissal from an academic program.
5. Dismissal from the University.
6. Such other cases as may be referred to the Board.

B. Function:
The University Academic Appeals Board collectively decides whether:

a) The prior steps of the appeal process have been completed.
b) The claim (if substantiated) would result in the overturning of the academic sanction. This means that some policy may have been violated in the application of the sanction, arbitrariness or capriciousness may been a factor in the sanction, different standards may have been applied to the student or there may have been bad faith or ill will on the part of the instructor's applying of the sanction.
c) Appropriate documentation of the claim needs to be provided in order to justify a hearing. It is the student's job to provide documentation for his/her claims. The Board may ask for additional documentation from either students or faculty in order to determine whether a hearing is justified.

VII. *Hearing Panel*
The purpose of the Hearing Panel is to hear arguments, evaluate evidence, and reach a decision by voting in an Academic Hearing.

A. The Hearing Panel shall be composed of faculty and student members chosen in the following manner:

1. Faculty Members:
The Dean of each of the constituent colleges and schools of the University shall appoint five (5) faculty members from his/her unit to serve on the Hearing Panel Pool. Such appointments will be made annually in the spring semester with the understanding that some of these faculty members will be available to hear appeals during the summer terms and the week before the beginning of Spring semester. Terms will run from May 15 to the following May 15.

2. Student Members:
The Student Government Association President shall appoint three (3) students from each of the constituent colleges and schools of the University to serve on the Hearing Panel Pool.

3. Hearing Officers:

The Budget and Academic Policy Committee will appoint two Hearing Officers each spring. It is desirable but not required that the Hearing Officers have served on a Hearing Panel.

B. Selection of Members for an Individual Hearing Panel

An individual Hearing Panel shall be composed of two (2) faculty members, one (1) student member, and one (1) non-voting Hearing Officer. The members of the Hearing Panel shall be chosen randomly from the Hearing Panel Pool by the Chairperson of the Academic Appeals Board or his/her designee. In appeals arising from dismissal from an academic program, if possible, at least two (2) of the faculty and student members of the Hearing pPanel should be chosen from the Hearing Panel Pool members appointed from the constituent college or school involved.

VIII. *Hearing Procedures*

It is the intent of these procedures to ensure that Marshall University students receive appropriate due process in academic matters. This includes fundamental fairness, just sanctions, and all rights in accordance with the belief that academic appeal hearings at an institution of higher education such as Marshall University should have an educational objective. Academic appeals, pursuant to these procedures, are informal and not adversarial in nature.

A. The time and place of the hearing is determined by the Hearing Officer. The hearing should be held within sixty (60) days of receiving the written request. Upon written request, the Hearing Officer may, at his/her discretion, grant a continuance to any party for good cause.

B. The Hearing Officer will notify the appellee, appellant, and other appropriate parties in writing at least five (5) days prior to the hearing, of the date, time, and place of the hearing. A statement of the facts and evidence to be presented in support of the student's grounds for appeal will be provided to the appellee in appropriate cases.

C. The appellant student and the appellee have the right to an advisor. Advisors must be members of the University community (faculty, staff, or student). Such advisors may consult with, but may not speak on behalf of their advisees or otherwise participate directly in the proceedings, unless they are given specific permission to do so by the Hearing Officer.

D. The appellant student has the right, at his or her own discretion and expense, to retain legal counsel for representation only when he/she is or will be dismissed from a program or from the University as a direct and immediate consequence of any academic sanction administered by the University. In these cases an attorney is allowed to fully represent and speak on behalf of the appellant student. Rules of evidence and other formal rules of courtroom procedure do not apply. The Hearing Officer is authorized to decide what is relevant and what is not relevant.

E. Prior to the scheduled hearing, the members of the Hearing Panel may convene in closed session to examine the content of the appeal, the specific issues to be considered, and all supporting documents.

F. The student with his/her advisor, if any, will be called before the Hearing Panel and the Hearing Officer will then restate the nature of the appeal and the issues to be decided.

G. The hearing shall be closed. All persons to be called as witnesses, other than the appellant, with his/her advisor, if any, and the appellee and his/her advisor, if any, will be excluded from the hearing room. Any person who remains in the room after the hearing has begun may be prohibited from appearing as a witness at the discretion of the Hearing Officer.

H. Anyone disrupting the hearing may be excluded from the hearing room if, after due warning, he/she engages in conduct which substantially delays or disrupts the hearing, in which case the hearing shall continue and the Hearing Panel shall make a determination based on the evidence presented. If excluded, the person may be readmitted on the assurance of good behavior. Any person who refuses the Hearing Panel's order to leave the hearing room may be subject to appropriate disciplinary action pursuant to Marshall University policy. When a student appellant is excluded for disruptive behavior and does not have a recognized representative, the Hearing Officer will appoint one.

I. Except as provided in H and M herein, all evidence must be presented in the presence of the student.

J. The student or other parties involved may petition the Hearing Officer for a subpoena or a request for appropriate written information or documents

K. The student will be given the opportunity to testify and present evidence and witnesses on his/her own behalf and to discuss with, and question, those persons against whom the appeal is filed. Written evidence to be considered by the panelists should be received by the Hearing Officer at least five (5) business days prior to the hearing to be distributed to the panelists prior to the hearing. Exceptions to this five (5) day rule are at the discretion of the Hearing Officer, who may disallow long written documents or large numbers of documents from being introduced if the panelists will not have time to consider them fully.

L. The Hearing Panel may admit as evidence any testimony, written documents, or demonstrative evidence which it believes is relevant to a fair determination of the issues. Formal rules of evidence shall not be applicable in academic appeal hearings.

M. If the student appellant or the appellee fails to appear at a hearing and fails to make advance explanation for such absence which is satisfactory to the Hearing Panel, or if the student appellant or the appellee leaves before the conclusion of the hearing without permission of the Hearing Panel, the hearing may continue and the Hearing Panel may make a determination on the evidence presented at the hearing, or the Hearing Panel may, at its discretion, dismiss the appeal.

N. Upon completion of the testimony and presentation of evidence, all persons, except Hearing Panel members will be required to leave the room. The Hearing Panel will then meet in closed session to review the evidence presented. The Hearing Panel shall make its findings based upon a preponderance of evidence. The Hearing Panel shall reach its determination by a majority vote. The results shall be recorded in writing and filed with the Chairperson of the Budget and Academic Policy Committee and the Provost and Senior Vice President of Academic Affairs. If the Hearing Panel's decision includes the imposition of academic sanction, the sanction given and its duration must be specified for the record. A report of a dissenting opinion or opinions may be submitted to the Chairperson of the Budget and Academic Policy Committee and the Provost and Senior Vice President for Academic Affairs by any Hearing Officer.

O. The findings of the Hearing Panel, and any sanction, shall be announced at the conclusion of the hearing. The student, faculty member, and the appropriate Academic Dean shall be notified in writing of the findings and any sanction at the conclusion of the hearing. A record of the hearing shall be prepared by the Hearing Officer in the form of summary minutes and relevant attachments and will be provided to the student upon request.

P. No one may tape the proceedings.

Q. In an appeal related to a final grade the Hearing Officer will complete any necessary change of grade forms and submit

that information to the Registrar, the faculty member, and the appropriate Academic Dean.

R. Within thirty (30) days following receipt of the Hearing Panel's decision, the student, faculty member or other complainant may file an appeal with the Provost and Senior Vice President for Academic Affairs. A written brief stating grounds for the appeal should be presented by the student, faculty member or other complainant to the Provost and Senior Vice President of Academic Affairs. The scope of review shall be limited to the following:

1. Procedural errors.
2. Evidence not available at the time of the hearing.
3. Insufficient evidence to support the findings of the Hearing Panel or of the Academic Appeals Board.
4. Misinterpretation of University policies and regulations by the Hearing Panel or by the Academic Appeals Board.
5. A sanction disproportionate to the offense.
6. Lack of jurisdiction.

The Provost and Senior Vice President of Academic Affairs may affirm or modify the panel's findings and sanctions, if any, or remand the case to the Academic Appeals Board for further action.

S. The decision of the Provost and Senior Vice President for Academic Affairs is final. He/she will give written notification of the final decision to the student, the faculty member, the appropriate Academic Dean and as appropriate, the Registrar.

Approved by the Academic Standards and Curricular Review Committee: October 28, 1988

Approved by the Budget and Academic Policy Committee: October 21, 2004; March 4, 2005; April 17, 2009.

Revised by Faculty Senate: March 19, 2002; February 27, 2003; November 18, 2004; March 31, 2005; May 7, 2009.

Academic Suspension

See "Academic Probation and Suspension."

Academic Standing

(for more detailed information, see "Academic Rights and Responsibilities of Students**")**

Students receive official notification of academic standing in their grade report at the end of the regular semester or summer session.

Academic standing is defined by one of three categories:

1. *Good Standing:*
   The student is in good standing when the cumulative Marshall and Overall GPA (includes Marshall grades and any grades earned at other institutions), is at least 2.0. For purposes of participation in extracurricular activities, a student is considered to be in good standing if he or she is eligible to enroll in classes that semester and not under specific restriction as described in the Marshall University Code of Student Rights and Responsibilities, Section C (1-3). Individual activities or organizations may have further requirements for participation such as minimum GPA.
2. *Academic Probation:* The student is placed on academic probation at the end of any regular semester or summer session when either the cumulative Marshall or Overall GPA (includes Marshall grades and any grades earned at other institutions) is less than 2.0. The student will be notified by mail/e-mail that a hold has been placed on registration activity. This means the student cannot register or make schedule changes in myMU. All registration activity must take place in person at the Office of the Registrar or through the student's advisor. After seeing his or her advisor, the student must also get written permission from the associate dean, or appropriate college representative, of his/her college to register or make schedule changes. If a student on academic probation is taking an add/drop slip to the Office of the Registrar for course registration or adjustment, an Academic Improvement Plan (AIP) must accompany the slip at the time of registration.
3. *Academic Suspension:*
   If a student exceeds the maximum quality point deficits in the cumulative Marshall or Overall GPA (includes Marshall grades and any grades earned at other institutions) for his or her GPA hours at the end of any given semester, he or she will be suspended for the following semester. The college dean notifies suspended students by mail that a hold has been placed on their registration status and their registration for the following semester has been canceled (excluding summer terms). Please see "Academic Probation and Suspension" for details.

Accelerated Graduate Degree (AGD)

Marshall University offers an accelerated path through a number of its graduate degree programs. We encourage qualified undergraduates to consider participating in an Accelerated Graduate Degree (AGD) option, as it allows them to complete the requirements for the baccalaureate and graduate degree in less time and at lower cost..

Undergraduates accepted into an AGD program can begin taking graduate coursework during their senior year. Programs offering an accelerated master's degree option may allow up to 12 hours of graduate-level coursework. Programs offering an accelerated doctoral degree option may allow up to 18 hours of graduate-level coursework..

Programs may use one of two models for the AGD option. For those offering a 3+ graduate option, the department may allow specified graduate-level courses to double-count as fulfilling a portion of the bachelor's and master's degree requirements. For those offering an accelerated graduate degree option, the department will specify the graduate-level courses that to double-count as fulfilling a portion of the bachelor's and master's degree requirements and those graduate-level courses that will serve as electives for completion of the baccalaureate degree but not the graduate degree. Each program offering an AGD will clearly list how students may count courses for both degrees in the description of the degree options presented subsequently in this catalog.

Advantages of an Accelerated Degree

- complete the Bachelor's degree with up to 12 fewer credit hours (*Note:* Students must meet all other degree requirements for the bachelor's degree);
- begin work on the graduate degree during the senior year;

- complete a portion of graduate credits paying undergraduate tuition rates;
- earn a bachelor's and graduate degree in less time.

Programs Available

Currently, the Accelerated Graduate Degree is offered in these master's programs:

- Civil and Environmental Engineering
- Early Childhood Education
- Engineering Management
- Biological Sciences
- Criminal Justice
- Geography
- Health Informatics
- Psychology
- Sociology
- Sport Administration

Eligibility Requirements for Accelerated Graduate Degree

- must have completed at least 90 hours toward the bachelor's degree;
- must have at least a 3.30 overall undergraduate GPA;
- must have at least a 3.30 GPA in the major;
- must meet the admission requirements of the chosen master's degree program. (*Note:* AGD programs may have admission requirements that differ from the admission requirements for the regular master's degree. For example, some departments might waive the required admission test, such as the GRE, GMAT or Miller Analogies. Students should check with the chosen graduate degree program.)

How to Apply

1. During the junior or senior year, eligible students should meet with their undergraduate advisor and the Director of Graduate Studies of their chosen graduate degree program to develop an AGD Plan of Study. The Plan of Study form is available online at the Graduate Studies website. The completed, signed, and approved Plan of Study must be submitted to the Academic Dean. Any changes to the AMD Plan of Study must be approved by the undergraduate advisor and Director of Graduate Studies and submitted in writing to the dean.
2. The student's acceptance into the AGD program is subject to the approval of the Plan of Study by the dean.
3. Students accepted into the AGD program should apply for admission to the chosen graduate degree program for the first semester after the bachelor's degree is awarded. Applications should be submitted during the last semester of the senior year.

Requirements for Continuation in the AGD Degree Program

Students must maintain a minimum GPA of 3.0 for all graduate credit toward their graduate degree program.

Withdrawal from the AGD

A student may withdraw at any time from an approved AGD program by informing the undergraduate advisor, the Director of Graduate Studies, and the Academic Dean. A student's status will then revert to the standard undergraduate degree program. Any graduate hours earned must be approved for use in fulfillment of bachelor's degree requirements by the student's Undergraduate Dean.

From Undergraduate to Graduate Student

Beginning with the semester after the student has earned the bachelor's degree and has been accepted into a master's degree program, the student is assessed tuition and fees at the graduate rate. All rules regarding graduate education will apply to the student once admitted into the graduate degree program.

Additional Baccalaureate Degrees

It is possible to earn more than one baccalaureate degree by meeting these requirements:

- completing all of the major requirements for the desired degree;
- completing the college requirements for each desired degree;
- completing a minimum of 30 additional hours for each degree beyond the 120 hours required for the first baccalaureate degree (this means completing a total 150 hours for a second baccalaureate, 180 for a third baccalaureate, and so on);
- meeting the minimum residency requirement of 24 credit hours.

Grade Point Averages and graduation with honors must conform to existing university policies.

Advising

Although students are ultimately responsible for selecting a major and planning their course schedules, advising services are available to all students.

- The college office may assign an advisor to students with a declared major.
- Undecided students are advised by University College.
- Students on academic probation are also required to meet with the associate dean of their college for written approval to register or change their schedule.

The academic advisor is a very good person to get to know. He or she will help with advice and support with academic or career questions. Students usually see their advisors during registration periods, but all faculty advisors are available during office hours throughout the semester. Students should take the initiative and arrange an appointment with their advisors at any time during the semester when they need advice or help.

Some colleges require their students to consult with an academic advisor before they can register. The college office places an advising hold on the student's registration. This hold remains until the student has met with the appropriate advisor. Students should consult their college dean or major department for specific advising requirements.

Appeals Board

See "Academic Appeals" under "Academic Rights and Responsibilities."

Area of Emphasis

An area of emphasis is a specific subject area of study which has limited course offerings within an approved degree program and major. Normally, a minimum of twelve (12) credit hours would be expected for an area of emphasis at the undergraduate level.

Auditing Courses

Audit students enroll only for purposes of refreshing or acquainting themselves with the material offered in the course. Students can audit a course when there is space available in the class and the instructor authorizes audit status. Audit students receive no academic credit. Enrollment for audit is limited to the regular registration period for the semester or term. A student must enroll for the course as an Audit, and must pay fees in the same way and at the same tuition rate as students enrolling for credit. Faculty members who wish to audit courses must secure approval of the instructor of the course and must enroll in the regular way. The instructor of the course will determine attendance and any other special requirements for audit students. It is the instructor's responsibility to discuss the requirements of the course with the auditor. The instructor can notify the student's college dean and the Registrar's Office to withdraw the auditor from the class if attendance or other requirements are not met. **A student cannot change a registration from credit to audit or audit to credit after the close of the Schedule Adjustment period at the beginning of a semester or summer term.**

Catalog of Record

The catalog of record is the academic catalog that is in effect at the time the student declares a major. It identifies the graduation requirements that must be met to earn the degree. Once a major is declared, the catalog of record remains the same. A student has 10 years in which to complete the degree. If within that 10 year period the student changes majors or transfers colleges at Marshall, the catalog at the time of the change of major becomes the catalog of record. The student then has 10 years in which to complete the degree under the new catalog. If a student exceeds the 10 year period, the catalog of record is the one in effect at the date of graduation. A student may change a catalog year without a change of program or minor only to a more recent catalog. The student may request this change formally through the office of their dean. Students can substitute courses no longer offered with the permission of their college dean. (Education majors: see the residency requirements in the College of Education and Professional Development section (p. 405) of this catalog.)

Class Attendance

Policy Statement

Students are expected to attend punctually all class meetings, laboratory sessions, and field experiences and to participate in all class assignments and activities as described in the Course Syllabus. Absences are counted from the first class meeting after the student registers. Students registering late are expected to make up all missed assignments in a manner determined by the instructor. Students should be aware that excessive absences, whether excused or unexcused, may affect their ability to earn a passing grade.

The instructor of each class shall establish a policy on class attendance and make-up work, and provide the policy to students in the Course Syllabus. This policy must not conflict with university policies, including this policy. Class attendance may be a criterion in determining a student's final grade in the course if the instructor provides a statement to this effect in the course syllabus.

Students must promptly consult with their instructors about all class absences. Instructors will work with students to identify appropriate documentation and discuss any missed class time, tests, or assignments.

Except in the case of University Excused Absences, it is the decision of the instructor to excuse an absence or to allow for additional time to make up missed tests or assignments. A student may not be penalized for an excused absence, provided that the student, in a manner determined by the instructor, makes up the work that has been missed.

Instructors are required to honor valid University Excused Absences and to provide reasonable and equitable means for students to make up work missed as a result of those absences. Academic obligations that cannot be made up should be addressed by the course instructor in consultation with the student to ensure that continued enrollment is feasible while there is still an opportunity to drop the course within the established withdrawal period.

This policy excludes academic endeavors that require the completion of a specific number of clock hours, such as clinical experiences, practica, and internships. For those courses, the department chair or program supervisor will determine the maximum number of absences. This policy does not supersede program accreditation requirements.

This policy also excludes laboratory courses that require significant preparation and monitoring. For such courses, departments will determine the minimum number of laboratories a student must complete to pass the course. If a student cannot complete this number of labs, the instructor may recommend that the student withdraw from the class.

If the instructor believes that the number of absences accrued under the terms of this policy (whether excused or unexcused) is such that a student cannot fulfill the learning experience and mastery that a course requires, the instructor may recommend that the student withdraw from the class.

University Excused Absences

These are addressed by the instructor or the Assistant Dean of Advocacy and Support as described in each item. Appropriate documentation is required for each absence. The Student Advocate and Success Specialist will notify course instructors of his or her actions using the university e-mail system.

1. **University-sponsored activities.** Student participation in authorized activities as an official representative of the university. Such activities include official athletic events, ROTC, student government and student organization activities, regional or national meetings or conferences when endorsed by an academic or organization faculty advisor, performances, debates, and similar activities. The Assistant Dean of Advocacy and Support addresses these absences.
2. **Medical circumstances.**
   a. A student who is briefly ill or injured with fewer than three consecutive hours of class (see (b) below), and is therefore unable to attend class, should first consult with his or her course instructor about the absence. If necessary, the

instructor may refer the student to the Assistant Dean of Advocacy and Support.

b. The Assistant Dean of Advocacy and Support will address absences of three or more consecutive hours of class. This includes absences of three consecutive one-hour class meetings, one three-hour class meeting, etc.

3. **Death or critical illness of an immediate family member.** Immediate family is defined as parents, legal guardians, siblings, children, spouse or life partner, grandparents, and grandchildren. The Assistant Dean of Advocacy and Support addresses these absences.
4. **Other official activities.**
   a. **Short-term military obligations.** The Assistant Dean of Advocacy and Support addresses these absences. Students who are subject to federal military activation are covered by a separate policy. Please consult the catalog for this policy.
   b. Jury duty, subpoenas for court appearance, religious holidays, and other official activities deemed by the Assistant Dean of Advocacy and Support to warrant an excused absence.
5. **Extreme personal emergencies.** Examples of such events include house fires, serious crimes, and other grave emergencies deemed by the Assistant Dean of Advocacy and Support to warrant an excused absence.

Classification of Students

Classification of students is based on the number of college level credit hours earned as shown following:

Classification	Semester Hours
Freshman	0-29
Sophomore	30-59
Junior	60-89
Senior	90 or more

Course Numbers	Level
100-199	freshman level
200-299	sophomore level
300-499	junior and senior level
500 or above	graduate level

Contact Information

Students are required to have a valid, permanent address on file with the university. Updates to this address should be made online in the Student Information section of myMU.

Students must use their official Marshall e-mail addess when communicating with university offices and faculty, unless otherwise instructed, such as for online courses.

Course Substitution

Students may apply for course substitutions or waivers to accommodate disabilities under the following policy:

Conditions

A student seeking a course substitution or waiver due to the presence of a disability must meet the following conditions:

- Completion of the Course Substitution/Waiver Form. This form requires that the student attach a recent (within two years) diagnosis of a disability warranting a substitution or waiver. (The form is available in the Office of Disability Services, the H.E.L.P. office, the Buck Harless Student Athlete Program office, college deans' offices, and the office of the Dean of Student Affairs.) A licensed psychologist, a licensed school psychologist, or a properly credentialed education specialist must have made the diagnosis in the case of a learning disability.
- Verification on the Course Substitution/Waiver Form from the dean of the student's college, upon recommendation by the faculty of the department in which the student is a major, that the course for which a substitution is requested is not an integral part of the student's course of study. If the course is integral to the course of study the substitution or waiver request shall not go forward.

• Submission of the Course Substitution/Waiver Form to the Office of Disability Services.

The Committee

The Course Substitution Committee will consist of three faculty members. Two faculty members, appointed annually, will have expertise in areas related to disabilities and academic accommodations. The first faculty member will be the Director of the Psychology Clinic or designee. The second faculty member must have expertise related to accommodating disabilities and is appointed by the Dean of the College of Education. The third faculty member is to have expertise in the discipline of the course for which the student is applying for substitution or waiver. This faculty member will be appointed by the dean of the college that houses the discipline of the course for which the substitution/waiver is requested. The Office of Disability Services is responsible for notifying the appropriate academic dean that an appointment is necessary for the purpose of considering appropriate courses for substitution.

Procedure

The student submits the Course Substitution form to the College Dean's Office and the Dean completes their portion and sends the form to the Office of Disability Services. The student provides the Office of Disability Services with the diagnosis documentation. If approved a letter of approval of accommodation is mailed to the dean and student. The student will then need to meet with the associate dean to discuss the class options for accommodations.

The Office of Disability Services confirms that a diagnosis of a disability is presented by the student and that the disability is known to hinder or prevent successful completion of the course of study for which the substitution is requested. If there is no such diagnosis the request is denied. If the appropriate diagnosis is presented the Office of Disability Services proceeds to form the committee by securing, from the appropriate academic dean, the third faculty appointment required for the Course Substitution Committee. All materials submitted by the student are forwarded to the committee members with a certification that the student has presented a diagnosis of a disability warranting a substitution. The committee is charged with identifying courses that would constitute appropriate substitution and reporting these courses to the Office of Disability Services.

A representative of the Office of Disability Services convenes the Course Substitution Committee and facilitates its work. The committee will meet up to two times a semester to address all pending requests and assign specific courses for substitution. The Office of Disability

Services will report decisions to the student and include the student's dean on all correspondence.

A student who is denied a course substitution or waiver may appeal in writing within 10 working days to the Provost/Senior Vice President for Academic Affairs, whose decision is final.

Students should be aware that a course substitution/waiver would not be valid at any other institution and would have to be approved by the new college or department if the student changes major or declares a second major at Marshall University.

Approved by Faculty Senate, January 24, 2003
Amended April 8, 2014

Credit by Examination

Course credit by examination is granted at Marshall in some academic departments. Students interested in earning credit this way should contact the chairperson of the department in which the course is offered. With the department chair's permission, the student should obtain a "Credit by Examination" form from the Registrar. This form must be signed for approval by the department chair, the dean of the student's college, and the Registrar. If the student is not a full-time student, he/she must also pay a $30.00 examination fee. The grade received on the special exam will be applied to the student's transcript. Students may not use Credit by Examination to repeat a course under the *D/F* Repeat Rule.

Credit Hour (same as Semester Hour)

Generally a student earns one credit for each 15 hours of class contact. Classes normally meet 45 hours in a semester for 3 units of credit. Students should plan on two hours of preparation/study for each in-class hour. Laboratory classes require two or three hours of lab per week for each semester hour of credit.

Dead Week

The last five class days of the fall and spring semesters are designated as "dead week." During this period, instructors cannot give exams that count as 15% or more of the final course grade. They can assign major papers and/or projects which count as 15% or more of the final course grade **only** if the assignment is stated in the course syllabus. Instructors can introduce new material and give make up exams during the Dead Week. The Dead Week policy is not applicable to night classes, laboratories, freshman English composition courses, and any classes meeting once a week.

Dead Week is not applicable to Intersession or Summer Sessions.

D/F Repeat Rule (Repeating Courses)

If a student earns a grade of *D* or *F* (including failures due to regular and/or irregular withdrawal) on any course taken no later than the semester or summer term during which the student attempts the ninetieth semester hour, and if that student repeats this course prior to the receipt of a baccalaureate degree, the original grade shall be disregarded and the grade or grades earned (excluding a *W*) when the course is repeated shall be used in determining his/her Grade Point Average. The original grade shall not be deleted from the student's record. The *D/F* Repeat policy may be applied only one time to a specific course. A student may not repeat a course to change a grade of *C* or better.

The *D/F* Repeat Rule applies only to graduation requirements and not to requirements for professional certification which may be within the province of licensure boards, external agencies, or the West Virginia Board of Education.

*During the policy transition, this policy will be retroactively applied once to completed courses for each qualifying student and will be applied in instances where the GPA will remain the same or improve. Repeated courses beginning in Fall 2022 will be processed under the updated policy.

Adopted by West Virginia Higher Education Policy Commission (Series 22) Effective August 1, 2002.

Dean's List (see also President's List)

Students registered for 12 or more hours of courses for which they receive letter grades, and who at the end of a semester have Grade Point Averages of 3.3 or above, are considered honor students. The names of these students make up the "Dean's List" in their undergraduate college.

Degree Program

A degree program is a unified series of courses or learning experiences that lead to a degree.

Distance Education Courses

According to the Higher Education Opportunity Act, "distance education" is defined as education that uses one or more of the following technologies to deliver instruction to students who are separated from the instructor; and to support regular and substantive interaction between the students and the instructor, synchronously or asynchronously. The technologies used may include: the Internet; one way and two way transmissions through open broadcast, closed circuit, cable, microwave, broadband lines, fiber optics, satellite, or wireless communications devices; audio conferencing; or videocassettes, DVDs, and CD-Roms (PL 110–315, 14 AUG. 2008). At Marshall University, distance education courses consist of three formats: online courses, virtual courses, and hybrid courses.

Online Courses

The term "online course" refers to any distance education course in which 100% of the course content is delivered asynchronously by technological means. There are no synchronous, face-to-face, or on-site attendance requirements because online courses are the electronic versions of classes offered on the Marshall campus delivered completely over the Internet. Online courses are accessible through MUOnLine which is powered by Blackboard, a set of online course tools and supporting software. Communication between students and instructors can occur by any electronic means and there are no required on-campus or real-time meetings.

Online courses generally follow the Marshall University calendar for the term in which they are offered, but individual exceptions may apply. Students should check the syllabus for each individual class for a beginning and ending date. Students may register for online courses using myMU during the designated registration periods each term, in person at the Registrar's Office, or by mail. Hours of enrollment

are reflected in the actual term in which the student is registered. For all verification purposes, hours of enrollment are counted only in the term in which the student is registered. Note that the withdrawal period for online courses parallels that of regular courses. After that time, only a complete withdrawal from the university is allowed. The refund policy for online courses also parallels that of regular courses.

Online courses are currently assessed a fee per credit hour for undergraduate courses regardless of residency or number of credit hours the student may be registered for in addition to the online courses. Academic and lab fees may also apply depending on college or school policies. For example, students in the College of Health Professions will still be responsible for clinical and program fees in addition to the online course fee. Likewise, students in the College of Business are still required to pay the technology fee in addition to the online course fee.

Virtual Courses

"Virtual course" refers to any course that employs technological means for live, synchronous class meetings (e.g. live video). An in-person delivery format may also be available simultaneously. Virtual courses require that students attend all class meetings at designated dates/times. Students should check the syllabus for each individual class for equipment requirements and attendance information. There is no additional fee for a virtual course, and they follow all regular university registration and withdrawal periods outlined in the academic calendar.

Hybrid Courses

"Hybrid course" refers to any distance education course in which 75% or more of the course content is delivered by technological means. There will be synchronous, face-to-face, or on-site attendance requirements described in the course syllabus that may require Internet access, a webcam and/or headset with microphone for real-time communication. Hybrid courses may also use MU OnLine and require that students attend online class meetings at designated dates/times. Students should check the syllabus for each individual class for equipment requirements and attendance information. There is no additional fee for a hybrid course and they follow all regular university registration and withdrawal periods outlined in the academic calendar. Students may register for online courses using myMU during the designated registration periods each term, in person at the Registrar's Office, or by mail.

Double Major

Students can major in more than one discipline by completing the requirements for both majors. If the two majors are in different colleges, the student must secure permission from both college deans in order to pursue both majors. For administrative purposes, the student can only be housed in one college; this is the college of record which maintains the student's records. The student would only complete the **college** requirements of the college of record. To earn dual degrees, see "Additional Baccalaureate Degrees."

Dropping All Courses (Withdrawal from the University)

Final Date:

Total Withdrawal from the university is defined as dropping all classes for which a student is registered. A student who wishes to totally withdraw from the university must first secure the signature of the Director of Student Success and then present the request to the Registrar in person, by e-mail, or by mail. If the request is made in person, a drop form bearing the signature of the Director of Student Success must be submitted to the Registrar's Office. Requests by e-mail must be sent from the student's MU email account. For mailed requests, the postmark will be the official date of withdrawal. In cases where the student is unable to secure the physical signature of the Director of Student Success, permission may be obtained via e-mail.

Grades Assigned for Withdrawal from the University

In all cases of dropping courses or total withdrawal from the university the instructors will report grades as follows:

- A student dropping courses or totally withdrawing from the university on or before 5 instructional days prior to the last class day in any semester or term will receive a grade of "W." Exact "W" dates are identified in the annual university Academic Calendar.
- A "W" grade (withdrew) will have no bearing on the student's grade point average but may affect a student's Satisfactory Academic Progress (SAP) for purposes of financial aid.
- Students who drop courses without approval, or who do not follow regulations provided in the preceding paragraphs, receive a grade of "F" at the end of the semester.
- Students who are enrolled in a first 8-weeks course(s) and totally withdraw from the university after the last day of the first 8-week term will still earn grades for the first 8-week term.

Dropping Individual Courses

Final Date: Tenth Friday in a Regular Term

A student who wishes to withdraw from an individual course after the schedule adjustment period must submit an electronic Course Withdrawal Request Form linked on the Office of the Registrar website and the Undergraduate Advising website

The Course Withdrawal Request Form initiated by the student will provide options for the student to acknowledge prior advising, request advising, or deny advising. Requests initiated by students on academic probation will be electronically forwarded to the advisor, associate dean/dean, or other designated college official (as authorized by the Office of the Registrar) for permission. Upon advising, if requested, and/or college permission, the withdrawal will be processed by the Office of the Registrar effective the date of the student's initial submitted request. Student, Office of the Registrar, instructor, advisor, associate dean/dean, and/or other designated college official will receive notification of course withdrawal.

- **Day or Night Classes:** Students can drop individual courses after the Schedule Adjustment period and during the Withdrawal period which lasts until five instructional days prior to the last class day as defined in the academic calendar for each term. The exact last day for dropping individual courses is always published in the Academic Calendar for any given semester or term.
- **E-Course Withdrawal Period:** The withdrawal policy for e-courses parallels that for regular courses. After that time, only a complete withdrawal from the university is allowed. The refund policy for e-courses also parallels that of regular courses.

- **High-demand course:** If a student drops a "high-demand" course during the Withdrawal period, he/she will not be able to pre-register for the course for the following semester. High-demand courses include:

Code	Title	Credit Hours
ACC 215	Accounting Principles (CT)	3
BSC 227	Human Anatomy (with BIO 227L)	3
BSC 227L	Human Anatomy Lab	1
ENG 101	Beginning Composition	3
ENG 201	Advanced Composition	3
MTH 121	Concepts and Applications (CT)	3
MTH 127	College Algebra-Expanded	5
MTH 130	College Algebra	3
SPN 101	Introductory Spanish	3
SPN 102	Introductory Spanish II	3

Students can obtain an up-to-date listing of high-demand courses from the Office of the Registrar.

Grades Assigned for Dropping Individual Courses

A student dropping courses or withdrawing from the university during the Withdrawal period will receive a grade of *W*. The withdrawal period begins on the first instructional day after the schedule adjustment period and continues until five instructional days prior to the last day of class in any semester or term for individual course withdrawals and to the class day (as defined in the academic calendar for each term) for complete withdrawals. The *W* grade (withdrew) has no impact on a student's Grade Point Average.

Students who are enrolled in a first 8-weeks course(s) and totally withdraw from the university after the last day of the first 8-week term will still earn grades for the first 8-week term.

Exceptions

Military Service

Men and women called to active duty in the armed services of the United States are granted full refund of fees, but no credit, if the call comes before the end of the first three fourths of the semester or term, and full credit, but no refund of fees, is granted if the call comes thereafter. However, credit is granted only in those courses in which the student is maintaining a passing grade at the time of departure to military service. The term "called to active duty" is defined as being called to active duty as the result of the federal activation of a total reserve component, National Guard unit, or any portion which involves a particular student or an individual who is a bona fide member of the reserve component or a National Guard unit. The final grades, both passing and failing, for three fourths of a semester or more are shown on the student's permanent record. *Please note:* Students called to active duty should present a copy of activation orders to the Office of the Registrar to ensure proper handling of their academic records in accordance with this policy.

Medical Reasons

See "Medical/Emergency Withdrawal Policy."

Electronic Courses

See "Distance Education courses."

Final Exams

Absence from Final Exams

Students are required to take all regular examinations. If a student attends a course throughout the semester and is absent from the final examination without permission, the instructor counts the examination as zero and reports the final grade of *F*. If the absence is the result of illness or some other valid reason beyond the student's control, the instructor reports a grade of *I*. In all cases, the student must verify the reason for the absence. (See "Incomplete" under Grades and Quality Points.)

Rescheduling of Final Exams

If a student has final exam conflicts or has three or more final exams scheduled for the same day, he/she should follow these steps:

- pick up a "Final Examination Rescheduling Form" from the major department or the college office;
- fill in the top part of the form in which he/she must show his/her complete final exam schedule;
- take this to the dean for verification;
- take the verified form to one of his/her class instructors and attempt to make a rescheduling agreement (date, time, place);
- if the student and instructor reach an agreement, the instructor should sign the form, keep a copy, and send a copy to the dean of the student's college;
- if an agreement cannot be reached, the instructor should note this fact and sign the form. In this case, the student should try to reach an agreement with the instructor of another class in conflict;
- if no instructors agree to reschedule and the student has all comments and signatures on the form, take the form to the Provost and Senior Vice President for Academic Affairs (OM 110);
- the Provost or designee will determine if an exam should be rescheduled and if so, the time, date, and place–the student and the instructor will receive written notice of any rescheduling;
- the Provost's ruling can only be modified by an agreement between the instructor and the student;
- if the student rejects a ruling by the Provost, he/she thereby agrees to take each exam at the scheduled time.

Note: **the Provost will not consider any form submitted less than one week before the first day of finals, or any form that is incomplete. An instructor is not required to reschedule a final exam at the student's request.**

Full-time Student

A full-time student must carry at least 12 semester hours of undergraduate courses or a combination of 12 semester hours of undergraduate and graduate courses in a regular semester; during a five week summer term, a full-time student must carry at least 4 semester hours.

Grade Appeal

See section entitled "Academic Rights and Responsibilities of Students."

Grade Information and Regulations

Grade Point Average Defined

A Grade Point Average (GPA) is a numeric value calculated by dividing total quality points by total credit hours attempted (courses in which a student earned a letter grade). The Grade Point Average computed for graduation purposes (not necessarily each semester), is based on all work attempted with these exceptions:

- Courses with grades of *W*, *I*, *CR/NC*, and *AU*
- Grades of *D* or *F* repeated under the *D/F* Repeat Policy
- Developmental courses

1. An overall Grade Point Average is a calculation based on credit earned at Marshall **and** all other accredited institutions of higher learning;
2. A Marshall Grade Point Average is a calculation based on credit earned at Marshall **only**.

Quality Points Defined

Quality points are numeric values assigned to letter grades that allow a student to calculate a Grade Point Average (GPA). Quality points are based on these values for **each** semester hour of credit: *A*=4; *B*= 3; *C*= 2; *D*= 1; and *F*= 0. When the GPA is a 2.0, the student has neither a surplus nor a deficiency of quality points. If the GPA is below a 2.0 the student will have a **deficiency of quality points ("deficit points")** resulting from excessive grades of *D* and/or *F*. Grades of *A* and/or *B* can help to earn a surplus of quality points.

GPA Calculation

The following example is provided as a guide for calculation of the GPA:

First Semester

Course	Grade	Quality Pts.	Credit Hrs	Total Quality Pts.
ENG 101	B	3 x	3 =	9
SOC 200	A	4 x	3 =	12
MTH 121	D	1 x	3 =	3
PEL 115	B	3 x	1 =	3
UNI 100	CR	0 x	(1) =	0
BSC 104 and BSC 104L	C	2 x	4 =	8
Total			14	35

Multiply the number of Quality Points for each grade by the number of Credit Hours for that class. Divide the total number of Quality Points for the semester (35) by the total number of Credit Hours (14). This yields a GPA of 2.50 for the semester.

Second Semester

Course	Grade	Quality Pts.	Credit Hrs	Total Quality Pts.
BSC 105 and BSC 105L	D	1 x	4 =	4
PSY 201	C	2 x	3 =	6
HST 101	F	0 x	3 =	0
CMM 103	D	1 x	3 =	3
PHL 201	C	2 x	3 =	6
Total			16	19

Multiply the number of Quality Points for each grade by the number of Credit Hours for that class. Divide the total number of Quality Points for the semester (19) by the total number of Credit Hours (16). This yields a GPA of 1.18 for the semester.

To determine this student's cumulative GPA (the GPA for both semesters), add the total Quality Points for both semesters (54) and divide by the total Credit Hours for both semesters (30), resulting in a 1.8 GPA.

Note that this cumulative GPA is under 2.00. Since it is less than 2.00, this student has a **quality point deficiency**. Her college will place her on academic probation and she will remain there until future grades eliminate the deficiency.

Marshall and Overall GPA

A *Marshall Grade Point Average* is a calculation based on credit earned at Marshall **only**.

An *Overall Grade Point Average* is a calculation based on credit earned both at Marshall **and** all other accredited institutions of higher education. Both GPA's are calculated for eligibility and graduation purposes.

Types of Grades

- *Credit/No Credit Option:* A student may choose to take a maximum of 18 semester hours on a credit/no credit basis toward fulfillment of requirements of a baccalaureate degree. Credit completed through the College Level Examination Program (CLEP) or Advanced Placement, as well as approved foreign study, does not count as a part of the 18 hour limit under the *CR/NC* option. Students make the decision to take a course on a credit/no credit basis at the time of registration and cannot change this after the end of the Schedule Adjustment period. Courses taken *CR/NC* must be in areas other than the student's major or teaching specialization, although approved foreign study courses can be taken *CR/NC*. (See "Study Abroad" section elsewhere in this catalog.) Some departments and colleges have additional regulations regarding *CR/NC*.
  A student must earn a letter grade of C or better to receive a CR grade. A grade of NC is recorded for work that would earn a letter grade of D or F. All withdrawals under the CR/NC option will receive a W grade. The CR/NC grade has no impact on the Grade Point Average.
- *Incomplete:* The grade of I (incomplete) indicates that the student has completed three-quarters of the course, as determined by the instructor, but cannot complete the course for a reason that accords with the university excused-absence policy. For courses (traditional or online) that do or do not have a defined absence policy, it is determined by the instructor to issue the I grade. Students must be in good standing (for example a C grade or better) in the class prior to requesting an incomplete. The course instructor decides whether or not an incomplete will be granted and specifies in writing on the university incomplete grade form what work the student must complete to fulfill the course requirements. The student has until the end of the next fall or spring semester from the date of receipt of the incomplete grade in which to complete the course, or the instructor may establish an earlier deadline. If special circumstances exist, which

prevent the student from completing the course in the prescribed time, the incomplete may be extended with the written approval of the instructor, the instructor's chair or division head, and the instructor's dean noting the time period for the work to be completed. If the student satisfactorily completes the course in the prescribed time he/she will receive a letter grade. If the student fails to complete the course requirements during the stipulated time, the grade of I changes to a grade of F, NC, or U, depending on the type of grade appropriate for the course. All grades remain on the student's permanent record as originally submitted by the course instructor, except for I grades that have been completed and changed by the instructor. Any grade change is added to the permanent record.

In the event that the faculty member leaves the institution or is no longer available, the disposition of incomplete grade or grades is the responsibility of the chair, the dean, or the provost. If the the chair is unavailable, the responsibility falls on the dean; if the dean is unavailable the responsibility goes to the provost. The decision will be made in consultation with the faculty in the appropriate discipline.

An *I* grade may also be assigned to students in flight lab or ground school courses in the Bill Noe Flight School, when the student is making satisfactory progress towards completion but is unable to complete the course during the semester. These *I* grades will be approved by the instructor and the director of the flight school.

- *W (Withdrew):* If a student drops courses during the Withdrawal period (which lasts until the tenth Friday after the first week of the regular semester), or withdraws completely from the university through the last day of class, he/she will receive a W. For eight week courses, summer session courses, and other courses of varying lengths, the W period ends the Friday immediately following the two thirds point in the course. Exact W dates are published in the annual University Academic Calendar. The W (withdrew) has no impact on the Grade Point Average. (Please be aware that withdrawing from a course may change a student's status from that of full-time to part-time student—a full-time student is enrolled for 12 hours or more. Part-time status could negatively affect financial aid, athletic participation, or health insurance eligibility.)

Final Grades

Marshall University mails final grades only upon student request. Grades will be available online using myMU. Requests to have grades mailed to the permanent address in the student information system may be submitted online using myMU or by submitting a written request to the Office of the Registrar, One John Marshall Drive, Huntington, WV 25755. Written requests must contain name, student number, and signature of the student.

Midterm Grade Reports for Freshmen and Sophomores

Shortly before the middle of the Fall and Spring semester (around the eighth week), all faculty evaluate the freshman and sophomore students in their classes. Freshman and sophomore students who are earning the equivalent of a grade of D, F, or NC at this time will receive a grade report mailed to their permanent address and a letter explaining how they can improve their academic performance. A midterm grade is not a promise of a particular final grade nor is it recorded on the student's official transcript. It is intended only as an early warning.

Graduation Information

Academic Requirements

A student's college will make the final check of courses required, total earned credits, degree, and GPA requirements, as well as other university-wide requirements. To receive a baccalaureate degree from Marshall University, a student must:

- Have a minimum of 120 credit hours (some colleges or majors require more);
- Have an overall Grade Point Average of 2.00 or higher;
- Have a Marshall Grade Point Average of 2.00 or higher;
- Have an overall Grade Point Average of 2.00 or higher in the major area of study;
- Have earned a grade of C or better in English 201 or 201H;
- Have met all major(s) and college requirements;
- Have met the requirements of the Core Curriculum;
- Have met the residence requirements of Marshall University, including 12 hours of 300/400 level coursework in the student's college (see section entitled "Residence Requirements");
- Be enrolled at Marshall at least one semester of the senior year;
- Have transferred no more than 72 credit hours from an accredited West Virginia two-year institution of higher education.

Colleges and specific programs may have unique requirements that are more stringent than those noted above. Students are responsible for staying informed about and ensuring that they meet the requirements for graduation.

Application for Graduation

Students must apply for graduation at the beginning of the semester or term in which they intend to complete graduation requirements. They can complete the graduation application online through myMU prior to the posted deadline in the online Academic Calendar. Students can also complete the application through their college dean's office. The university requires graduates to pay a diploma fee that can be paid through myMU as part of the online graduation application process or at the Bursar's office. A receipt for this fee must accompany the application if it is submitted to the college dean's office.

Commencement/Graduation Dates

Marshall University observes two Commencement Exercises and four graduation dates during an academic year. The official graduation dates are:

- last day of final examinations in July;
- last day of final examinations in August;
- day of Commencement in December;
- day of Commencement for the spring semester.

Students who complete all requirements for a degree at any time other than the above dates will be graduated on the next successive date. Students will not be graduated on any dates other than those noted above. Students who are graduated at the end of summer terms are invited to attend the fall Commencement Exercises.

Honors Graduation

Baccalaureate Degree

Baccalaureate degree candidates who have achieved special distinction in academic work are recognized at Commencement Exercises. Their

honor status is printed on their diplomas and transcripts. Honor status is determined by this scale for the final cumulative Grade Point Average:

- Summa cum laude (3.85 and above)
- Magna cum laude (3.60 to 3.84)
- Cum laude (3.30 to 3.59)

Note: Honor calculations are not rounded.

For May graduates, honors recognition at Commencement is based on academic standing prior to the Spring term. For December graduates, honors recognition at Commencement is based on academic standing prior to the Fall term. The diploma and transcript will reflect honors standing after calculation of final grades.

Honors eligibility for transfer students (baccalaureate degree):

Transfers from in-state public institutions: Honors are calculated on the overall GPA

From a two-year college in WV state system: must have earned at least 56 hours of work at Marshall University.

From a four year institution in WV state system: must have earned a minimum of 36 hours of work at Marshall University.

Transfers from non-West Virginia public institutions: Honors are calculated on the overall and Marshall GPA

All other transfer students: must have earned at least 64 hours of work at Marshall, at least 50 percent of which must be upper division work (300/400).

Associate Degree:
Associate degree candidates for graduation who have achieved special distinction in academic work are recognized at Commencement. Their honor status is printed on their diploma. Honor status is determined by this scale for the final cumulative Grade Point Average:

With High Honors 3.70 and above

With Honors 3.30 to 3.69
Note: Honor calculations are not rounded.

Honors eligibility for transfer students (associate degree):

A transfer student must have earned at least 36 hours of work at Marshall, 32 of which must be applicable to an associate degree program and must have attained honors for all work attempted at Marshall and honors for all academic work attempted at the collegiate level regardless of the institution attended.

Residence Requirements
For all undergraduate degrees (see exceptions below), at least one year's work in residence is required. "In residence" means to be enrolled in Marshall University courses. A "year in residence" comprises at least 24 hours credit earned in at least two semesters' work in residence or one semester and two summer terms in residence. One semester must be in the senior year. **Transfer students** must take at least 12 hours of 300/400 level coursework in their college and at least 15 hours in their major field except for Combined College and Professional Programs.

Exceptions:

- College of Education students must meet the college residency and teacher certification requirements.
- Regents Bachelor of Arts Degree.
- All students should check with their own colleges for any additional residence requirements.

Independent Study

Independent studies are tutorials, independent readings, research, problem reports, and other individualized activities designed to meet the special needs of students within their major. Independent studies are offered only at the discretion of the department chair and college dean.

Inter-College Transfer

Students who wish to transfer to another college at Marshall must initiate an electronic request form located at www.marshall.edu/advising (http://www.marshall.edu/advising/). Any student who is currently eligible to attend Marshall University shall be eligible to transfer from one college to another within the institution so long as he or she meets the admission requirements for the college. Students on probation are eligible to transfer if all other admission criteria are met. Conditionally admitted students must meet specific requirements before becoming eligible to transfer to another college and declare a major.

Students declaring or changing an academic major and/or minor can declare or request the change prior to the beginning of the term or through the schedule adjustment period to be effective for that term. For a fall or spring semester, the schedule adjustment period is the first week of the semester. For Summer 1, the schedule adjustment period is the first three days of the term. For the remaining summer terms (Intersession, Summer 2, and Summer 3), the schedule adjustment period is the first day of class. Exact dates for each schedule adjustment period are provided in the official academic calendar available at https://www.marshall.edu/academic-calendar/. Any declaration or change after the schedule adjustment period becomes effective for the next term of enrollment. Untimely declaration or changing of majors and/or minors may affect financial aid eligibility.

Exception: Individuals who are returning to the university from one or more years of active military duty may enter the college of their choice, provided they meet that college's entrance requirements.

Internship

An internship is a supervised, off campus work/study arrangement with external agencies or institutions. Usually a student, with faculty approval, registers for an internship course for which he or she will receive credit. Often the students are paid, but not always. They generally serve as trainees under the supervision of an individual at the off-campus site. A Marshall faculty member usually serves as a coordinator and resource person. Students may expect regular site visits from a faculty member as well as on-campus training seminars, although internship experiences will vary across departments.

Laboratory Courses

Lab courses supplement classroom courses. They are organized activities involving the observation and verification of experiments and experimental techniques. Laboratory courses require two or three hours of lab per week for each semester hour of credit.

Major

A major is a program of study requiring at least 24 semester credits for completion. It is offered within one department or by a combination of departments. It is a field of study within an approved degree program, having its own curriculum. A degree program may have more than one major. All courses in the major must be taken for a grade except internships, practica, and approved study abroad courses.

Students declaring or changing an academic major and/or minor can declare or request the change prior to the beginning of the term or through the schedule adjustment period to be effective for that term. For a fall or spring semester, the schedule adjustment period is the first week of the semester. For Summer 1, the schedule adjustment period is the first three days of the term. For the remaining summer terms (Intersession, Summer 2, and Summer 3), the schedule adjustment period is the first day of class. Exact dates for each schedule adjustment period are provided in the official academic calendar available at https://www.marshall.edu/academic-calendar/. Any declaration or change after the schedule adjustment period becomes effective for the next term of enrollment. Untimely declaration or changing of majors and/or minors may affect financial aid eligibility.

Medical/Emergency Withdrawal Policy

A student may request and be considered for a medical or emergency withdrawal when extraordinary circumstances, such as a serious illness, injury, or catastrophic situation prevents the student from continuing classes. The policy covers physical and mental health, as well as life-changing difficulties

A medical/emergency withdrawal from the university will constitute a full withdrawal from all academic classes for the requested semester, with the exception of those classes whose completion dates occurred prior to the withdrawal. Refund of tuition and fees will be a separate determination, as will eligibility for future financial aid. These decisions will follow policies, guidelines and schedules set forth by the university and state and federal government.

If a student is currently enrolled, consideration should be given to withdrawing from those courses through the regular process prior to requesting a medical/emergency withdrawal.

A request for a medical/emergency withdrawal must be filed within six months of the end of the semester involved unless the student can provide rationale and documentation to show that it was not possible to make the request within this timeframe. Students may apply for a medical/emergency withdrawal by following the guidelines provided below. Application for a medical/emergency withdrawal does not guarantee that a withdrawal will be granted. All requests are evaluated on an individual basis.

All students requesting a medical/emergency withdrawal submit a complete packet of information to the Assistant Dean of Advocacy and Support in Student Affairs. The packet must include:

1. Completed Request for medical/emergency withdrawal in the form of a typed, signed letter, or e-mail from the student's Marshall e-mail account, explaining how the illness, condition, or situation affected their ability to maintain their status as a student at the university and why withdrawing from courses through the regular process is/was not an option for them. The request must also include the student's Marshall ID number and mailing address. Incomplete grades in courses may be arranged in compliance with university policy, and may be an option for students to consider instead of a medical/emergency withdrawal.
2. *For medical withdrawal:* Typed letter from the student's treating physician(s) recommending a withdrawal for medical reasons. The letter must state the specific rationale for the recommendation, including diagnosis or medical impressions; why the illness or condition prevented the student from maintaining their status as a student at the university; the effective date of the onset of the illness or condition; dates of treatment; and anticipated date of resolution, if applicable. The letter must be on official letterhead and must be signed by the service provider. The letter may be faxed from the treatment provider's fax machine. Medical information will be kept confidential.
   For withdrawal due to catastrophic event: Documentation sufficient to support the student's claim of involvement in a catastrophic situation. Said documentation will vary depending on the situation and should follow guidelines set forth by the Assistant Dean of Advocacy and Support.
   A request for a medical/emergency withdrawal without the supporting rationale will not be considered.
3. Complete Medical/Emergency Withdrawal Consultation Form, Financial Aid.
4. Complete Medical/Emergency withdrawal Consultation Form, Residence Services (if applicable)
5. Complete Medical/Emergency withdrawal Consultation Form, International Students (if applicable)
6. Other relevant supporting documentation as needed.

If the withdrawal is granted, the student will be unable to register for classes until he or she provides the Office of Student Affairs with a letter from their health care provider(s) (in the case of a medical withdrawal) releasing the student to return to the university and outlining the student's sufficient ability to manage coursework at Marshall. In the case of a catastrophic event, the student must provide a written statement that outlines the satisfactory resolution of the negative impact of the event.

The Office of Student Affairs will send a notice to the student regarding the outcome of the medical/emergency withdrawal request.

Approved by Faculty Senate, January 24, 2017

Minors

A minor is a program of study outside the major department requiring at least 12 semester credit hours for completion. All courses in the minor must be taken for a grade except for approved study abroad courses. With the exception of college-approved interdisciplinary minors, each academic department/division designates the specific

courses or range of courses required for each minor it offers. Please consult the department description in the catalog for requirements.

Students declaring or changing an academic major and/or minor can declare or request the change prior to the beginning of the term or through the schedule adjustment period to be effective for that term. For a fall or spring semester, the schedule adjustment period is the first week of the semester. For Summer 1, the schedule adjustment period is the first three days of the term. For the remaining summer terms (Intersession, Summer 2, and Summer 3), the schedule adjustment period is the first day of class. Exact dates for each schedule adjustment period are provided in the official academic calendar available at https://www.marshall.edu/academic-calendar/. Any declaration or change after the schedule adjustment period becomes effective for the next term of enrollment. Untimely declaration or changing of majors and/or minors may affect financial aid eligibility.

myMU

myMU is a campus portal for students using the Marshall University website. Using the portal, students can access a number of online services quickly, including registering for classes and checking schedules and grades. To use myMU, a student must know his or her MUNET username and password. Students on academic probation, or who have any other kind of registration hold, cannot register via myMU. For instructions on how to use myMU, visit www.marshall.edu/myMU (http://www.marshall.edu/myMU/).

Placement Examinations

Required prerequisites for math courses vary based on the individual course. The prerequisite for each course is noted in the Courses A-Z section in this catalog. Students who do not meet the prerequisites for their required math course may challenge their placement by taking an exam administered by University College in Smith Communications Building, Room 212. To schedule an exam and obtain information to prepare for the exam, please call 304-696-3169 or visit the University College website at www.marshall.edu/uc.

Plagiarism (see Academic Dishonesty)

Practicum

This is a closely supervised experience in a student's professional area. It may be on or off campus, or at a combination of the two. Ordinarily, there is extensive collaboration with a faculty supervisor. With faculty approval, a student registers for a practicum for which he or she will receive credit. Practicum experiences vary across departments.

President's List (see also Dean's List)

Students registered for 12 or more hours of courses for which they receive letter grades, and who at the end of a semester have Grade Point Averages of 4.00, are considered high honor students. The names of these students make up the "President's List" at Marshall University.

Readmission to the University

Former students not enrolled at Marshall University for one year or longer must apply for readmission. Readmission decisions are based on the student's academic standing at Marshall University. If eligible to return, former students will be readmitted to the college of last enrollment. Graduates of bachelor's degree programs will be readmitted to a post-baccalaureate major pending selection of a new major or degree program. The readmission application is available at the Admissions office or online at www.marshall.edu/admissions (http://www.marshall.edu/admissions/).

If a student previously attended Marshall and subsequently attended another institution, he/she must apply to Marshall as a transfer student.

Repeating Courses

Credits for a repeated course may not be used to fulfill the credit hour requirements for graduation. Exceptions: approved Special Topics courses, internships, practica, and other approved courses in departments such as Music. Students should check with their college dean for a list of all exemptions.

Residence

"In residence" means to be enrolled in Marshall University courses.

Semester Hour

Same as "Credit Hour."

Schedule Adjustment

Students can change their class schedules during the late registration and schedule adjustment period each term. The exact schedule adjustment period for any semester or term is published in the academic calendar for that semester or term. Schedule changes can be made on www.marshall.edu/myMU (http://www.marshall.edu/myMU/), or in person at the Registrar's Office. If a student wants to change sections of a course during the schedule adjustment period, he/she must drop the section in which he/she is currently enrolled and add the new section.

See section entitled "Dropping Courses" for information on dropping a class after the schedule adjustment period.

Semester Load

To make normal progress toward graduation, students should complete approximately 30 to 34 semester hours during a calendar year, which includes Fall, Spring and Summer terms. If students want to take 19 or more credit hours during Fall or Spring term, or 7 or more hours during a regular Summer term, they must obtain permission of the dean of their college.

Seminar

A seminar is a small class, usually offered at the junior/senior level, which may be involved in advanced study or original research.

Special Topics

Special Topics are experimental courses that can be offered twice by a department without formal committee approval. No more than 6 credits of special topics can be applied toward an associate degree; no more than 12 can be applied toward a baccalaureate degree.

Summer School

Marshall offers four summer sessions:

- Intersession: 4 weeks
- Summer 1: 12 weeks
- Summer 2: 5 weeks
- Summer 3: 5 weeks

Exact dates for each term are available on the registrar's website at www.marshall.edu/registrar.

Admission requirements for Summer School are the same as for the regular semester. Summer offerings, which include undergraduate and graduate courses, vary from year to year. Registration for Summer School usually begins in March.

Syllabus Policy

On the first day of class, instructors must provide each student a copy of the course requirements which includes these items:

- Course name and number.
- Instructor's name, office location, phone, e-mail address and office hours.
- List of all required texts.
- Attendance policy.
- Grading policy.
- Due dates for major projects and exams.
- Course description from most recent catalog
- Course student learning outcomes.
- Schedule of class sessions and assignments.
- Grid showing how each course student learning outcome will be practiced, and assessed, in the course.
- Link to Official University Policies located on the Academic Affairs website.
- Semester course meets, e.g., Spring 2012
- Time course meets, e.g. M/W/F 1:00-1:50 p.m.
- Course location.

Exceptions to this policy might include thesis, seminar, problem report, independent study, field work, internships, and medical clerkships. Colleges may develop more detailed requirements concerning the content of the syllabus.

Adopted by Marshall University Board of Governors, March 8, 2006.

Transcript

Official transcripts cost $10.00 per paper copy and $12.00 per electronic copy. The Office of the Registrar will process transcript requests within 1-2 business days of receipt. Processing time may be delayed at the end of a term due to posting grades and degrees. Students with outstanding financial, social or other obligations to the university forfeit rights to an official or unofficial transcript until the obligations are resolved.

Requests for official transcripts must be sent directly to the Office of the Registrar. Requests for official transcripts can be completed at www.marshall.edu/registrar (http://www.marshall.edu/registrar/transcripts/)/transcripts (http://www.marshall.edu/registrar/transcripts/), faxed, or made in person at the Office of the Registrar.

Students may obtain unofficial transcripts at no cost in the registrar's office or the college dean's office. Unofficial transcripts also may be accessed using the university's online self-service portal, myMU.

Transfer Credit

- **New Students:**
  When a student applies for admission to Marshall University, the Admissions office will determine the acceptability of credits earned at other institutions.
- **Enrolled Students:**
  After enrollment as a regular undergraduate at Marshall, if a student plans to take courses at another institution he/she must have **prior** approval from the dean of his/her college if the student wants those courses to count towards his/her degree requirements at Marshall. The student should pick up an off-campus form ("Approval of Courses to be Taken for Advanced Standing") from the Office of Admissions or his/her college office. After filling in the name of the visiting institution as well as the exact courses the student wishes to take there, the student takes the form to the Office of Admissions. The Admissions staff will convert the proposed coursework into equivalent Marshall courses and will then send the form to the student's college office for review. The associate dean will approve the application if the proposed courses are appropriate for the student's degree requirements. The form is then forwarded to the Registrar. The Registrar will send the student a copy of the completed form.
- Courses students take without prior approval may be rejected when they are evaluated for degree requirements.
- Before the credit earned at another institution can be transferred and recorded on the permanent academic record at Marshall, the student must have an official transcript forwarded from the other institution to the Marshall Office of Admissions.
- Coursework taken at another institution **transfers at the level at which it was taken**. This is something important to consider because undergraduate degree students must have a minimum number of hours of upper division credit to graduate. The exact number of required upper division hours is determined by the student's college.
- Grades earned for coursework taken at other institutions are computed into the *overall* GPA, (includes courses taken at MU and other institutions), but have no impact on the Marshall GPA (except grades earned under the *D/F* Repeat Rule).
- Courses taken through the Study Abroad office require a different form and process. Please see the Study Abroad section of this catalog.

Appeal of Denial of Transfer Credit, or Course Equivalency Determination, or Course Substitution

Students may appeal decisions on how transfer credits are evaluated.

The MU Undergraduate Office of Admissions determines transferability of credits and course equivalency at the time of admission. Once admitted, if a student believes the proper equivalent credit has not been awarded, the student should request, in writing, an explanation of credit denial from the Office of Undergraduate Admissions. This initial step must be taken within thirty (30) days of receipt of the

transfer credit evaluation or within ten (10) instructional days of the beginning of the student's matriculating term, whichever comes first. The Office of Undergraduate Admissions will review the request for technical errors and issue a written response within ten (10) days.

The college in which the student's degree program is housed determines course substitutions. After receiving the transfer credit evaluation from the Office of Admissions, the student should meet with an academic advisor in the student's degree program to determine the extent to which transferred credits and course equivalencies meet specific degree requirements. At this point, the advisor may make certain additional course substitutions per the policies of the college that houses the student's degree program.

If the student is not satisfied with the determinations in Step 2 regarding course substitutions, the student may initiate a formal appeal, in writing, to the dean of the academic college in which the student is admitted. The appeal must include applicable syllabi and other supporting documents and must be submitted within thirty (30) days of the beginning of the student's matriculating term.

If a course substitution is not granted by the dean, the student may appeal the decision to the West Virginia Higher Education Policy Commission, in writing, within ten (10) days of the issuance of the dean's decision. The Commission will review the entire case, including both course equivalencies and course substitutions, and issue a recommendation to the Provost and Senior Vice President for Academic Affairs at Marshall University, who shall then render the final decision.

Higher Education Policy Commission Policy on The Transferability of Undergraduate Credits and Grades

1. Undergraduate level credits and grades earned at any public institution under the Higher Education Policy Commission shall generally be transferable to any other such institution.
2. At least 64 and no more than 72 hours of credits and grades completed at community colleges or branch colleges in the West Virginia state system of higher education shall be transferable to any baccalaureate degree-granting institution in the state system.
3. All grades earned for college credit work within the state system shall be counted for purposes of graduation with honors, and transfer students from within the state system shall be treated the same for this purpose as generic students.
4. With the exception of those enrolling in specialized four year programs which have demonstrable and bona fide externally imposed requirements making such a goal impossible, students completing two year associate degrees at public institutions under the Higher Education Policy Commission shall generally, upon transfer to a baccalaureate level degree granting institution, have junior level status and be able to graduate with the same number of total credit hours as a non-transfer student at the same institution and in the same program. An exception may exist in any instance where the associate degree is a technical type designed for terminal career purposes and the general education component is substantially of a markedly different nature than that required for a student at the same two year institution enrolled in a college transfer associate degree program. Credit hours taken in general education toward associate degrees will count toward the total number of general education credit hours required at the baccalaureate degree granting institution.
5. There shall be developed and maintained specific detailed articulation agreements between appropriate institutions in the state system. Particularly community colleges, community college components, and branch colleges will indicate clearly in catalogs and other official materials which courses are not necessarily transferable for major programs or other specific purposes to those institutions where significant numbers of students traditionally transfer; any such course(s), however, will be transferred as elective credit up to the maximum herein required.
6. A statewide Ad Hoc Articulation Council appointed by the Chancellor consisting of two (including at least one faculty member) representatives from free standing components and branch colleges, two (including at least one faculty member) representatives from baccalaureate degree granting institutions, the Chairman of the Advisory Council of Students or his representative, and two representatives from the Higher Education Policy Commission staff shall be convened as a facilitating body in cases of disagreements between institutions over the transfer of credit. This Council will make a report and a recommendation to the Chancellor.
7. Consistent with provisions above, each baccalaureate degree granting institution may require transfer students to meet any of the following standards:
   a. An average of *C* on previous work attempted and the required Grade Point Average for admission to a particular program.
   b. The completion of 36 or more additional hours of credit in residence, regardless of the number of hours transferable.
   c. The completion of 16 of the last 32 hours before graduation in residence.

Any policies of this Board contrary to the foregoing are rescinded.

Adopted: West Virginia Board of Regents July 10, 1979
Board of Trustees policy effective July 1, 1989
Higher Education Policy Commission policy effective June 22, 2003

Undergraduate Students in Graduate Courses

A senior with an overall GPA of 2.75 or better can apply to take courses at the graduate level (500/600). A student can find the application online at the Graduate Studies website. The application requires the recommendation of the student's major department chairperson and the college dean. A completed application must be on file in the dean's office before the opening of the term of enrollment. Seniors can apply credit for graduate courses either to an undergraduate or a graduate degree at Marshall, but not to both, with the exception of the 3+2 Program in the College of Business. The grades a senior may earn in a graduate course taken for undergraduate credit are included in the computation of the student's undergraduate GPA.

Students should be aware that Marshall University has established a limit on the number of credit hours earned as an undergraduate that can be applied to a graduate degree. Other institutions may have similar limits.

UNI 100: Freshman First Class (1 Credit Hour; Graded)

UNI 100 Freshman First Class is made up of two parts:

1. the seminars and group sessions that are part of the Week of Welcome (WOW); and
2. additional weekly, 1-hour seminars for the first seven weeks of the semester.

Successful completion of this course earns one credit hour of elective credit. The course is graded. To earn the one hour of elective credit, attendance at WOW seminars, group sessions and seminars is required along with successful completion of course activities and assignments. Students are encouraged to take advantage of this opportunity to learn about Marshall University, college-level expectations and student success. (See also "Week of Welcome," which follows.)

Week of Welcome (WOW)

Week of Welcome is an opportunity for first-year students to familiarize themselves with the Huntington campus and learn what it means to be a student at Marshall University. Arriving on campus a few days early, freshmen participate in the President's Freshman Convocation and sessions with the dean, faculty and staff of their academic college along with large group sessions and small group seminars. Week of Welcome (WOW) is an integral part of Freshman First Class (UNI 100 Freshman First Class), an introduction to academic structures and expectations of college life. (See above.) Week of Welcome includes optional evening activities and social events for both residential and commuter students. Information about Week of Welcome is available at www.marshall.edu/wow (http://www.marshall.edu/wow/).

Core Curriculum (General Education)

The Core Curriculum is Marshall's general education program and applies to all majors. The Core Curriculum is designed to provide essential skills for students' varied life paths after college in an ever-evolving world.

Transfer students with 30-59 college credits must complete one CT course in Core I, all of Core II and the additional university requirements. Students transferring in 60 or more college credits are exempt from taking Core I, but must complete all of Core II and the additional university requirements. Core II may be fulfilled through a combination of transfer and Marshall credit hours.

Code	Title	Credit Hours
Core I		
First Year Seminar (100-level)		3
Discipline-specific courses with an emphasis on critical thinking (CT) and active learning (100- or 200-level) [1]		6
Core II (100- or 200-level) [2]		
Composition		6
Communication		3
Math		3
Physical or Natural Science		4
Social Science		3
Humanities		3
Fine Arts		3
Additional University Requirements		
Writing Intensive credit in any discipline at any level (Writing Intensive credits must be earned at Marshall University.)		6
Multicultural or International coursework in any discipline at any level		3
Capstone project in the major		
Total Credit Hours		**43**

1 Specific courses that fulfill the CT requirement may be found at www.marshall.edu/gened (https://www.marshall.edu/gened/). CT credits must be earned at Marshall University.

2 Specific courses that fulfill Core II may be found at www.marshall.edu/gened (https://www.marshall.edu/gened/).

Core I courses include First Year Seminar and two Critical Thinking (CT) courses. First Year Seminars are taught by trained, full-time faculty who help students develop intentional critical thinking skills integral to lifelong learning through inquiry, discussion, interaction, discovery, problem solving, writing, research, reflection and examination of complex multicultural/global ideas and themes.

CT courses provide students training in key skills specific to the discipline in which the course is offered. Each course focuses on at least five outcomes from Marshall University's Baccalaureate Degree Profile; Integrative Thinking and at least four others. CT credits must be earned at Marshall University. Marshall's Baccalaureate Degree Profile's Domains of Critical and Outcomes are:

Domains of Critical Thinking	Baccalaureate Learning Outcomes
Communication Fluency	Students will develop cohesive oral, written, and visual communications tailored to specific audiences.
Creative Thinking	Students will outline multiple divergent solutions to a problem, develop and explore risky or controversial ideas, and synthesize ideas/expertise to generate innovations.
Ethical and Civic Thinking	Students will determine the origins of core beliefs and ethical principles, evaluate the ethical basis of professional rules and standards of conduct, evaluate how academic theories and public policy inform one another to support civic well-being, and analyze complex ethical problems to address competing interests.
Information Literacy	Students will revise their search strategies and employ appropriate research tools, integrate relevant information from reliable sources, question and evaluate the complexity of the information environment, and use information in an ethical manner.

Inquiry-Based Thinking	Students will formulate focused questions and hypotheses, evaluate existing knowledge, collect and analyze data, and draw justifiable conclusions.
Integrative Thinking	Students will make connections and transfer skills and learning among varied disciplines, domains of thinking, experiences, and situations.
Intercultural Thinking	Students will evaluate generalizations about cultural groups, analyze how cultural beliefs might affect communication across cultures, evaluate how specific approaches to global issues will affect multiple cultural communities or political institutions, and untangle competing economic, religious, social, political, or geographical interests of cultural groups in conflict.
Metacognitive Thinking	Students will evaluate the effectiveness of their project plan or strategy to determine the degree of their improvement in knowledge and skills.
Quantitative Thinking	Students will analyze real-world problems quantitatively, formulate plausible estimates, assess the validity of visual representations of quantitative information, and differentiate valid from questionable statistical conclusions.

The skills gained in Core I courses will facilitate student learning in later coursework. These courses provide a direct linkage between the first classes a student takes, Core II courses, major-specific courses, and the senior capstone experience.

Core II courses provide necessary training in communication, writing, and math as well as deeper engagement with discipline-specific skills and knowledge. These courses develop student capacity as skilled and knowledgeable citizens.

Multicultural or International designated courses are dedicated to developing students' intercultural capacity. Students in multicultural courses learn to explain and examine elements of multiple cultures, past and present. Multicultural Studies courses encourage students to compare their own cultures with other cultures, enabling them to evaluate their own. At least half of the content in international courses is dedicated to current topics beyond the United States' borders. Students will identify and evaluate the fundamental dynamics that shape the current world; recognize and appraise major issues, concerns, and problems of a super-national or global scope in the current world; and/or recognize and assess diversity within, and interactions among, current world nations, peoples, and cultures, and how these help shape the current world. (See www.marshall.edu/gened (https://www.marshall.edu/gened/).)

Writing Intensive Courses engage students directly in the subject matter of the course through a variety of activities that focus on writing as a means of learning. In this way, writing is not added to content, but the content is entered and secured through writing. In other words, both teaching and learning are directed toward specific projects carefully created and monitored by the instructor so that students, by doing these projects, acquire the skills and knowledge of the content of the course as set forth in the course objectives. (See www.marshall.edu/wac (https://www.marshall.edu/wac/).)

Capstone courses are taken as part of a major in a student's senior year. Therein, students undertake projects that synthesize past learning and demonstrate their abilities.

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Four-Year Programs Offered at Marshall University

A *program* is a unified series of courses or learning experiences that lead to a degree.

A *major* is a program of study requiring at least 24 semester credits for completion. It is offered within one department or by a combination of departments. It is a field of study within an approved degree program, having its own curriculum. A degree program may have more than one major. All courses in the major must be taken for a grade except internships, practica, and approved foreign study courses.

An *Area of Emphasis* is a specific subject area of study which has limited course offerings within an approved degree program and major. Normally, a minimum of twelve (12) credit hours would be expected for an area of emphasis at the undergraduate level.

Degree Abbreviations

Abbreviation	Description
B.A.	Bachelor of Arts
B.B.A.	Bachelor of Business Administration
B.F.A	Bachelor of Fine Arts
B.S.	Bachelor of Science
B.S.B.M.E.	Bachelor of Science in Biomedical Engineering
B.S.E.	Bachelor of Science in Engineering
B.S.E.E.	Bachelor of Science in Electrical and Computer Engineering
B.S.M.E.	Bachelor of Science in Mechanical Engineering
B.S.W.	Bachelor of Social Work
R.B.A.	Regents Bachelor of Arts

College Abbreviations

Abbreviation	Description
CAM	College of Arts and Media
CECS	College of Engineering and Computer Sciences
COEPD	College of Education and Professional Development
COLA	College of Liberal Arts
COHP	College of Health Professions
COS	College of Science
COB	College of Business

College of Arts and Media

Contacts: Dr. Wendell Dobbs, Interim Dean; Dr. David Castleberry, Associate Dean
Website: https://www.marshall.edu/cam/

cam@marshall.edu

The College of Arts and Media at Marshall University was created on July 1, 2013. The college includes the School of Art and Design; the W. Page Pitt School of Journalism and Mass Communications; the School of Music; the School of Theatre; the Marshall Artists Series; the student newspaper, *The Parthenon*; the student radio station, WMUL-FM; the student produced television news broadcast, MU Report; Basketball Friday Night in West Virginia; the Marching Thunder; MU jazz festivals; MU Theatre productions; and the Birke and Carroll Fine Art Galleries.

The College of Arts and Media offices are in Smith Hall 158. The School of Art and Design offices are in the Visual Arts Center 601; the W. Page Pitt School of Journalism and Mass Communications offices are in Communications Building 100; the School of Music offices are in Smith Music Hall 154, and the School of Theatre offices are in the Joan C. Edwards Performing Arts Center 230. Art and design courses are taught in the Visual Arts Center and the Art Warehouse. Journalism and mass communications courses are taught in Smith Hall and the Communications Building. Music courses are taught in Smith Music Hall, the Jomie Jazz Center, and the Henderson Center band facility. Theatre courses are taught in the Joan C. Edwards Performing Arts Center.

Mission of the College

The College of Arts and Media is dedicated to the discovery, application, transmission, and advancement of knowledge in arts and in media. Through its rich and varied public programs, our college informs and enhances the lives of students and the wider community.

Our students receive professional, discipline-based training within the context of broad learning. They become critical thinkers, creative problem solvers, and collaborators. They are prepared for productive lives as global citizens and 21st century leaders through their professions and in their communities.

The specific goals of the College of Arts and Media are:

1. To educate and train those seeking professions in arts and in media;
2. To support the university's general academic curricula by offering courses that stimulate an understanding of and response to the verbal, aural, and visual nature of our programs;
3. To offer diverse opportunities through exhibitions, informational media, performances, presentations, and service for the enrichment of the campus and other publics; and
4. To provide leadership in and advocacy for arts and media.

Programs of the College

The curricula of the College of Arts and Media are designed to certify that, upon graduation, students have completed a program that leads to development of the ability:

1. To recognize, investigate, and solve problems through critical thinking, analysis, and the application of appropriate research and creative strategies;
2. To integrate an array of skills and knowledge in preparation for a professional career;
3. To demonstrate an awareness of the value of the arts and media in society and in the global community in preparation for becoming citizen-artists.

Special Opportunities for All Students

Center for Wellness in the Arts

In August of 2014, the College of Arts and Media and the College of Health Professions launched an exciting venture on behalf of students that has become the Marshall University Center for Wellness in the Arts. The center is a place where performing and visual artists can be evaluated by licensed athletic trainers, skilled vocal and hearing clinicians, dietitians, exercise physiologists and performance anxiety specialists who have the proper knowledge and equipment to assess discipline-specific health risks and offer wellness strategies. The CWA contributes to the academic and professional development of students and faculty through education, treatment and research.

The CWA draws upon university resources in behavioral and physical health, exercise science, communication disorders, and speech and hearing, to provide students with a groundbreaking system of support and learning. Rejecting the premise that a certain amount of pain is part of the artist's process, the CWA promotes a culture in which pain is a problem to be treated, and wellness an essential component of successful careers in the arts. For further information, please consult the Center for Wellness in the Arts website at www.marshall.edu/cwa (http://www.marshall.edu/cwa/).

Exhibitions

The Birke Art Gallery on the Marshall University campus and the Visual Arts Center Gallery in downtown Huntington feature student, faculty, and guest artist exhibitions. These galleries are open year-round and are free to students and the public.

Non-major Participation in Arts and Media Courses and Minors

Students wishing to develop or advance their artistic, journalistic, mass communications, musical, or theatrical skills are welcome to enroll in courses in the college and to join the various student organizations. Students who desire a minor in the arts or journalism and mass communications should refer to the school listings for the sequence of courses in each program.

Performances and Productions

All university students are encouraged to participate in the many music ensembles and theatrical productions offered by the School of Music and the School of Theatre.

Professional and Student Organizations

The College of Arts and Media houses a number of professional and student organizations that enhance and explore various aspects of its majors and areas of specialization. Please consult with the school director for more information.

Student Media

The student newspaper, *The Parthenon*, is published Monday through Friday online and in print Tuesday and Friday during the fall and spring semesters and weekly from June to August. The student radio station, WMUL-FM, 881. FM, is on the air 24 hours daily throughout the year. All university students are encouraged to volunteer at WMUL-FM. MU Report is a student-produced, 15-minute bi-weekly television newscast seen throughout West Virginia on public television. Basketball Friday Night in West Virginia is a three-hour talk show about the state's high school basketball games. Seven Arrow Creative is a student-run

advertising and public relations agency serving the Huntington campus and communities.

Community Engagement

The College of Arts and Media enriches the Huntington campus and regional community with many performances, exhibitions, broadcasts, publications, lectures, and special presentations.

As the second oldest town and gown organization in the U.S., the Marshall Artists Series presents a variety of professional arts programs for students, on and off the Huntington campus, that enhance one's global experience outside of the classroom. Programming includes Broadway, music, authors, comedy, opera, dance and international films - designed to expose, enrich, educate and entertain students, most often at no charge. For information, call 304-696-3326 or visit www.marshallartistsseries.org (http://www.marshallartistsseries.org).

Exhibitions in multiple exhibition venues presented by the School of Art and Design are open to all students. *The Parthenon*, MU Report, WMUL, Seven Arrow Creative, and Basketball Friday Night in WV, a radio/television/live web simulcast, in the School of Journalism and Mass Communications inform the community, debate topical issues, broadcast documentaries, and aid local businesses. Marshall University Music presents many recitals and concerts by its faculty, students, and ensembles, in addition to programs featuring guest artists. Throughout the academic year and during the summer sessions, the Marshall University Theatre provides many major dramatic productions. Students are cordially welcomed to all events and are urged to explore the excitement, enrichment, and entertainment offered by the College of Arts and Media.

Departments

- Interdisciplinary Programs (p. 96)
- School of Art and Design (p. 100)
- School of Journalism and Mass Communications (p. 127)
- School of Music (p. 146)
- School of Theatre (p. 173)

Academic Policies

Advising

Each student will be assigned a faculty advisor in the student's area of interest, who will provide academic advice and guidance in the registration process. Students majoring in the arts are subject to mandatory advising every semester of enrollment. Students in journalism and mass communications are subject to mandatory advising until junior status is obtained. Only after a student has met with the academic advisor for approval of the course schedule will the advising hold be lifted, thus enabling the student to register for classes. A student who has not been assigned an advisor or who has questions about the assignment of advisor should contact the dean of the College of Arts and Media or the school director.

Catalog of Record

The College of Arts and Media adheres strictly to the University Academic Catalog of Record Policy found in the "Academic Information" section of this catalog. This policy affects all undergraduate students in the College of Arts and Media. You may also consult the catalog website: www.marshall.edu/catalog/ (http://www.marshall.edu/catalog/).

Change of Major

Students who change majors within the College of Arts and Media will continue to operate under the catalog in effect when they entered. Students transferring from other units of the university must meet the requirements of the catalog in effect at the time of the change in major.

Degree Progress Audit

During the semester students are enrolled for their 80th hour, they are required to have a check of their progress toward graduation. The check is to be initiated in the college office. Failure to do so will result in a hold on registration that will be removed after the check is completed.

Probation and Academic Dismissal

The College of Arts and Media adheres strictly to the University Academic Probation and Suspension Policy found in the "Academic Information" section of this catalog. This policy affects all undergraduate students in the College of Arts and Media regardless of their catalog year. You may also consult this catalog website: www.marshall.edu/catalog (http://www.marshall.edu/catalog/).

Degree Requirements

Degree Programs

The College of Arts and Media offers undergraduate programs leading to the Bachelor of Arts with majors in music, theatre, video production, or visual arts, the Bachelor of Arts (B.A.) degree with majors in advertising/public relations, journalism and media production, and the Bachelor of Fine Arts Degree (B.F.A.) with majors in music, theatre, and the visual arts.

- the Bachelor of Arts with majors in allied arts, music, theatre, video production, or visual arts,
- the Bachelor of Arts (B.A.) degree with majors in advertising/public relations, journalism and media production, and
- the Bachelor of Fine Arts Degree (B.F.A.) with majors in music, theatre, and the visual arts.

Degrees in Arts and Media Education

Programs leading to the Bachelor of Arts degree in education toward certification in art or music education for teachers in West Virginia public schools are listed under the College of Education in this catalog. Graduates in art or music education qualify for certification to teach in grades PreK to Adult.

Graduate Degrees in Arts and Media

Graduate programs leading to the Master of Arts (M.A.) degree in music and the Master of Arts degree in Journalism (M.A.J.) may be found in the *Graduate Catalog*.

Arts and Media Majors

Bachelor of Arts

The Bachelor of Arts degree offered by the College of Arts and Media places an emphasis on the arts and their relationships to outside disciplines. This degree focuses on a breadth in content knowledge with a liberal-arts orientation that features exploration in non-art fields.

Students enrolled in the B.A. degree program will select one of four majors:

- Art
- Music
- Theatre
- Video Production

Within most majors, students select an area of emphasis that aligns most closely with their chosen career path.

Students should contact the dean or the school director for information pertaining to each of the majors and areas of emphasis and to determine special admission requirements for each potential sequence. In unusual circumstances, students may enter the B.A. program as undecided majors upon the recommendation of the dean or school director.

Curricular Structure

The Bachelor of Arts degree in the College of Arts and Media includes the following components:

Code	Title	Credit Hours
Core I requirements		9 credit hours
Core II requirements		25 credit hours
Major Area Requirements		48-51 credit hours
Minor		15-18 credit hours
Additional Electives		17-29 credit hours
Total Requirements for Graduation		**120 credit hours**

Bachelor of Arts in Journalism and Mass Communications

Through the W. Page Pitt School of Journalism and Mass Communications, the College of Arts and Media offers a Bachelor of Arts degree with seven emphases housed in three majors:

- advertising/public relations, with emphases in advertising and public relations;
- journalism, with emphases in broadcast, multimedia, and sports; and
- media production, with emphases in radio/television production and management and in video production.

Professionally oriented courses and laboratory experiences are combined with extensive liberal arts preparation to provide students with the background necessary for employment in mass communications. The program is accredited by the Accrediting Council on Education in Journalism and Mass Communications.

Curricular Structure

The Bachelor of Arts degree in the School of Journalism and Mass Communications includes the following components:

Code	Title	Credit Hours
Core I requirements		9 credit hours
Core II requirements		25 credit hours
JMC Cognizance area		24 credit hours
JMC Core		21 credit hours
Major requirements		27 credit hours
Required Non-JMC and elective courses		14 credit hours
Total Requirements for Graduation		**120 credit hours**

Bachelor of Fine Arts in Music, Theatre or Visual Arts

Through the School of Art and Design, the School of Music, and the School of Theatre, the College of Arts and Media offers the Bachelor of Fine Arts (B.F.A.). This is a professional degree designed to prepare students to:

1. enter careers as professionals in their chosen artistic disciplines;
2. pursue professional studies at the graduate level;
3. apply principles learned through the fine arts to the myriad life choices all graduates make, regardless of vocation.

Students enrolled in the B.F.A. degree program will select one of three majors: music, theatre, or visual arts. Within each major, students are further required to select a major area of emphasis, allowing specialization. Majors and areas of emphasis are as follows:

- **Music Major:** areas of emphasis
  - Jazz Studies
  - Multidisciplinary Studies
  - Performance
  - Theory and Composition
- **Musical Theatre Major**
- **Theatre Major:** areas of emphasis
  - Performance
  - Production
- **Visual Arts Major:** areas of emphasis

- Ceramics
- Fibers
- Graphic Design
- Painting
- Photography
- Printmaking
- Sculpture

Curricular Structure

The Bachelor of Fine Arts degree program, consistent with professional degree programs in the fine arts in United States higher education, includes the following components:

Code	Title	Credit Hours
Core I requirements		9 credit hours
Core II requirements		25 credit hours
Electives outside of the Major		13 credit hours
Majors and Area of Emphasis requirements		73 credit hours
Total Requirements for Graduation		**120 credit hours**

University Core Curriculum

Code	Title	Credit Hours
Core I: (9 hours)		
First Year Seminar (100-level)		3
Discipline-specific courses with an emphasis on critical thinking (CT) and active learning (100- or 200-level) [1]		6
Core II: 25 hours (100- or 200-level) [2]		
Composition		6
Communication		3
Math		3
Physical or Natural Science		4
Social Science		3
Humanities		3
Fine Arts		3
Additional University Requirements		
Writing Intensive credit in any discipline at any level		6
Multicultural or International coursework in any discipline at any level		3
Capstone project in the major		
Total Credit Hours		**43**

[1] Specific courses that fulfill the CT requirement may be found at www.marshall.edu/gened (http://www.marshall.edu/gened/).

[2] Specific courses that fulfill Core II may be found at www.marshall.edu/gened (http://www.marshall.edu/gened/).

For more information, consult the general education website: www.marshall.edu/gened (http://www.marshall.edu/gened/).

Additional Degree Requirements

For specific degree requirements, see the appropriate major.

Faculty

School of Art and Design

Dr. Mark Zanter, Interim Director
www.marshall.edu/art (http://www.marshall.edu/art/)

Professor

Barnes-Marsano, Bartolovic, Hagarty, Morton, Reed

Associate Professor

Cook, Kaufmann, Kozlowski, Stark

Assistant Professor

Danford, McCullough, McDermott

W. Page Pitt School of Journalism and Mass Communications

Sandra York, Interim Director
www.marshall.edu/jmc (http://www.marshall.edu/jmc/)

Professor

Bailey, Hapney, Hollis, Morris, Rabe, Swindell

Associate Professor

Goodman, Ingersoll

Assistant Professor

Bumgarner, York

School of Music

Dr. Martin Saunders, Director
www.marshall.edu/music (http://www.marshall.edu/music/)

Professor

Alves, A. Bingham, E. Bingham, Castleberry, Dikener, Dobbs, Hall, Lawson, Saunders, Smith, M. Stroeher, V. Stroeher, Tusing, Vauth, Zanter

Associate Professor

Botes, Dalton

Assistant Professor

Lee, Nannen, Waugh, Wolfe

School of Theatre

Mr. Lang Reynolds, Director
www.marshall.edu/theatre (http://www.marshall.edu/theatre/)

Professor

Colclough, Murphy, Reynolds

Assistant Professor

Trees

Interdisciplinary Programs

Programs

- Musical Theatre, B.F.A. (p. 96)
- Video Production, B.A. (p. 98)

Musical Theatre, B.F.A.

Bachelor of Fine Arts with a Major in Musical Theatre

The Bachelor of Fine Arts degree with a musical theatre major is designed to prepare students for entry into professional musical theatre careers or graduate school.

ENTRANCE AND PROGRAM REQUIREMENTS

Students desiring entry into the B.F.A. degree in musical theatre must be formally admitted to the program. This admittance is based upon an audition that includes singing, acting, and dancing. Students may contact the School of Music or the School of Theatre and Dance for more information about audition requirements and dates.

Students in the musical theatre major must also satisfy the following program requirements:

1. Al coursework in the major must be completed with a grade of *C* or above. A course with a grade of *D* or *F* must be repeated with at least a grade of *C* to count for graduation or to be used as a prerequisite for another required course.
2. A total of 120 credit hours is required for the B.F.A. degree in musical theatre. These credit hours must include 34 hours in the university core curriculum, 73 hours of major requirements (listed below), and 13 hours of non-major elective courses (courses not in the music, theatre, or dance areas). It is recommended the one or more of the following courses be selected toward fulfilling the 13 non-major electives: DTS 202, ESS 220, HS 201.
3. Forty (40) credit hours must be earned in courses numbered 300-499.
4. Upon completion of the fourth semester of MUS 196, Applied Voice, students must pass a sophomore hearing before enrolling in MUS 396.

Major Requirements in Musical Theatre

Major requirements.....73

DAN 210, 230, 305, 316

MUS 101, 109, 310, 496

MUS 196 for four semesters

MUS 396 for two semesters

MUS 470 for two semesters

*Four semesters of ensembles selected from MUS 204, 207, 404, 407

*Two semesters of ensembles selected from MUS 204, 205, 206, 207, 404, 405, 406, 407

THE 220, 222, 230, 320, 323, 423, 441, 490

THE 390 for two semesters

One course selected from THE 240, 245, 250

MUS/THE/DAN electives (5 credit hours)

*Four ensemble credits must be at the 200 level, and two credits must be at the 400 level. All ensemble courses may be repeated for credit.

- General Education Course

- Milestone course: a key success marker for your major. See your advisor to discuss the importance of this course in your plan of study.

Major

The Core Curriculum is designed to foster critical thinking skills and introduce students to basic domains of thinking that transcend disciplines. The Core applies to all majors. Information on specific classes in the Core can be found at https://www.marshall.edu/gened/.

Code	Title	Credit Hours
Core Curriculum		
Core 1: Critical Thinking		
FYS 100	First Yr Sem Critical Thinking	3
MTH 121	Concepts and Applications (CT)	3
Critical Thinking		3
Core 2		
ENG 101	Beginning Composition	3
ENG 201	Advanced Composition	3
CMM 103	Fund Speech-Communication	3
MTH 121	Concepts and Applications (CT)	3
Core II Physical/Natural Science		4
Core II Humanities		3
Core II Social Science		3
Core II Fine Arts		3
Additional University Requirements		
Writing Intensive		3
Writing Intensive		3
Multicultural/International		3
MUS 496	Musical Theatre Capstone	1
Major Requirements		
MUS 101	Basic Musicianship	3
MUS 109	Mus Theatre Musicianship Lab	1
MUS 310	Perf Arts Entrepreneurship	1
MUS 470	Musical Prods Practicum	1
MUS 470	Musical Prods Practicum	1
MUS 496	Musical Theatre Capstone	1
Vocal Music Ensemble 200-Level		1
Vocal Music Ensemble 200-Level		1
Vocal Music Ensemble 200-Level		1
Vocal Music Ensemble 200-Level		1

Vocal Music Ensemble 400-Level		1
Vocal Music Ensemble 400-Level		1
MUS 196	Voice	2
MUS 196	Voice	2
MUS 196	Voice	1
MUS 196	Voice	1
MUS 396	Voice	2
MUS 396	Voice	2
THE 220	Stage Movement I: Foundations	3
THE 222	Acting I: Foundations	3
THE 230	Auditioning Techniques	3
THE 320	Acting II: Scene Study	3
THE 323	Stage Mvmt II: Phys Approaches	3
THE 390	Music Theatre Workshop II	3
THE 390	Music Theatre Workshop II	3
THE 423	Acting Styles	3
THE 441	Theatre Hist Since 1660	3
THE 490	Professional Theatre Residency	4
Select one of the following Theatre Tech:		4
THE 240	Stage Lighting I	
THE 245	Intro to Technical Theatre	
THE 250	Introduction to Costuming	
DAN 210	Tap Dance	2
DAN 230	Ballet Technique	2
DAN 305	Dance for Musical Theatre	3
DAN 316	Modern Jazz Dance	2
Major Elective		2
Major Elective		3
BFA Elective		3
BFA Elective		3
BFA Elective		4
BFA Elective		3

Major Information

- All students desiring entry into the B.F.A. degree in musical theatre must be formally admitted to the program. This admittance is based upon an audition in acting, singing, and dance/movement. Students should contact the School of Music or the School of Theatre and Dance for more information and to arrange for an audition.
- All coursework in the musical theatre major must be completed with a grade of C or above. A course with a grade of D or F must be repeated with at least a grade of C to count for graduation or to be used as a prerequisite for another required course.
- Candidates for the B.F.A. must complete 73 credit hours in the major, 34 credit hours in the core curriculum, and 13 credit hours in non-major elective courses. The non-major elective courses may not include courses in dance, music, or theatre.
- Forty (40) credit hours must be earned in courses numbered 300-499.
- No course in the major requirements for graduation may be taken Credit/ Non/Credit unless the course is so specified.
- Upon completion of the fourth semester of MUS 196 Voice, students must pass a sophomore hearing before enrolling in MUS 396 Voice.

- General Education Course

- Milestone course: a key success marker for your major. See your advisor to discuss the importance of this course in your plan of study.

Four Year Plan

This major prepares students for careers or graduate study in musical theatre performance. Students with this degree have careers as performers or support staff in a wide variety of musical theatre settings.

Course	Title	Credit Hours
First Year		
First Semester		
MUS 101	Basic Musicianship	3
MUS 196	Voice	1
Vocal Music Ensemble 200-Level		1
THE 222	Acting I: Foundations	3
FYS 100	First Yr Sem Critical Thinking	3
MTH 121	Concepts and Applications (CT)	3
UNI 100	Freshman First Class	1
	Credit Hours	**15**
Second Semester		
DAN 230	Ballet Technique	2
MUS 109	Mus Theatre Musicianship Lab	1
MUS 196	Voice	1
Vocal Music Ensemble 200-Level		1
THE 220	Stage Movement I: Foundations	3
THE 390	Music Theatre Workshop II (or MUS 470 if necessary)	3
ENG 101	Beginning Composition	3
	Credit Hours	**14**
Second Year		
First Semester		
DAN 210	Tap Dance	2
MUS 196	Voice	2
Vocal Music Ensemble 200-Level		1
THE 320	Acting II: Scene Study	3
ENG 201	Advanced Composition	3
Core II Physical/Natural Science		4
	Credit Hours	**15**
Second Semester		
DAN 316	Modern Jazz Dance	2
MUS 196	Voice	2
Vocal Music Ensemble 200-Level		1
THE 390	Music Theatre Workshop II (or MUS 470 if necessary)	3
THE 423	Acting Styles	3
Writing Intensive		3

Major Elective		2
	Credit Hours	**16**
Third Year		
First Semester		
DAN 305	Dance for Musical Theatre	3
MUS 396	Voice	2
Vocal Music Ensemble 400-Level		1
THE 323	Stage Mvmt II: Phys Approaches	3
CMM 103	Fund Speech-Communication	3
Core I Critical Thinking		3
	Credit Hours	**15**
Second Semester		
MUS 310	Perf Arts Entrepreneurship	1
MUS 396	Voice	2
Vocal Music Ensemble 400-Level		1
MUS 470	Musical Prods Practicum (or THE 390 if necessary)	1
THE 490	Professional Theatre Residency	4
Core II Fine Arts		3
BFA Elective		4
	Credit Hours	**16**
Fourth Year		
First Semester		
THE 230	Auditioning Techniques	3
THE 441	Theatre Hist Since 1660	3
Select one of the following Theatre Tech:		4
THE 240	Stage Lighting I	
THE 245	Intro to Technical Theatre	
THE 250	Introduction to Costuming	
Core II Social Science (M/I)		3
BFA Elective		3
	Credit Hours	**16**
Second Semester		
MUS 470	Musical Prods Practicum (or THE 390 if necessary)	1
MUS 496	Musical Theatre Capstone	1
Core II Humanities (WI)		3
Major Elective		3
BFA Elective		3
BFA Elective		3
	Credit Hours	**14**
	Total Credit Hours	**121**

Video Production, B.A.

Admission and Performance Standards

Prospective students who wish to apply for admission to the Bachelor of Arts program must meet the general admission requirements for Marshall University.

Students enrolled in the Bachelor of Arts programs are required to complete all coursework in the respective majors with a minimum grade of *C*. Course grades of *D* and *F* are not counted toward graduation requirements and must be replaced with a grade of *C* or better before graduation or before using that course as a prerequisite for another required course.

Candidates for graduation must have a Grade Point Average of 2.0 or higher in all work attempted at Marshall University.

Forty (40) credit hours must be earned in courses number 300-400.

No courses in the college and major requirements for graduation in the College of Arts and Media may be taken Credit/Non-Credit unless the course is otherwise specified.

Students pursuing the B.A. will complete a capstone project appropriate to their emphasis area and outside field. Projects must be approved the student's capstone advisor.

- General Education Course

- Milestone course: a key success marker for your major. See your advisor to discuss the importance of this course in your plan of study.

Major

The Core Curriculum is designed to foster critical thinking skills and introduce students to basic domains of thinking that transcend disciplines. The Core applies to all majors. Information on specific classes in the Core can be found at https://www.marshall.edu/gened/.

Code	Title	Credit Hours
Core Curriculum		
Core 1: Critical Thinking		
FYS 100	First Yr Sem Critical Thinking	3
Critical Thinking		3
Critical Thinking		3
Core 2		
ENG 101	Beginning Composition	3
ENG 201	Advanced Composition	3
CMM 103	Fund Speech-Communication	3
Core II Mathematics		3
Core II Phys./Natural Science		4
Core II Humanities		3
Core II Social Science		3
Core II Fine Arts		3
Additional University Requirements		
Writing Intensive		3
Writing Intensive		3
Multicultural/International		3
AM 499	Senior Capstone Project	3
Major Requirements		
ART 101	Visual Culture and Research	3
ART 219	Foundations: Frame/Time	3
ART 325	Image Visualization: Digital	3
ART 423	Photographic Lighting	3
ART 453	Motion Design I	3
ART 454	Motion Design II	3

ART 489	Graphic Design Portfolio	2
JMC 101	Media Literacy	3
JMC 380	AD-PR and Continuity Writing	3
JMC 332	Intro to Video Production	3
JMC 432	AD-PR Video Production	3
JMC 475	Documentary Journalism	3
MUS 219	Digital Recording Techniques	2
Select one of the following:		3
THE 240	Stage Lighting I	
THE 245	Intro to Technical Theatre	
THE 250	Introduction to Costuming	
THE 437	Directing I	3
AM 299	Sophomore Review	0
AM 490	Video Internship	1
AM 498	Senior Pre-Capstone	3
AM 499	Senior Capstone Project	3
Minor Requirement		3
Minor Requirement		3
Minor Requirement		3
Minor Requirement		3
Minor Requirement		3
Minor Requirement		3
Free Elective		3
Free Elective		3
Free Elective		3
Free Elective		3
Free Elective		3

Major Information

- Prospective students who wish to apply for admission to the Bachelor of Arts program must meet the general admission requirements for Marshall University.
- Students enrolled in the Bachelor of Arts programs are required to complete all coursework in the respective majors with a minimum grade of C. Course grades of D and F are not counted toward graduation requirements and must be replaced with a grade of C or better before graduation or before using that course as a prerequisite for another required course.
- Candidates for graduation must have a Grade Point Average of 2.0 or higher in all work attempted at Marshall University.
- Forty (40) credit hours must be earned in courses number 300-400.
- No courses in the college and major requirements for graduation in the College of Arts and Media may be taken Credit/ Non-Credit unless the course is otherwise specified.
- Students pursuing the B.A. will complete a capstone project appropriate to their emphasis area and outside field. Projects must be approved the student's capstone advisor.

- General Education Course

- Milestone course: a key success marker for your major. See your advisor to discuss the importance of this course in your plan of study.

Four Year Plan

The Bachelor of Arts in the Arts with a video production major combines course work from art and design, journalism, music and theatre. Camera skills, lighting, editing, acting, directing, storytelling and writing, music and sound effects, motion graphics and effects, and producing are all critical elements in this program. Students gain the skills and techniques necessary for video creation and are prepared for careers in the video industry

Course	Title	Credit Hours
First Year		
First Semester		
FYS 100	First Yr Sem Critical Thinking	3
ENG 101	Beginning Composition	3
Core II Fine Arts		3
JMC 101	Media Literacy	3
ART 219	Foundations: Frame/Time	3
UNI 100	Freshman First Class	1
	Credit Hours	**16**
Second Semester		
Core II Mathematics		3
CMM 103	Fund Speech-Communication	3
MUS 219	Digital Recording Techniques	2
ART 101	Visual Culture and Research	3
Select one of the following:		4
THE 240	Stage Lighting I	
THE 245	Intro to Technical Theatre	
THE 250	Introduction to Costuming	
	Credit Hours	**15**
Second Year		
First Semester		
Core I Critical Thinking		3
ENG 201	Advanced Composition	3
Core II Social Science (M/I)		3
JMC 380	AD-PR and Continuity Writing	3
ART 423	Photographic Lighting	3
JMC 332	Intro to Video Production	3
	Credit Hours	**18**
Second Semester		
Writing Intensive		3
Minor Requirement		3
Core I Critical Thinking		3
MUS 219	Digital Recording Techniques	2
ART 325	Image Visualization: Digital	3
AM 299	Sophomore Review	0
	Credit Hours	**14**
Third Year		
First Semester		
Core II Physical/Natural Science		4
Minor Requirement		3
Writing Intensive		3
ART 453	Motion Design I	3
JMC 432	AD-PR Video Production	3
	Credit Hours	**16**

Second Semester		
THE 437	Directing I	3
Minor Requirement		3
Minor Requirement		3
ART 454	Motion Design II	3
JMC 475	Documentary Journalism	3
	Credit Hours	**15**
Fourth Year		
First Semester		
Minor Requirement		3
Free Elective		3
ART 489	Graphic Design Portfolio	2
ART 498	Senior Capstone Exhibition BFA	3
Free Elective		3
AM 490	Video Internship	1
	Credit Hours	**15**
Second Semester		
Minor Requirement		3
Free Elective		3
Free Elective		3
AM 499	Senior Capstone Project	3
	Credit Hours	**12**
	Total Credit Hours	**121**

School of Art and Design

The mission of the Marshall University, School of Art and Design is to prepare students for careers as art and design practitioners, scholars, educators, and in arts-affiliated fields. Equipped with profound skills, sensitivity, and sensibility, School of Art and Design graduates are poised to become difference-makers in their artistic disciplines and on schools and communities, as adept and adaptive arts professionals, entrepreneurs, and educators, as well as civic-minded leaders and citizens.

We encourage art and design students to engage with the wider world through their practice as artists and designers. This relationship is fostered through focused disciplinary study in conjunction with a broad interdisciplinary approach toward research. We value the role of both traditional methodologies of artmaking, as well as an engagement with evolving contemporary technologies within the School of Art & Design. This multifaceted approach toward studying art puts a focus on innovative art and design while strengthening our community, region and culture.

The School of Art and Design offers classes out of two distinct facilities:

- The Visual Arts Center (VAC), located at 927 3rd Ave. in the heart of downtown Huntington.
- The Art Warehouse (AW), located at 201, 21st St in close proximity to the Joan C. Edwards Stadium.

The school offers a Bachelor of Fine Arts degree with 8 areas of emphasis, including:

- Ceramics
- Fibers
- Graphic Design
- Painting
- Photography
- Printmaking
- Sculpture
- Studio Art

The school offers a Bachelor of Arts degree with two areas of emphasis:

- Art History
- Visual Art

The School of Art and Design also supports a Bachelor of Arts in Education, housed in the College of Education and Professional Development.

The School of Art and Design also supports the College of Arts and Media video production program students through numerous courses and studios housed in the Visual Arts Center.

Professionally oriented studio art courses and lecture-based courses are combined with the greater university's liberal arts and other general education courses, all of which are designed to prepare students for the diverse fields within art and design.

Of the 120 credit hours required for the bachelor's degree, students must have a minimum of 73 art and design hours, 13 electives outside of the major and 34 general education hours, and they must meet the liberal arts and sciences requirements of the university.

Art and Design majors must also satisfy the following requirements:

1. A student who receives a *D* or *F* in an art and design course counted toward graduation must repeat it and earn at least a *C* before graduation or before using that course as a prerequisite for another required art and design course.
2. At least 40 hours of credit toward the B.A. or B.F.A. degree must be in 300-499 upper level courses. Courses transferred from two-year or community colleges cannot always be used to satisfy this requirement. Courses taken at four-year accredited colleges transfer at the level at which they were taken.
3. Graduating B.F.A. students are required to mount a final thesis exhibition in the gallery space in the Visual Arts Center. This exhibition course is optional for B.A. students.

Minors

A minor in the School of Art and Design consists of a minimum of 15 credit hours. A minor may be completed either in art history or in studio art.

Programs

- Art History, Minor (p. 108)
- Art, B.A. (p. 109)
- Art, B.F.A. (http://catalog.marshall.edu/undergraduate/programs-az/arts-media/art-design/art-bfa/)
- Studio Art, Minor (p. 113)
- Visual Arts, B.F.A. (p. 113)

Courses

- General Education Course

ART 101 Visual Culture and Research **3 Credit hours**
Introduction to the functions of art applications of media, elements and principles of design, artists, and aesthetics. (Required for Art Majors) Introduction to the functions of art applications of media, elements and principles of design, artists, and aesthetics. (Required for Art Majors)
Grade Mode: Normal Grading Mode

ART 112 Intro To Visual Art **3 Credit hours**
An introduction to the methods and principles of the visual arts. Students will consider the work of major artists in thematic contexts. (For non-art majors only.)
Attributes: Core II Fine Arts
Grade Mode: Normal Grading Mode

ART 112H Intro to Visual Art Honors **3 Credit hours**
An introduction to the methods and principles of the visual arts. Students will consider the work of major artists in thematic contexts. (For non-art majors only.)
Pre-req: Admitted Honors College with a score of 1.
Attributes: Core II Fine Arts, Honors
Grade Mode: Normal Grading Mode

ART 113 Art Education: Elementary **3 Credit hours**
An introduction to the materials and methods for teaching art in early childhood and elementary (PreK-6). Stages of development, integrated curriculum design, assessment, and instructional strategies are emphasized. An introduction to the materials and methods for teaching art in early childhood and elementary (PreK-6). Stages of development, integrated curriculum design, assessment, and instructional strategies are emphasized.
Grade Mode: Normal Grading Mode

ART 201 History of Art **3 Credit hours**
A survey of the development of architecture, sculpture, painting, and the minor arts to ca. 1400 A.D. to the present. A survey of the development of architecture, sculpture, painting, and the minor arts to ca. 1400 A.D. to the present.
Pre-req: ART 112 with a minimum grade of C or ART 101 with a minimum grade of C.
Grade Mode: Normal Grading Mode

ART 202 History of Art **3 Credit hours**
A survey of the history of art from the Renaissance to the present.
Pre-req: ART 112 with a minimum grade of C or ART 101 with a minimum grade of C.
Grade Mode: Normal Grading Mode

ART 214 Foundations: Grid/Chroma **3 Credit hours**
Introduction to graphic design principles/software in one half-semester workshop and color theory/painting in another. Students will develop visual, technical, and critical thinking skills by solving conceptual problems.
Grade Mode: Normal Grading Mode

ART 215 Foundations: Form/Space **3 Credit hours**
Introduction to 3D physical form/space by exploring ceramics in one half-semester workshop and sculpture in another. Students will develop visual, technical, and critical thinking skills by solving conceptual problems.
Grade Mode: Normal Grading Mode

ART 217 Foundations: Record/Layer **3 Credit hours**
Introduction to still life/figure drawing in one half-semester workshop and experimental drawing/mixed media in another. Students will develop perceptual, technical, and creative problem solving skills.
Grade Mode: Normal Grading Mode

ART 218 Foundations: Site/Matrix **3 Credit hours**
Introduction to installation art with fibers in one half-semester workshop and printmaking processes in another. Students will develop visual, technical, and critical thinking skills by solving conceptual problems.
Grade Mode: Normal Grading Mode

ART 219 Foundations: Frame/Time **3 Credit hours**
Introduction to digital/film photography in one half-semester workshop and 4D design principles/video-based processes in another. Students will develop visual, technical, and critical thinking skills by solving conceptual problems.
Attributes: Digital Humanities
Grade Mode: Normal Grading Mode

ART 255 Beginning Painting I **3 Credit hours**
Basic techniques using color creatively based on an understanding of visual structural elements; various media including water, acrylic and oil based paints. Basic techniques using color creatively based on an understanding of visual structural elements; various media including water, acrylic and oil based paints.
Pre-req: ART 214 with a minimum grade of C and ART 217 with a minimum grade of C.
Grade Mode: Normal Grading Mode

ART 271 Practicum **3 Credit hours**
Grade Mode: Normal Grading Mode

ART 272 Practicum **3 Credit hours**
Grade Mode: Normal Grading Mode

ART 280 Special Topics **1-4 Credit hours**
To be used for experimental courses. By permission only. To be used for experimental courses. By permission only.
Grade Mode: Normal Grading Mode

ART 281 Special Topics **1-4 Credit hours**
To be used for experimental courses. By permission only. To be used for experimental courses. By permission only.
Grade Mode: Normal Grading Mode

ART 282 Special Topics **1-4 Credit hours**
To be used for experimental courses. By permission only. To be used for experimental courses. By permission only.
Grade Mode: Normal Grading Mode

ART 283 Special Topics **1-4 Credit hours**
To be used for experimental courses. By permission only. To be used for experimental courses. By permission only.
Grade Mode: Normal Grading Mode

ART 298 Foundations Review: BFA **1 Credit hour**
Students must present art and design work from all foundations studio courses for faculty review. Required for program advancement. Art majors only.
Pre-req: (ART 101 with a minimum grade of C or ART 112 with a minimum grade of C) and ART 214 with a minimum grade of C and ART 215 with a minimum grade of C and ART 217 with a minimum grade of C and ART 218 with a minimum grade of C and ART 219 with a minimum grade of C.
Grade Mode: Normal Grading Mode

ART 299 Foundations Review: BA **1 Credit hour**
Students present artwork from foundations courses for faculty review. (Art Education 5-Adult: 218 not required). Successful completion of ART 299 is a prerequisite for advanced studio courses.
Pre-req: (ART 101 with a minimum grade of C or ART 112 with a minimum grade of C) and ART 214 with a minimum grade of C and ART 215 with a minimum grade of C and ART 217 with a minimum grade of C and ART 218 with a minimum grade of C and ART 219 with a minimum grade of C.
Grade Mode: Normal Grading Mode

ART 301 Printmaking Processes **3 Credit hours**
Experiments in the media of intaglio, lithography, serigraphy, relief collagraphs and new techniques in printmaking. Experiments in the media of intaglio, lithography, seri- graphy, relief collagraphs and new techniques in print- making.
Pre-req: ART 218 with a minimum grade of C.
Attributes: No Textbook Required
Grade Mode: Normal Grading Mode

ART 302 Relief Printmaking **3 Credit hours**
Traditional and experimental approaches to relief printmaking, including woodcut, linocut, wood engraving, relief etching, Japanese techniques, monoprints, and other press and handprinting relief processes. Traditional and experimental approaches to relief print-making, including woodcut, linocut, wood engraving, relief etching, Japanese techniques, monoprints, and other press and handprinting relief processes.
Pre-req: ART 301 with a minimum grade of C and (ART 298 with a minimum grade of C or ART 299 with a minimum grade of C).
Grade Mode: Normal Grading Mode

ART 303 Surface Design **3 Credit hours**
Introduction to surface design. Student will learn various techniques to apply color on fabric surface.
Pre-req: ART 214 with a minimum grade of C.
Grade Mode: Normal Grading Mode

ART 305 Ceramics **3 Credit hours**
Search for form and personal expressing through clay. Emphasis on handbuilding techniques, decorative processes and glaze application. Search for form and personal expressing through clay. Emphasis on handbuilding techniques, decorative processes and glaze application.
Pre-req: ART 215 with a minimum grade of C.
Grade Mode: Normal Grading Mode

ART 307 Sculpture **3 Credit hours**
Emphasis on modeling in clay and exploring the potential of plaster, wood and other materials relevant to the area of sculpture. Emphasis on modeling in clay and exploring the potential of plaster, wood and other materials relevant to the area of sculpture.
Pre-req: ART 215 with a minimum grade of C.
Grade Mode: Normal Grading Mode

ART 308 Weaving **3 Credit hours**
The student will demonstrate the ability to carry through the entire process for planning, through warping, threading, and weaving. Each will create unique art works while developing traditional technical skills. The student will demonstrate the ability to carry through the entire process for planning, through warping, threading, and weaving. Each will create unique art works while developing traditional technical skills.
Attributes: No Textbook Required
Grade Mode: Normal Grading Mode

ART 310 Art Education: Elementary **3 Credit hours**
An introduction to the materials and methods for teaching art in early childhood and elementary (PreK-6). Stages of development, integrated curriculum design, assessment, and instructional strategies are emphasized.
Grade Mode: Normal Grading Mode

ART 312 Typography **3 Credit hours**
Practical studio skills: Typography, application of design principles in print and digital media, and introduction to the computer as a design tool. Also, the designer's relationship to clients and other professionals. Practical studio skills: specifying type, photographic and airbruch techniques and preparation of mechanicals. Also, designer's relationship to agencies, clients, printers, and other professionals.
Pre-req: ART 214 with a minimum grade of C.
Grade Mode: Normal Grading Mode

ART 313 Installation Art With Fibers **3 Credit hours**
The student will create installation art using a variety of fibers tools, materials, and processes with focus on self-expression and the exploration of structure, space, color, form, and meaning.
Pre-req: ART 214 with a minimum grade of C.
Grade Mode: Normal Grading Mode

ART 314 Graphic Design I **3 Credit hours**
Sign combinations and visual structure, in relation to meaning of visual messages. Assignments include posters, advertising, information design, and corporate identity. Introduction to materials and procedures in the design process. Sign combinations and visual structure, in relation to meaning of visual messages. Assignments include posters, advertising, information design, and corporate identity. Introduction to materials and procedures in the design process.
Pre-req: (ART 214 with a minimum grade of C and ART 312 with a minimum grade of C) or (JMC 241 with a minimum grade of D and MKT 341 with a minimum grade of D).
Attributes: No Textbook Required
Grade Mode: Normal Grading Mode

ART 315 Intro to Photography **3 Credit hours**
Introduction to black and white photography through basic techniques of camera controls, lighting, traditional wet lab, and digital imaging.
Pre-req: ART 219 with a minimum grade of C.
Attributes: No Textbook Required
Grade Mode: Normal Grading Mode

ART 316 Graphic Design II **3 Credit hours**
Applies the use of type and images to design for advertising, editorial, for instructional purposed. Involvement with extended design and layout problems. Applies the use of type and images to design for advertising, editorial, for instructional purposed. Involvement with extended design and layout problems.
Pre-req: ART 314 with a minimum grade of C and (ART 298 with a minimum grade of C or ART 299 with a minimum grade of C).
Grade Mode: Normal Grading Mode

ART 317 Illustration **3 Credit hours**
Conceptual and technical development of illustrations for editorial and advertising purposes. Conceptual and technical development of illustrations for editorial and advertising purposes.
Pre-req: ART 217 with a minimum grade of C.
Grade Mode: Normal Grading Mode

ART 318 Art/Design for Websites **3 Credit hours**
This course will focus on art and design considerations in creating web sites. Current software will be used to create graphics, video and audio for web page and website design.
Pre-req: ART 214 with a minimum grade of C.
Attributes: Digital Humanities, No Textbook Required
Grade Mode: Normal Grading Mode

ART 319 Wood Fundamentals: Furniture **3 Credit hours**
The fundamental methods of wood furniture design and construction, including joinery techniques, will be taught. Domestic and exotic woods will be used.
Pre-req: ART 215 with a minimum grade of C.
Grade Mode: Normal Grading Mode

ART 320 Silk Screen Printmaking **3 Credit hours**
Experience with screen-printing stencil processes. The advanced student may also explore photographic stencilmaking and printing and a variety of surfaces. Experience with screen-printing stencil processes. The advanced student may also explore photographic stencil- making and printing and a variety of surfaces.
Pre-req: ART 301 with a minimum grade of C and (ART 298 with a minimum grade of C or ART 299 with a minimum grade of C).
Grade Mode: Normal Grading Mode

ART 322 Collagraphs **3 Credit hours**
Printmaking using the collagraph plate or matrix, an additive method that employs both intaglio and relief techniques. Printmaking using the collagraph plate or matrix, an additive method that employs both intaglio and relief techniques.
Pre-req: ART 301 with a minimum grade of C and (ART 298 with a minimum grade of C or ART 299 with a minimum grade of C).
Grade Mode: Normal Grading Mode

ART 323 35mm Slide Photography **3 Credit hours**
Photographic composition, color, and creative pictorial vision along with camera controls are explored through making 35mm slides. Photographic composition, color, and creative pictorial vision along with camera controls are explored through making 35mm slides.
Pre-req: ART 315 with a minimum grade of C or JMC 360 with a minimum grade of D.
Grade Mode: Normal Grading Mode

ART 324 Image Visual: Darkroom **3 Credit hours**
ART 324 is a continuation of material presented in ART 315. Students will explore black and white photography through a variety of cameras and techniques.
Pre-req: ART 315 with a minimum grade of C and (ART 298 with a minimum grade of C or ART 299 with a minimum grade of C).
Grade Mode: Normal Grading Mode

ART 325 Image Visualization: Digital **3 Credit hours**
ART 325 is an exploration using digital techniques. Students will refine their personal vision using digital cameras, lighting and digital imaging software.
Pre-req: ART 219 with a minimum grade of C.
Attributes: No Textbook Required
Grade Mode: Normal Grading Mode

ART 331 Expanded Forms of Sculpture **3 Credit hours**
Emphasizes alternative ways of creating sculpture. We will investigate and create artworks guiding by historical examples of ephemeral art, performance, interventions, language, sound, social practice, and land art.
Pre-req: ART 215 with a minimum grade of C.
Grade Mode: Normal Grading Mode

ART 332 Intro to Digital Sculpture **3 Credit hours**
Emphasis will be on the tools, materials and processes of additive and subtractive sculpture. Both traditional techniques and digital technologies will be explored using materials like plastic, wood, and foam. Emphasis will be on the tools, materials and processes of subtractive sculpture. Both traditional and modern tech- niques will be explored in carving from a variety of woods, stones and other materials.
Pre-req: ART 215 with a minimum grade of C.
Grade Mode: Normal Grading Mode

ART 333 Welded Sculpture **3 Credit hours**
A variety of techniques including oxygen/acetylene, arc and TIG welding will be studied and practiced in the process of direct metal sculpting. A variety of techniques including oxygen/acetylene, arc and TIG welding will be studied and practiced in the process of direct metal sculpting.
Pre-req: ART 298 with a minimum grade of C or ART 299 with a minimum grade of C.
Grade Mode: Normal Grading Mode

ART 335 Art Ed 2D-3D **3 Credit hours**
Philosophy, media and methods for teaching art (emphasis for elementary level); includes laboratory experiences. Philosophy, media and methods for teaching art (emphasis for elementary level); includes laboratory experiences.
Grade Mode: Normal Grading Mode

ART 340 Art Education: Secondary **3 Credit hours**
An introduction to the methods for teaching art at the secondary level (7-12). Authentic instruction and classroom assessment strategies are emphasized.
Pre-req: ART 113 with a minimum grade of C or ART 310 with a minimum grade of C.
Grade Mode: Normal Grading Mode

ART 343 Intro to Potter's Wheel **3 Credit hours**
Basic throwing skills, surface enrichment and glaze application emphasized. Design analysis and production of functional form stressed. Basic throwing skills, surface enrichment and glaze appli- cation emphasized. Design analysis and production of functional form stressed.
Pre-req: ART 215 with a minimum grade of C.
Grade Mode: Normal Grading Mode

ART 344 Primitive Ceramic Tech **3 Credit hours**
The study of local clay preparation and primitive firing and decorating techniques. The study of local clay preparation and primitive firing and decorating techniques.
Pre-req: (ART 305 with a minimum grade of C or ART 343 with a minimum grade of C) and (ART 298 with a minimum grade of C or ART 299 with a minimum grade of C).
Grade Mode: Normal Grading Mode

ART 345 Problems in Porcelain **3 Credit hours**
The formulation and use of porcelain in the production of utilitarian and sculptural form. The formulation and use of porcelain in the production of utilitarian and sculptural form.
Pre-req: (ART 305 with a minimum grade of C or ART 343 with a minimum grade of C) and (ART 298 with a minimum grade of C or ART 299 with a minimum grade of C).
Grade Mode: Normal Grading Mode

ART 350 Watercolor Painting **3 Credit hours**
Watercolor medium in expressing still life, landscape, and the human figure. Watercolor medium in expressing still life, landscape, and the human figure.
Pre-req: ART 214 with a minimum grade of C or ART 217 with a minimum grade of C.
Grade Mode: Normal Grading Mode

ART 351 Advanced Watercolor **3 Credit hours**
Advanced exploration of watercolor, inks and other fluid media. Emphasis will be on experimental methods and personal originality. Advanced exploration of watercolor, inks and other fluid media. Emphasis will be on experimental methods and personal originality.
Pre-req: ART 350 with a minimum grade of C and (ART 298 with a minimum grade of C or ART 299 with a minimum grade of C).
Grade Mode: Normal Grading Mode

ART 353 Beginning Painting I **3 Credit hours**
Pre-req: ART 214 with a minimum grade of C or ART 217 with a minimum grade of C.
Attributes: No Textbook Required
Grade Mode: Normal Grading Mode

ART 354 Beginning Painting II **3 Credit hours**
Pre-req: ART 353 with a minimum grade of C.
Grade Mode: Normal Grading Mode

ART 355 Painting III **3 Credit hours**
Continues development for the intermediate level painter with emphasis on techniques and form, including varied supports, grounds, mediums such as encaustics, synthetic reins, egg tempera, acrylics and oils. Continues development for the intermediate level painter with emphasis on techniques and form, including varied supports, grounds, mediums such as encaustics, synthetic reins, egg tempera, acrylics and oils.
Pre-req: ART 214 with a minimum grade of C or ART 217 with a minimum grade of C.
Grade Mode: Normal Grading Mode

ART 360 Mixed Media **3 Credit hours**
Projects in painting, drawing and mixed media. Projects in painting, drawing and mixed media.
Attributes: No Textbook Required
Grade Mode: Normal Grading Mode

ART 369 Mold Making & Casting **3 Credit hours**
Advanced processes of piece and flexible mold making will be studied and practiced for the purpose of casting complex forms and limited edition sculpture. Advanced processes of piece and flexible mold making will be studied and practiced for the purpose of casting complex forms and limited edition sculpture.
Pre-req: ART 305 with a minimum grade of C or ART 307 with a minimum grade of C or ART 343 with a minimum grade of C.
Grade Mode: Normal Grading Mode

ART 371 Practicum **3 Credit hours**
Grade Mode: Normal Grading Mode

ART 372 Practicum **3 Credit hours**
Grade Mode: Normal Grading Mode

ART 389 20th Century Art **3 Credit hours**
A survey of major 20th Century artists works, styles, movements and media in a broad historical context with discussion of research methods and directed research project. A survey of major 20th Century artists works, styles, movements and media in a broad historical context with discussion of research methods and directed research project.
Pre-req: ART 201 with a minimum grade of C and ART 202 with a minimum grade of C.
Grade Mode: Normal Grading Mode

ART 390 Professional Practice **3 Credit hours**
Current views and practice: contemporary issues in art, safe practices in the studio, career opportunities, technology and art, and professional skills for artists. Current views and practice: contemporary issues in art, safe practices in the studio, career opportunities, technology and art, and professional skills for artists.
Pre-req: ART 298 with a minimum grade of C or ART 299 with a minimum grade of C.
Attributes: No Textbook Required
Grade Mode: Normal Grading Mode

ART 404 Iconography of Mary **3 Credit hours**
Traces the sources and evolution of Catholic doctrine and images of the Virgin Mary. Traces the sources and evolution of Catholic doctrine and images of the Virgin Mary.
Grade Mode: Normal Grading Mode

ART 406 Figure Drawing **3 Credit hours**
Practice in drawing from the posed human figure. Practice in drawing from the posed human figure.
Pre-req: ART 217 with a minimum grade of C.
Grade Mode: Normal Grading Mode

ART 407 Tribal Arts **3 Credit hours**
An introduction to the unique arts of so-called precivilized peoples with a two-fold emphasis: First, the European pre-historic; second, the non-European primitive. An introduction to the unique arts of so-called pre-civilized peoples with a two-fold emphasis: First, the European pre-historic; second, the non-European primitive.
Pre-req: ART 202 with a minimum grade of C.
Grade Mode: Normal Grading Mode

ART 408 Art & Arch of Ancient Egypt **3 Credit hours**
History of the visual arts of ancient Egypt in the context of social and religious influences. History of the visual arts of ancient Egypt in the context of social and religious influences.
Pre-req: ART 201 with a minimum grade of C.
Grade Mode: Normal Grading Mode

ART 409 19th Century Art **3 Credit hours**
A survey of the development of architecture, painting, and sculpture in the Western World during the last century. A survey of the development of architecture, painting, and sculpture in the Western World during the last century.
Pre-req: ART 201 with a minimum grade of C and ART 202 with a minimum grade of C.
Grade Mode: Normal Grading Mode

ART 411 Art of Ancient Rome **3 Credit hours**
Explores the art and architecture of ancient Rome in light of social and religious influences.
Pre-req: ART 201 with a minimum grade of C.
Grade Mode: Normal Grading Mode

ART 414 Art & Arch Italian Renaissance **3 Credit hours**
Explores the art and architecture of the Italian Renaissance in the context of social and religious influences. Explores the art and architecture of the Italian Renaissance in the context of social and religious influences.
Pre-req: ART 201 with a minimum grade of C and ART 202 with a minimum grade of C.
Grade Mode: Normal Grading Mode

ART 415 Northern Renaissance Art **3 Credit hours**
Explores the art of Northern Europe during the Renaissance in light of social and religious influences.
Pre-req: ART 201 with a minimum grade of C and ART 202 with a minimum grade of C.
Grade Mode: Normal Grading Mode

ART 416 Baroque Art **3 Credit hours**
Analyzes Baroque art and the social milieu that influenced, commissioned, financed, and produced it.
Pre-req: ART 201 with a minimum grade of C and ART 202 with a minimum grade of C.
Grade Mode: Normal Grading Mode

ART 418 Advanced Drawing **3 Credit hours**
Drawing problems designed and executed by the individual student, in a variety of media, to develop unique imagery and increased technical skill. Drawing problems designed and executed by the individual student, in a variety of media, to develop unique imagery and increased technical skill.
Pre-req: ART 217 with a minimum grade of C.
Grade Mode: Normal Grading Mode

ART 419 Textile Construction **3 Credit hours**
Explore various textile materials using ancient and contemporary processes and their applications in the development of 21st century crafts and products.
Attributes: No Textbook Required
Grade Mode: Normal Grading Mode

ART 420 Textile Design **3 Credit hours**
Textile design for possible commercial production, emphasizing the creation of numerous fabric samples and limited amounts of yardage.
Grade Mode: Normal Grading Mode

ART 422 Digital Process for Textiles **3 Credit hours**
Students will use graphics software to produce original designs emphasizing the strength of these programs to quickly manipulate color palette, scale, and pattern to develop functional textiles for industrial use.
Grade Mode: Normal Grading Mode

ART 423 Photographic Lighting **3 Credit hours**
Advanced course for students who have completely mastered the basics of photography. Covers basic studio setup, creative use of the studio situation in portraits, still life and photo illustration. Advanced course for students who have completely mastered the basics of photography. Covers basic studio setup, creative use of the studio situation in portraits, still life and photo illustration.
Pre-req: ART 325 with a minimum grade of C and (ART 298 with a minimum grade of C or ART 299 with a minimum grade of C or AM 299 with a minimum grade of C).
Grade Mode: Normal Grading Mode

ART 424 Women and Art **3 Credit hours**
Explores the relationship of women to art historically; as artists, as subject matter, and as patrons/consumers.
Pre-req: ART 201 with a minimum grade of C and ART 202 with a minimum grade of C.
Grade Mode: Normal Grading Mode

ART 425 History of Photography **3 Credit hours**
Selected survey of the history of photography investigating the prehistory and invention of photography, portraiture, landscape, social documentary, aesthetic, and experimental practice, post-modernism, and the digital age.
Pre-req: ART 201 with a minimum grade of C and ART 202 with a minimum grade of C.
Grade Mode: Normal Grading Mode

ART 426 19th Century Photo Processes **3 Credit hours**
Explores traditional photographic processes that were prevalent during the 19th century combines with contemporary practices using digital techniques. Emphasis on creative development and technical proficiency.
Pre-req: ART 219 with a minimum grade of C.
Grade Mode: Normal Grading Mode

ART 427 Photo Portfolio **3 Credit hours**
Continued development of creative work with emphasis on preparation of portfolio and exhibition. Continued development of creative work with emphasis on preparation of portfolio and exhibition.
Pre-req: (ART 324 with a minimum grade of C or ART 325 with a minimum grade of C) and (ART 298 with a minimum grade of C or ART 299 with a minimum grade of C).
Grade Mode: Normal Grading Mode

ART 428 History of Medieval Art **3 Credit hours**
Explores the art and architecture of the European Middle Ages in light of social and religious influences.
Pre-req: ART 201 with a minimum grade of C.
Grade Mode: Normal Grading Mode

ART 429 Byzantine and Islamic Art **3 Credit hours**
Explores the art and architecture of the Byzantine Empire and neighboring medieval Islamic societies in light of social and religious influences.
Pre-req: ART 201 with a minimum grade of C.
Grade Mode: Normal Grading Mode

ART 432 Illusion **3 Credit hours**
Illusion explores the history and application of various illusionist effects to assist in the understanding of why artists incorporate illusion in their work and how these concepts convey relevant meaning.
Pre-req: (ART 298 with a minimum grade of C or ART 299 with a minimum grade of C) and (ART 301 with a minimum grade of C or ART 303 with a minimum grade of C or ART 305 with a minimum grade of C or ART 307 with a minimum grade of C or ART 312 with a minimum grade of C or ART 325 with a minimum grade of C or ART 343 with a minimum grade of C or ART 350 with a minimum grade of C or ART 353 with a minimum grade of C).
Grade Mode: Normal Grading Mode

ART 440 Adv Graphic Design **3 Credit hours**
Directed study in which student select subject from any area of commercial design with the goal of developing specific area of expertise. Emphasis on original design and research. Directed study in which student select subject from any area of commercial design with the goal of developing specific area of expertise. Emphasis on original design and research.
Pre-req: ART 316 with a minimum grade of C.
Grade Mode: Normal Grading Mode

ART 442 Site-Specific Sculpture **3 Credit hours**
Emphasis will be on creating sculptures that deal directly with unique spaces and particular locations. We will focus on how history, culture, and geography inspire site-specific sculptures.
Pre-req: ART 215 with a minimum grade of C.
Attributes: No Textbook Required
Grade Mode: Normal Grading Mode

ART 443 Mm/Assemblage Sculpture **3 Credit hours**
Combinations of found, fabricated and mixed materials will be assembled into original sculpture compositions. Combinations of found, fabricated and mixed materials will be assembled into original sculpture compositions.
Pre-req: ART 215 with a minimum grade of C.
Grade Mode: Normal Grading Mode

ART 444 Papermaking/Bookbinding **3 Credit hours**
The preparation and processing of fibers for papermaking including experiences in sheet forming, The preparation and processing of fibers for papermaking including experiences in sheet forming,
Pre-req: ART 301 with a minimum grade of C.
Grade Mode: Normal Grading Mode

ART 445 Graphic Design Corp Ident **3 Credit hours**
Application of graphic design, including typography, photography and illustrations in developing and implementing identity systems. Application of graphic design, including typography, photography and illustrations in developing and imple- menting identity systems.
Pre-req: ART 314 with a minimum grade of C and (ART 298 with a minimum grade of C or ART 299 with a minimum grade of C).
Grade Mode: Normal Grading Mode

ART 446 Intermed Potter's Wheel **3 Credit hours**
Continuation of Art 343. The student will master basic wheel and decorative processes developing a personal style in their work. Continuation of Art 343. The student will master basic wheel and decorative processes developing a personal style in their work.
Pre-req: ART 343 with a minimum grade of C and (ART 298 with a minimum grade of C or ART 299 with a minimum grade of C).
Attributes: No Textbook Required
Grade Mode: Normal Grading Mode

ART 447 Combined Ceramic Process **3 Credit hours**
Exploration of a variety of ceramic building and firing processes such as hand building, wheel and slip casting. Exploration of a variety of ceramic building and firing processes such as hand building, wheel and slip casting.
Pre-req: (ART 305 with a minimum grade of C or ART 343 with a minimum grade of C) and (ART 298 with a minimum grade of C or ART 299 with a minimum grade of C).
Grade Mode: Normal Grading Mode

ART 448 Ceramic Mat & Processes **3 Credit hours**
Practical and empirical investigation of ceramic materials, techniques and approaches to their use in clay and glazes. Practical and empirical investigation of ceramic materials, techniques and approaches to their use in clay and glazes.
Pre-req: (ART 305 with a minimum grade of C or ART 343 with a minimum grade of C) and (ART 298 with a minimum grade of C or ART 299 with a minimum grade of C).
Attributes: No Textbook Required
Grade Mode: Normal Grading Mode

ART 449 Ceramic Sculpture **3 Credit hours**
Contemporary ideas and techniques of ceramic fired and unfired sculpture. Contemporary ideas and techniques of ceramic fired and unfired sculpture.
Pre-req: ART 305 with a minimum grade of C and (ART 298 with a minimum grade of C or ART 299 with a minimum grade of C).
Grade Mode: Normal Grading Mode

ART 450 2 & 3D Designs for Fabric **3 Credit hours**
Exploring the potentialities of fabric as an art experience in two and three dimensional art form. Exploring the potentialities of fabric as an art experience in two and three dimensional art form.
Grade Mode: Normal Grading Mode

ART 451 Advanced Ceramics **3 Credit hours**
The advanced student will explore individual problems and interests in clay. The advanced student will explore individual problems and interests in clay.
Pre-req: (ART 305 or ART 343) and (ART 298 or ART 299).
Grade Mode: Normal Grading Mode

ART 453 Motion Design I **3 Credit hours**
Introductory topics in time-based media. Topics may include motion design, animation, video compositing, sound design, interactive design, data visualization, digital storytelling, or related subjects.
Pre-req: ART 298 with a minimum grade of C or ART 299 with a minimum grade of C or AM 299 with a minimum grade of C.
Grade Mode: Normal Grading Mode

ART 454 Motion Design II **3 Credit hours**
Advanced topics in time-based media. Topics may include motion design, animation, video compositing, sound design, interactive design, data visualization, digital storytelling, or related subjects. (PR: ART 453)
Pre-req: ART 453 with a minimum grade of C.
Attributes: No Textbook Required
Grade Mode: Normal Grading Mode

ART 455 Painting Acrylic & Oil **3 Credit hours**
Study and practice of painting in expressing still life, landscape, and the human figure. Study and practice of painting in expressing still life, landscape, and the human figure.
Pre-req: (ART 350 with a minimum grade of C or ART 353 with a minimum grade of C) and (ART 298 with a minimum grade of C or ART 299 with a minimum grade of C).
Grade Mode: Normal Grading Mode

ART 456 Painting Acrylic & Oil **3 Credit hours**
Study and practice of painting in expressing still life, landscape, and the human figure. Study and practice of painting in expressing still life, landscape, and the human figure.
Pre-req: ART 353 with a minimum grade of C and (ART 298 with a minimum grade of C or ART 299 with a minimum grade of C).
Grade Mode: Normal Grading Mode

ART 457 Figure Painting **3 Credit hours**
Painting the nude model using modern and classical methods. Painting the nude model using modern and classical methods.
Pre-req: ART 353 with a minimum grade of C and (ART 298 with a minimum grade of C or ART 299 with a minimum grade of C).
Grade Mode: Normal Grading Mode

ART 458 Adv Problems In Painting **3 Credit hours**
Refinement and development of individual concerns with content, form and techniques in painting. Refinement and development of individual concerns with content, form and techniques in painting.
Pre-req: ART 353 with a minimum grade of C or ART 354 with a minimum grade of C.
Grade Mode: Normal Grading Mode

ART 459 Digital Drawing and Painting **3 Credit hours**
Students will create conceptual illustrations for books, gaming, storyboards and movies by integrating traditional drawing and painting techniques with digital media.
Pre-req: ART 298 with a minimum grade of C or ART 299 with a minimum grade of C.
Grade Mode: Normal Grading Mode

ART 460 History & Phil of Art Ed **3 Credit hours**
A survey of the evolution of art education and philosophy, and a study of problems related to art education on the elementary and high school level. A survey of the evolution of art education and philosophy, and a study of problems related to art education on the elementary and high school level.
Pre-req: ART 340 with a minimum grade of C.
Grade Mode: Normal Grading Mode

ART 463 Adv Intaglio Printmaking **3 Credit hours**
Development of individualized form using intaglio techniques and incorporation multiple colors, plates, assemblages, collagraphs, photo-etching, and mixed media. Development of individualized form using intaglio techniques and incorporation multiple colors, plates, assemblages, collagraphs, photo-etching, and mixed media.
Pre-req: ART 301 with a minimum grade of C and (ART 298 with a minimum grade of C or ART 299 with a minimum grade of C).
Grade Mode: Normal Grading Mode

ART 464 History of Modern Design **3 Credit hours**
History of print and object design from the beginning of the nineteenth through the twentieth century will be studied in terms of art history, technology, politics, economics, and consumer behavior.
Pre-req: ART 201 with a minimum grade of C and ART 202 with a minimum grade of C.
Grade Mode: Normal Grading Mode

ART 465 Lithography **3 Credit hours**
Basic techniques of hand lithography, both stone and metal plate. Basic techniques of hand lithography, both stone and metal plate.
Pre-req: ART 301 with a minimum grade of C and (ART 298 with a minimum grade of C or ART 299 with a minimum grade of C).
Grade Mode: Normal Grading Mode

ART 466 Curr Dev Pub Sch Art K-12 **3 Credit hours**
Exploring considerations for curriculum development in art education; developing individualized curriculum for specific situations on grade levels K-6 or 7-12. Exploring considerations for curriculum development in art education; developing individualized curriculum for specific situations on grade levels K-6 or 7-12.
Pre-req: (ART 113 with a minimum grade of C or ART 310 with a minimum grade of C) and ART 340 with a minimum grade of C.
Grade Mode: Normal Grading Mode

ART 468 Secondary Ed: Teaching Art **3 Credit hours**
This course focuses on instructional standards and methods for teaching art at the secondary level with an emphasis on middle grades. A clinical experience provides observation and teaching. This course focuses on instructional standards and methods for teaching art at the secondary level with an emphasis on middle grades. A clinical experience provides observation and teaching.
Pre-req: ART 340 with a minimum grade of C and ART 460 with a minimum grade of C.
Grade Mode: Normal Grading Mode

ART 470 Practicum **3 Credit hours**
To be used for learning activities that involve the application of previously learned processes, theories, systems or techniques. To be used for learning activities that involve the appli- cation of previously learned processes, theories, systems or techniques.
Grade Mode: Normal Grading Mode

ART 472 Practicum **3 Credit hours**
To be used for learning activities that involve the application of previously learned processes, theories, systems or techniques. To be used for learning activities that involve the appli- cation of previously learned processes, theories, systems or techniques.
Grade Mode: Normal Grading Mode

ART 473 Practicum **3 Credit hours**
To be used for learning activities that involve the application of previously learned processes, theories, systems or techniques. To be used for learning activities that involve the appli- cation of previously learned processes, theories, systems or techniques.
Grade Mode: Normal Grading Mode

ART 475 Advanced Studio Sequence **3 Credit hours**
To be used to complete studio specialization and may be repeated. By permission only. To be used to complete studio specialization and may be repeated. By permission only.
Grade Mode: Normal Grading Mode

ART 476 Advanced Studio Sequence **3 Credit hours**
To be used to complete studio specialization and may be repeated. By permission only. To be used to complete studio specialization and may be repeated. By permission only.
Grade Mode: Normal Grading Mode

ART 477 Advanced Studio Sequence **3 Credit hours**
To be used to complete studio specialization and may be repeated. By permission only. To be used to complete studio specialization and may be repeated. By permission only.
Attributes: No Textbook Required
Grade Mode: Normal Grading Mode

ART 478 Advanced Studio Sequence **3 Credit hours**
To be used to complete studio specialization and may be repeated. By permission only. To be used to complete studio specialization and may be repeated. By permission only.
Attributes: No Textbook Required
Grade Mode: Normal Grading Mode

ART 479 Advanced Studio Sequence **3 Credit hours**
To be used to complete studio specialization and may be repeated. By permission only. To be used to complete studio specialization and may be repeated. By permission only.
Grade Mode: Normal Grading Mode

ART 480 Special Topics **1-4 Credit hours**
To be used for experimental courses. By permission only. To be used for experimental courses. By permission only.
Attributes: No Textbook Required
Grade Mode: Normal Grading Mode

ART 481 Special Topics **1-4 Credit hours**
To be used for experimental courses. By permission only. To be used for experimental courses. By permission only.
Attributes: No Textbook Required
Grade Mode: Normal Grading Mode

ART 482 Special Topics **1-4 Credit hours**
To be used for experimental courses. By permission only. To be used for experimental courses. By permission only.
Grade Mode: Normal Grading Mode

ART 483 Special Topics **1-4 Credit hours**
To be used for experimental courses. By permission only. To be used for experimental courses. By permission only.
Grade Mode: Normal Grading Mode

ART 485 Independent Study **1-4 Credit hours**
To be reserved for tutorials, directed and independent readings, directed and independent research, problem reports, and other activities designed to fit the needs of individual students within the major. To be reserved for tutorials, directed and independent readings, directed and independent research, problem reports, and other activities designed to fit the needs of individual students within the major.
Grade Mode: Normal Grading Mode

ART 486 Independent Study **1-4 Credit hours**
To be reserved for tutorials, directed and independent readings, directed and independent research, problem reports, and other activities designed to fit the needs of individual students with the major. To be reserved for tutorials, directed and independent readings, directed and independent research, problem reports, and other activities designed to fit the needs of individual students with the major.
Grade Mode: Normal Grading Mode

ART 487 Independent Study **1-4 Credit hours**
To be reserved for tutorials, directed and independent readings, directed and independent research, problem reports, and other activities designed to fit the needs of individual students within the major. To be reserved for tutorials, directed and independent readings, directed and independent research, problem reports, and other activities designed to fit the needs of individual students within the major.
Grade Mode: Normal Grading Mode

ART 488 Independent Study **1-4 Credit hours**
To be reserved for tutorials, directed and independent readings, directed and independent research, problem reports, and other activities designed to fit the needs of individual students within the major. To be reserved for tutorials, directed and independent readings, directed and independent research, problem reports, and other activities designed to fit the needs of individual students within the major.
Grade Mode: Normal Grading Mode

ART 489 Graphic Design Portfolio **2 Credit hours**
Pre-req: ART 316 with a minimum grade of C or AM 299 with a minimum grade of C.
Attributes: No Textbook Required
Grade Mode: Normal Grading Mode

ART 490 Apprenticeship **1-3 Credit hours**
Student is placed in a supervised work situation, offering the opportunity to perform professional work. This will include 60 work hours per each registered credit hour.
Pre-req: ART 316 with a minimum grade of C.
Attributes: No Textbook Required
Grade Mode: Normal Grading Mode

ART 491 Graphic Design Workshop **3 Credit hours**
Students in the workshop will engage in actual design problems with non-profit groups or small businesses to gain graphic design experience.
Pre-req: ART 298 with a minimum grade of C or ART 299 with a minimum grade of C.
Grade Mode: Normal Grading Mode

ART 497 Capstone Studio **3 Credit hours**
Students will research, plan and develop a substantial body of independently conceived artworks in consultation with studio art faculty.
Grade Mode: Normal Grading Mode

ART 498 Senior Capstone Exhibition BFA **3 Credit hours**
Students refine their creative visual productions and a supporting statement that culminate in a public exhibition.
Pre-req: ART 390 with a minimum grade of C.
Attributes: Capstone Course, No Textbook Required
Grade Mode: Normal Grading Mode

ART 499 Senior Capstone Exhibition BA **1 Credit hour**
Students document and exhibit their production from courses completed during their senior year in their area (s) of concentration. The exhibition should result from their academic as well as studio study. Students document and exhibit their production from courses completed during their senior year in their area (s) of concentration. The exhibition should result from their academic as well as studio study.
Pre-req: ART 298 with a minimum grade of C or ART 299 with a minimum grade of C.
Attributes: Capstone Course, No Textbook Required
Grade Mode: Credit/No Credit Grade Only

Art History, Minor

Code	Title	Credit Hours
ART 201	History of Art	3
ART 202	History of Art	3
Three additional courses in art history at an advanced level		9
Total Credit Hours		**15**

Art, B.A.

Bachelor Of Arts With A Major In Art

Admission and Performance Standards

Prospective students who wish to apply for admission to the Bachelor of Arts program must meet the general admission requirements for Marshall University.

Students enrolled in the Bachelor of Arts program are required to complete all coursework in the respective majors with a minimum grade of *C*. Course grades of *D* and *F* are not counted toward graduation requirements and must be replaced with a grade of *C* or better before graduation or before using that course as a prerequisite for another required course.

Candidates for graduation must have a Grade Point Average of 2.0 or higher in all work attempted at Marshall University.

Forty (40) credit hours must be earned in courses numbered 300-499.

No courses in the college and major requirements for graduation in the College of Arts and Media may be taken Credit/Non-Credit unless the course is otherwise specified.

Students pursuing the B.A. will complete a capstone project appropriate to their emphasis area and outside field. Projects must be approved by the student's school director and capstone advisor. B.A. students must register for ART 497 Capstone Studio.

Internship

Students may also complete an internship appropriate to their emphasis and outside field.

The curricular structure is designed with enough flexibility that students so desiring could expand a minor into a second major.

Areas of Emphasis

- Art History, Emphasis (p. 109)
- Visual Art and Design, Emphasis (p. 111)

Art History, Emphasis

- General Education Course

- Milestone course: a key success marker for your major. See your advisor to discuss the importance of this course in your plan of study.

Major

The Core Curriculum is designed to foster critical thinking skills and introduce students to basic domains of thinking that transcend disciplines. The Core applies to all majors. Information on specific classes in the Core can be found at https://www.marshall.edu/gened/.

Code	Title	Credit Hours
Core Curriculum		
Core 1: Critical Thinking		
FYS 100	First Yr Sem Critical Thinking	3
MTH 121	Concepts and Applications (CT)	3
Critical Thinking		3
Core 2		
ENG 101	Beginning Composition	3
ENG 201	Advanced Composition	3
CMM 103	Fund Speech-Communication	3
MTH 121	Concepts and Applications (CT)	3
Core II Phys./Natural Science		4
Core II Humanities		3
Core II Social Science		3
Core II Fine Arts		3
Additional University Requirements		
Writing Intensive		3
Writing Intensive		3
Multicultural/International		3
Capstone - directed research in Art History)		3
Major Requirements		
ART 101	Visual Culture and Research	3
ART 201	History of Art	3
ART 202	History of Art	3
ART 389	20th Century Art	3
ART 464	History of Modern Design	3
ART 485	Independent Study (Directed Research in Art History)	1-4
ART 486	Independent Study (Capstone - directed research in Art History))	1-4
Areas of Emphasis-Specific		
ART History Elective		3
ART History Elective		3
ART History Elective		3
ART History Elective		3
ART History Elective		3
ART History Elective		3
ART Elective		3
ART Elective		3
ART Elective		3
ART Elective		3
Minor or Non-Art Elective		3
Minor or Non-Art Elective		3
Minor or Non-Art Elective		3
Minor or Non-Art Elective		3
Minor or Non-Art Elective		3
Minor or Non-Art Elective		3
Minor or Non-Art Elective		3
Minor or Non-Art Elective		3
Minor or Non-Art Elective		3
Minor or Non-Art Elective		3
Minor or Non-Art Elective		3
Minor or Non-Art Elective		2

Major Information

- Prospective students who wish to apply for admission to the Bachelor of Arts program must meet the general admission requirements for Marshall University.

- Students enrolled in the Bachelor of Arts program are required to complete all coursework in the respective majors with a minimum grade of *C*. Course grades of *D* and *F* are not counted toward graduation requirements and must be replaced with a grade of *C* or better before graduation or before using that course as a prerequisite for another required course.
- Forty (40) credit hours must be earned in courses numbered 300-499.
- No courses in the college and major requirements for graduation in the College of Arts and Media may be taken Credit/Non-Credit unless the course is otherwise specified.
- Students pursuing the B.A. will complete a capstone project appropriate to their emphasis area and outside field. Projects must be approved by the student's school director and capstone advisor.

Code	Title	Credit Hours
Art History Track Core		
ART 101	Visual Culture and Research	3
ART 201	History of Art	3
ART 202	History of Art	3
ART 389	20th Century Art	3
ART 464	History of Modern Design	3
ART 485	Independent Study	1-4
ART 486	Independent Study	1-4
Art History Electives		
Select 18 hours of the following:		18
ART 404	Iconography of Mary	3
ART 407	Tribal Arts	3
ART 408	Art & Arch of Ancient Egypt	3
ART 409	19th Century Art	3
ART 411	Art of Ancient Rome	3
ART 414	Art & Arch Italian Renaissance	3
ART 415	Northern Renaissance Art	3
ART 416	Baroque Art	3
ART 424	Women and Art	3
ART 425	History of Photography	3
Studio Electives		
Select 12 credit hours taken from the 200- and 300- level studio courses; may include foundation courses		12
Minor		
Select 15-18 credit hours [1]		15-18
Additional Non-Art Electives		
Select 17-29 credit hours		17-29

[1] Students may elect to complete a second major with their non-art electives rather than a minor, depending upon their career goals.

- General Education Course

- Milestone course: a key success marker for your major. See your advisor to discuss the importance of this course in your plan of study.

Four Year Plan

The School of Art and Design offers the Bachelor of Arts (B.A.) in Art with areas of emphas in Visual Art and Design and in Art History. The Art History emphasis offers a wide variety of topics from an overview of western art history to specialized courses from antiquity through the contemporary era.

Course	Title	Credit Hours
First Year		
First Semester		
ART 101	Visual Culture and Research	3
ART Elective		3
ENG 101	Beginning Composition	3
FYS 100	First Yr Sem Critical Thinking	3
MTH 121	Concepts and Applications (CT)	3
UNI 100	Freshman First Class	1
	Credit Hours	**16**
Second Semester		
ART 201	History of Art	3
ART Elective		3
Minor or Non-Art Elective		3
CMM 103	Fund Speech-Communication	3
ENG 201	Advanced Composition	3
	Credit Hours	**15**
Second Year		
First Semester		
ART 202	History of Art	3
Minor or Non-Art Elective		3
ART History Elective (Pre-Renaissance)		3
ART Elective		3
Core II Physical/Natural Science		4
	Credit Hours	**16**
Second Semester		
ART 389	20th Century Art	3
ART History Elective		3
ART Elective		3
Minor or Non-Art Elective		3
Core II Fine Arts		3
	Credit Hours	**15**
Third Year		
First Semester		
ART 464	History of Modern Design	3
ART History Elective		3
Minor or Non-Art Elective		3
Minor or Non-Art Elective		3
Core II Social Science (M/I)		3
	Credit Hours	**15**
Second Semester		
ART History Elective		3
Minor or Non-Art Elective		3
Minor or Non-Art Elective		3
Minor or Non-Art Elective		3
Core II Humanities (WI)		3
	Credit Hours	**15**

Fourth Year		
First Semester		
ART History Elective		3
Minor or Non-Art Elective		1
Minor or Non-Art Elective		3
ART 485	Independent Study (Directed Research in Art History)	3
Writing Intensive		3
	Credit Hours	**13**
Second Semester		
ART History Elective		3
Minor or Non-Art Elective		3
Minor or Non-Art Elective		3
ART 486	Independent Study (Capstone)	3
Core I Critical Thinking		3
	Credit Hours	**15**
	Total Credit Hours	**120**

Visual Art and Design, Emphasis

- General Education Course

- Milestone course: a key success marker for your major. See your advisor to discuss the importance of this course in your plan of study.

Major

The Core Curriculum is designed to foster critical thinking skills and introduce students to basic domains of thinking that transcend disciplines. The Core applies to all majors. Information on specific classes in the Core can be found at https://www.marshall.edu/gened/.

Code	Title	Credit Hours
Core Curriculum		
Core 1: Critical Thinking		
FYS 100	First Yr Sem Critical Thinking	3
MTH 121	Concepts and Applications (CT)	3
Critical Thinking		3
Core 2		
ENG 101	Beginning Composition	3
ENG 201	Advanced Composition	3
CMM 103	Fund Speech-Communication	3
MTH 121	Concepts and Applications (CT)	3
Core II Phys./Natural Science		4
Core II Humanities		3
Core II Social Science		3
Core II Fine Arts		3
Additional University Requirements		
Writing Intensive		3
Writing Intensive		3
Multicultural/International		3
Capstone		3
Major Requirements		
ART 101	Visual Culture and Research	3
ART 214	Foundations: Grid/Chroma	3
ART 215	Foundations: Form/Space	3
ART 217	Foundations: Record/Layer	3
ART 218	Foundations: Site/Matrix	3
ART 219	Foundations: Frame/Time	3
ART 299	Foundations Review: BA	1
ART 201	History of Art	3
ART 202	History of Art	3
ART 497	Capstone Studio	3
Areas of Emphasis-Specific		
ART Studio Elective		3
ART Studio Elective		3
ART Studio Elective		3
ART Studio Elective		3
ART Studio Elective		3
ART Studio Elective		3
ART Studio Elective		3
ART Studio Elective		3
Minor or Non-Art Elective		3
Minor or Non-Art Elective		3
Minor or Non-Art Elective		3
Minor or Non-Art Elective		3
Minor or Non-Art Elective		3
Minor or Non-Art Elective		3
Minor or Non-Art Elective		3
Minor or Non-Art Elective		3
Minor or Non-Art Elective		3
Minor or Non-Art Elective		3
Minor or Non-Art Elective		3
Minor or Non-Art Elective		2

Major Information

- Students enrolled in the Bachelor of Arts program are required to complete all coursework in the respective majors with a minimum grade of *C*. Course grades of *D* and *F* are not counted toward graduation requirements and must be replaced with a grade of *C* or better before graduation or before using that course as a prerequisite for another required course.
- Forty (40) credit hours must be earned in courses numbered 300-499.
- No courses in the college and major requirements for graduation in the College of Arts and Media may be taken Credit/Non-Credit unless the course is otherwise specified.
- Students pursuing the B.A. will complete a capstone project appropriate to their emphasis area and outside field. Projects must be approved by the student's school director and capstone advisor. B.A. students must register for ART 499 Senior Capstone Exhibition BA.
- Studio Electives: Students must choose four courses that reflect the student's program of study selected in consultation with the academic advisor in Art and Design. The purpose of this component is to allow the student to engage with various media

beyond exposure in the art core and to develop further studio skills.

- A minimum of 120 credit hours is required for the degree.

Code	Title	Credit Hours
Visual Art and Design Track Core		
ART 101	Visual Culture and Research	3
ART 201	History of Art	3
ART 202	History of Art	3
ART 214	Foundations: Grid/Chroma	3
ART 215	Foundations: Form/Space	3
ART 217	Foundations: Record/Layer	3
ART 218	Foundations: Site/Matrix	3
ART 219	Foundations: Frame/Time	3
ART 299	Foundations Review: BA	1
ART 497	Capstone Studio	3
Studio Art Courses		
Select 24 credit hours of 300 and 400 level art studio courses [1]		24
Minor		
Select 15-18 credit hours [2]		15-18
Additional Non-Art Electives		
Select 17-29 credit hours		17-29

Foundations Review

B.A. Visual Art and Design, Emphasis students must register for ART 299 Foundations Review: BA .

Successful completion of ART 299 Foundations Review: BA is required and is a prerequisite for program advancement. Students who do not pass the Foundations Review and are within the studio art credit hour range listed above may apply for reconsideration. Students who have transferred within Marshall University will have two semesters to complete the courses listed above and participate in this review. However, transfers from art or art education departments at other universities are required to complete the review during the first semester they enroll in the MU School of Art & Design.

Code	Title	Credit Hours
ART 101	Visual Culture and Research	3
ART 214	Foundations: Grid/Chroma	3
ART 215	Foundations: Form/Space	3
ART 217	Foundations: Record/Layer	3
ART 218	Foundations: Site/Matrix	3
ART 219	Foundations: Frame/Time	3

1 Working in consultation with the Academic Advisor in Art and Design, students select 24 hours of 300 and 400 level art studio courses intended to allow the student to develop concepts and skills that enhance the student's ability to pursue career goals in an interdisciplinary way.

2 Students may elect to pursue a second major with their non-art electives rather than a minor.

- General Education Course

- Milestone course: a key success marker for your major. See your advisor to discuss the importance of this course in your plan of study.

Four Year Plan

The School of Art and Design offers the Bachelor of Arts (B.A.) with majors in either Art or Allied Arts. The major in Art has tracks in Visual Art and Design and in Art History. Visual Art and Design emphasizes visual art and its relationship to outside disciplines.

Course	Title	Credit Hours
First Year		
First Semester		
ART 101	Visual Culture and Research	3
ART 217	Foundations: Record/Layer	3
ENG 101	Beginning Composition	3
FYS 100	First Yr Sem Critical Thinking	3
Core II Fine Arts		3
UNI 100	Freshman First Class	1
	Credit Hours	**16**
Second Semester		
ART 214	Foundations: Grid/Chroma	3
ART 215	Foundations: Form/Space	3
MTH 121	Concepts and Applications (CT)	3
CMM 103	Fund Speech-Communication	3
Core II Social Science (M/I)		3
	Credit Hours	**15**
Second Year		
First Semester		
ART 201	History of Art	3
ART 218	Foundations: Site/Matrix	3
ART 219	Foundations: Frame/Time	3
Minor or Non-Art Elective		3
ENG 201	Advanced Composition	3
	Credit Hours	**15**
Second Semester		
ART 202	History of Art	3
ART 299	Foundations Review: BA	1
ART Studio Elective		3
Minor or Non-Art Elective		3
Minor or Non-Art Elective		3
Core II Humanities (WI)		3
	Credit Hours	**16**
Third Year		
First Semester		
ART Studio Elective		3
ART Studio Elective		3
Minor or Non-Art Elective		3
Minor or Non-Art Elective		3
Core II Physical/Natural Science		4
	Credit Hours	**16**

Second Semester		
ART Studio Elective		3
ART Studio Elective		3
Minor or Non-Art Elective		3
Minor or Non-Art Elective		3
Minor or Non-Art Elective		3
	Credit Hours	**15**
Fourth Year		
First Semester		
ART Studio Elective		3
ART Studio Elective		3
Minor or Non-Art Elective		3
Minor or Non-Art Elective		2
Minor or Non-Art Elective		2
	Credit Hours	**13**
Second Semester		
ART 497 🎓	Capstone Studio (or ART Elective)	3
ART Studio Elective		3
Minor or Non-Art Elective		3
Minor or Non-Art Elective		3
Core I Critical Thinking (WI)		3
	Credit Hours	**15**
	Total Credit Hours	**121**

Studio Art, Minor

Code	Title	Credit Hours
Foundation Courses		
Select two of the following:		6
ART 214	Foundations: Grid/Chroma	
ART 215	Foundations: Form/Space	
ART 217	Foundations: Record/Layer	
ART 218	Foundations: Site/Matrix	
ART 219	Foundations: Frame/Time	
Area of Emphasis Courses		
Select three courses in one of the art studio areas of emphasis (ceramics, fibers, graphic design, painting, photography, printmaking, or sculpture)		9
Total Credit Hours		**15**

All coursework must be selected in consultation with an art faculty member responsible for that studio area of emphasis. The School Art and Design program director serves as faculty advisor for art history and studio art minors, and verifies coursework and approves minors.

Visual Arts, B.F.A.

Students desiring to enter the Bachelor of Fine Arts degree program with a visual arts major are urged to contact the School of Art and Design prior to enrollment. A formal review of prior work in a portfolio is not required.

- General Education Course

🎓 - Milestone course: a key success marker for your major. See your advisor to discuss the importance of this course in your plan of study.

Major

Candidates for the Bachelor of Fine Arts degree (B.F.A.) with the major in visual arts are required to complete seventy-three (73) hours of credit in art courses, including the art core (52 hours) and a major area of emphasis (21 hours). Majors must also satisfy the following requirements:

1. After completing the required six foundation courses (ART 101 Visual Culture and Research and ART 214 Foundations: Grid/Chroma, ART 215 Foundations: Form/Space, ART 217 Foundations: Record/Layer, ART 218 Foundations: Site/Matrix, ART 219 Foundations: Frame/Time), students pursuing the Bachelor of Fine Arts are required to present a portfolio of work for review by the Art and Design faculty. To do so, B.F.A. students must register for ART 298 Foundations Review: BFA before completing 21 credit hours in studio art courses. Successful completion of ART 298 Foundations Review: BFA, is required and is a prerequisite for program advancement. Students who do not receive a passing grade of *C* in the Foundations Review and are within the studio art credit hour range listed above may apply for reconsideration. Students who have transferred within Marshall University will have two semesters to complete the courses listed above and participate in this review. However, transfers from art or art education departments at other universities are required to complete the review during the first semester they enroll in the MU School of Art and Design.
2. Students enrolled in the Bachelor of Fine Arts degree program must complete all work in the major with a minimum grade of *C*. A student who receives a *D* or *F* in an art course counted toward graduation must repeat it and earn at least a *C* before graduation or before using that course as a prerequisite for another required course.
3. Forty (40) credit hours must be earned in courses numbered 300-499.
4. No course in the major requirements for graduation may be taken Credit/Non-Credit unless the course is so specified.
5. A minimum of 120 credit hours is required for the degree.
6. A successful exhibition of creative work must be presented by all students during the senior year as a requirement for graduation. To do so,
   - B.F.A. students in all areas of emphasis except Graphic Design must register for ART 497 Capstone Studio, and ART 498 Senior Capstone Exhibition BFA.
   - Students in the Graphic Design emphasis area must register for ART 489 Graphic Design Portfolio; ART 490 Apprenticeship; and ART 498 Senior Capstone Exhibition BFA.
   - B.F.A. students in all areas of emphasis must register for ART 498 Senior Capstone Exhibition BFA (Capstone Exhibition)

Code	Title	Credit Hours
Foundation Courses		
ART 101	Visual Culture and Research	3
ART 214	Foundations: Grid/Chroma	3
ART 215	Foundations: Form/Space	3
ART 217	Foundations: Record/Layer	3

ART 218	Foundations: Site/Matrix	3
ART 219	Foundations: Frame/Time	3
Portfolio Presentation		
ART 298	Foundations Review: BFA	1
Total Credit Hours		**19**

Visual Arts, BFA

Code	Title	Credit Hours
Art Core		
ART 201	History of Art	3
ART 202	History of Art	3
ART 389	20th Century Art	3
or ART 464	History of Modern Design	
ART 390	Professional Practice	3
ART 497	Capstone Studio	3
ART 498	Senior Capstone Exhibition BFA	3
Art history elective		3
Electives		12
300/400 Level Courses outside the Area of Emphasis		
Areas of Emphasis in Visual Arts		
Students will complete 21 credit hours in a studio area of emphasis. [1]		21
Total Credit Hours		**54**

[1] Specific courses are listed. Advanced Studio Sequence courses, ART 475 Advanced Studio Sequence, ART 476 Advanced Studio Sequence, ART 478 Advanced Studio Sequence, and ART 479 Advanced Studio Sequence, may also be used.

Areas of Emphasis

- Ceramics, Emphasis (p. 114)
- Fibers, Emphasis (p. 116)
- Graphic Design, Emphasis (p. 117)
- Painting, Emphasis (p. 119)
- Photography, Emphasis (p. 121)
- Printmaking, Emphasis (p. 123)
- Sculpture, Emphasis (p. 124)
- Studio Art (p. 126)

Ceramics, Emphasis

- General Education Course

- Milestone course: a key success marker for your major. See your advisor to discuss the importance of this course in your plan of study.

Major

The Core Curriculum is designed to foster critical thinking skills and introduce students to basic domains of thinking that transcend disciplines. The Core applies to all majors. Information on specific classes in the Core can be found at https://www.marshall.edu/gened/.

Code	Title	Credit Hours
Core Curriculum		
Core 1: Critical Thinking		
FYS 100	First Yr Sem Critical Thinking	3
MTH 121	Concepts and Applications (CT)	3
Critical Thinking		3
Core 2		
ENG 101	Beginning Composition	3
ENG 201	Advanced Composition	3
CMM 103	Fund Speech-Communication	3
MTH 121	Concepts and Applications (CT)	3
Core II Phys./Natural Science		4
Core II Humanities		3
Core II Social Science		3
Core II Fine Arts		3
Additional University Requirements		
Writing Intensive		3
Writing Intensive		3
Multicultural/International		3
Capstone		3
Major Requirements		
Art Foundation and Visual Art Courses		
ART 101	Visual Culture and Research	3
ART 214	Foundations: Grid/Chroma	3
ART 215	Foundations: Form/Space	3
ART 217	Foundations: Record/Layer	3
ART 218	Foundations: Site/Matrix	3
ART 219	Foundations: Frame/Time	3
ART 298	Foundations Review: BFA	1
ART 201	History of Art	3
ART 202	History of Art	3
ART 389	20th Century Art	3
or ART 464	History of Modern Design	
Art History Elective		3
ART 390	Professional Practice	3
ART 497	Capstone Studio	3
ART 498	Senior Capstone Exhibition BFA	3
Area of Emphasis-Specific		
ART 305	Ceramics	3
or ART 343	Intro to Potter's Wheel	
ART 447	Combined Ceramic Process	3
ART 448	Ceramic Mat & Processes	3
ART 449	Ceramic Sculpture	3
or ART 451	Advanced Ceramics	
ART 300/400 Level Emphasis Area		3
ART 300/400 Level Emphasis Area		3
ART 300/400 Level Emphasis Area		3
Art Studio Elective		3
Art Studio Elective		3
Art Studio Elective		3
Art Studio Elective		3

Elective Outside of Major	3
Elective Outside of Major	3
Elective Outside of Major	3
Elective Outside of Major	3
Elective Outside of Major	1

Major Information

- After completing the required six foundation courses:

Code	Title	Credit Hours
ART 101	Visual Culture and Research	3
ART 214	Foundations: Grid/Chroma	3
ART 215	Foundations: Form/Space	3
ART 217	Foundations: Record/Layer	3
ART 218	Foundations: Site/Matrix	3
ART 219	Foundations: Frame/Time	3

  Students pursuing the Bachelor of Fine Arts are required to present a portfolio of work for review by the Art and Design faculty. To do so, B.F.A. students must register for ART 298 Foundations Review: BFA before completing 21 credit hours in the studio art courses listed above. Successful completion of ART 298 Foundations Review: BFA is required and is a prerequisite for program advancement. Students who do not receive a passing grade of *C* in the Foundations Review and are within the studio art credit hour range listed above may apply for reconsideration. Students who have transferred within Marshall University will have two semesters to complete the courses listed above and participate in this review. However, transfers from art or art education departments at other universities are required to complete the review during the first semester they enroll in the MU School of Art and Design.
- Students enrolled in the Bachelor of Fine Arts degree program must complete all work in the major with a minimum grade of *C*. A student who receives a *D* or *F* in an art course counted toward graduation must repeat it and earn at least a *C* before graduation or before using that course as a prerequisite for another required course.
- Forty (40) credit hours must be earned in courses numbered 300-499.
- No course in the major requirements for graduation may be taken Credit/ Non-Credit unless the course is so specified.
- A successful exhibition of creative work must be presented by all students during the senior year as a requirement for graduation. To do so, B.F.A. students must register for ART 498 Senior Capstone Exhibition BFA .

- General Education Course

- Milestone course: a key success marker for your major. See your advisor to discuss the importance of this course in your plan of study.

Four Year Plan

Ceramics focuses on the study of traditional formation processes within an atmosphere that promotes material exploration and experimentation. Students are encouraged to develop expertise with both the elements of craftsmanship and developing a strong conceptual voice within one's work. Critical inquiry of materials and methods is promoted as well as an encouragement for interdisciplinary practice. An understanding of ceramics history and its relationship to contemporary technologies creates a foundation for creating in the Ceramics studio.

Course	Title	Credit Hours
First Year		
First Semester		
ART 101	Visual Culture and Research	3
ART 214	Foundations: Grid/Chroma	3
ART 217	Foundations: Record/Layer	3
ENG 101	Beginning Composition	3
FYS 100	First Yr Sem Critical Thinking	3
UNI 100	Freshman First Class	1
	Credit Hours	**16**
Second Semester		
ART 215	Foundations: Form/Space	3
ART 218	Foundations: Site/Matrix	3
ART 219	Foundations: Frame/Time	3
CMM 103	Fund Speech-Communication	3
MTH 121	Concepts and Applications (CT)	3
	Credit Hours	**15**
Second Year		
First Semester		
ART 201	History of Art	3
ART 305 or ART 343	Ceramics or Intro to Potter's Wheel	3
ENG 201	Advanced Composition	3
Art Studio Elective		3
Elective Outside of Major		3
ART 298	Foundations Review: BFA	1
	Credit Hours	**16**
Second Semester		
ART 202	History of Art	3
ART 447	Combined Ceramic Process	3
Art Studio Elective		3
Core II Social Science (WI, M/I)		3
Elective Outside of Major		3
	Credit Hours	**15**
Third Year		
First Semester		
ART 300/400 Level Emphasis Area		3
ART 300/400 Level Emphasis Area		3
ART Studio Elective		3
Core II Physical/Natural Science		4
Elective Outside of Major		3
	Credit Hours	**16**
Second Semester		
ART 300/400 Level Emphasis Area		3
ART 448	Ceramic Mat & Processes	3
ART 389 or ART 464	20th Century Art or History of Modern Design	3
ART 390	Professional Practice	3

Core II Fine Arts		3
	Credit Hours	**15**
Fourth Year		
First Semester		
ART 449 or ART 451	Ceramic Sculpture or Advanced Ceramics	3
ART 497	Capstone Studio	3
Art History Elective		3
Elective Outside of Major		3
Writing Intensive		3
	Credit Hours	**15**
Second Semester		
ART 498	Senior Capstone Exhibition BFA	3
ART Studio Elective		3
Core II Humanities		3
Core I Critical Thinking		3
	Credit Hours	**12**
	Total Credit Hours	**120**

Fibers, Emphasis

- General Education Course

- Milestone course: a key success marker for your major. See your advisor to discuss the importance of this course in your plan of study.

Major

The Core Curriculum is designed to foster critical thinking skills and introduce students to basic domains of thinking that transcend disciplines. The Core applies to all majors. Information on specific classes in the Core can be found at https://www.marshall.edu/gened/.

Code	Title	Credit Hours
Core Curriculum		
Core 1: Critical Thinking		
FYS 100	First Yr Sem Critical Thinking	3
MTH 121	Concepts and Applications (CT)	3
Critical Thinking		3
Core 2		
ENG 101	Beginning Composition	3
ENG 201	Advanced Composition	3
CMM 103	Fund Speech-Communication	3
MTH 121	Concepts and Applications (CT)	3
Core II Phys./Natural Science		4
Core II Humanities		3
Core II Social Science		3
Core II Fine Arts		3
Additional University Requirements		
Writing Intensive		3
Writing Intensive		3
Multicultural/International		3
Capstone		3
Major Requirements		
ART 101	Visual Culture and Research	3
ART 214	Foundations: Grid/Chroma	3
ART 215	Foundations: Form/Space	3
ART 217	Foundations: Record/Layer	3
ART 218	Foundations: Site/Matrix	3
ART 219	Foundations: Frame/Time	3
ART 298	Foundations Review: BFA	1
ART 201	History of Art	3
ART 202	History of Art	3
ART 389 or ART 464	20th Century Art or History of Modern Design	3
Art History Elective		3
ART 390	Professional Practice	3
ART 497	Capstone Studio	3
ART 498	Senior Capstone Exhibition BFA	3
Area of Emphasis-Specific		
ART 303	Surface Design	3
ART 308	Weaving	3
ART 313	Installation Art With Fibers	3
ART 419	Textile Construction	3
ART 420	Textile Design	3
ART 300/400 Level Emphasis Area		3
ART 300/400 Level Emphasis Area		3
Art Studio Elective		3
Art Studio Elective		3
Art Studio Elective		3
Art Studio Elective		3
Elective Outside of Major		3
Elective Outside of Major		3
Elective Outside of Major		3
Elective Outside of Major		3
Elective Outside of Major		1

Major Information

- After completing the required six foundation courses:

Code	Title	Credit Hours
ART 101	Visual Culture and Research	3
ART 214	Foundations: Grid/Chroma	3
ART 215	Foundations: Form/Space	3
ART 217	Foundations: Record/Layer	3
ART 218	Foundations: Site/Matrix	3
ART 219	Foundations: Frame/Time	3

Students pursuing the Bachelor of Fine Arts are required to present a portfolio of work for review by the Art and Design faculty. To do so, B.F.A. students must register for ART 298 Foundations Review: BFA before completing the Studio Art courses listed above. Successful completion of ART 298 Foundations Review: BFA is required and is a prerequisite for program advancement. Students who do not receive a passing grade of *C* in the Foundations Review and are within the studio art credit hour range listed above may apply for reconsideration. Students who have transferred within Marshall University will have two semesters to complete the courses listed above and participate in this review.

However, transfers from art or art education departments at other universities are required to complete the review during the first semester they enroll in the MU School of Art and Design.

- Students enrolled in the Bachelor of Fine Arts degree program must complete all work in the major with a minimum grade of *C*. A student who receives a *D* or *F* in an art course counted toward graduation must repeat it and earn at least a *C* before graduation or before using that course as a prerequisite for another required course.
- Forty (40) credit hours must be earned in courses numbered 300-499.
- No course in the major requirements for graduation may be taken Credit/ Non-Credit unless the course is so specified.
- A successful exhibition of creative work must be presented by all students during the senior year as a requirement for graduation. To do so, B.F.A. students must register for ART 498 Senior Capstone Exhibition BFA .

- General Education Course

- Milestone course: a key success marker for your major. See your advisor to discuss the importance of this course in your plan of study.

Four Year Plan

Fibers concentrates on the exploration of fibers as a means of individual expression, explore sculptural, architectural, and functional possibilities in two and three dimensional work. Students learn to operate a variety of looms including table looms, counterbalance, jack-type and dobby looms from four to sixteen harnesses and from 20" to 60" in width in the creation of blankets, rugs, and yard goods. Tapestry looms, belt looms and card weaving as well as basketry are also explored. Spinning, dyeing, felt-making, and fabric printing may also be studied.

Course	Title	Credit Hours
First Year		
First Semester		
ART 101	Visual Culture and Research	3
ART 214	Foundations: Grid/Chroma	3
ART 217	Foundations: Record/Layer	3
ENG 101	Beginning Composition	3
FYS 100	First Yr Sem Critical Thinking	3
UNI 100	Freshman First Class	1
	Credit Hours	**16**
Second Semester		
ART 215	Foundations: Form/Space	3
ART 218	Foundations: Site/Matrix	3
ART 219	Foundations: Frame/Time	3
CMM 103	Fund Speech-Communication	3
MTH 121	Concepts and Applications (CT)	3
	Credit Hours	**15**
Second Year		
First Semester		
ART 201	History of Art	3
ART 303	Surface Design	3
ENG 201	Advanced Composition	3
Art Studio Elective		3
Elective Outside of Major		3
ART 298	Foundations Review: BFA	1
	Credit Hours	**16**
Second Semester		
ART 202	History of Art	3
ART 308	Weaving	3
Art Studio Elective		3
Core II Humanities (WI)		3
Elective Outside of Major		3
	Credit Hours	**15**
Third Year		
First Semester		
ART 313	Installation Art With Fibers	3
ART 419	Textile Construction	3
ART Studio Elective		3
Core II Physical/Natural Science		4
Core II Fine Arts		3
	Credit Hours	**16**
Second Semester		
ART 389 or ART 464	20th Century Art or History of Modern Design	3
ART 420	Textile Design	3
ART 300/400 Level Emphasis Area		3
ART 390	Professional Practice	3
Elective Outside of Major		3
	Credit Hours	**15**
Fourth Year		
First Semester		
ART 497	Capstone Studio	3
Art Studio Elective		3
Art History Elective		3
Elective Outside of Major		3
Writing Intensive		3
	Credit Hours	**15**
Second Semester		
ART 498	Senior Capstone Exhibition BFA	3
ART 300/400 Level-Emphasis Area		3
Core II Social Science (M/I)		3
Core I Critical Thinking		3
	Credit Hours	**12**
	Total Credit Hours	**120**

Graphic Design, Emphasis

- General Education Course

- Milestone course: a key success marker for your major. See your advisor to discuss the importance of this course in your plan of study.

Major

The Core Curriculum is designed to foster critical thinking skills and introduce students to basic domains of thinking that transcend

disciplines. The Core applies to all majors. Information on specific classes in the Core can be found at https://www.marshall.edu/gened/.

Code	Title	Credit Hours
Core Curriculum		
Core 1: Critical Thinking		
FYS 100	First Yr Sem Critical Thinking	3
MTH 121	Concepts and Applications (CT)	3
Critical Thinking		3
Core 2		
ENG 101	Beginning Composition	3
ENG 201	Advanced Composition	3
CMM 103	Fund Speech-Communication	3
MTH 121	Concepts and Applications (CT)	3
Core II Phys./Natural Science		4
Core II Humanities		3
Core II Social Science		3
Core II Fine Arts		3
Additional University Requirements		
Writing Intensive		3
Writing Intensive		3
Multicultural/International		3
Capstone		3
Major Requirements		
ART 101	Visual Culture and Research	3
ART 214	Foundations: Grid/Chroma	3
ART 215	Foundations: Form/Space	3
ART 217	Foundations: Record/Layer	3
ART 218	Foundations: Site/Matrix	3
ART 219	Foundations: Frame/Time	3
ART 298	Foundations Review: BFA	1
ART 201	History of Art	3
ART 202	History of Art	3
ART 389	20th Century Art	3
or ART 464	History of Modern Design	
Art History Elective		3
ART 390	Professional Practice	3
ART 489	Graphic Design Portfolio	2
ART 490	Apprenticeship	1-3
ART 498	Senior Capstone Exhibition BFA	3
Area of Emphasis-Specific		
ART 312	Typography	3
ART 314	Graphic Design I	3
ART 317	Illustration	3
or ART 318	Art/Design for Websites	
ART 316	Graphic Design II	3
ART 440	Adv Graphic Design	3
ART 300/400 Level Emphasis Area		3
ART 300/400 Level Emphasis Area		3
Art Studio Elective		3
Art Studio Elective		3
Art Studio Elective		3
Art Studio Elective		3
Elective Outside of Major		4
Elective Outside of Major		3
Elective Outside of Major		3
Elective Outside of Major		3
Elective Outside of Major		1

Major Information

- After completing the required six foundation courses:

Code	Title	Credit Hours
ART 101	Visual Culture and Research	3
ART 214	Foundations: Grid/Chroma	3
ART 215	Foundations: Form/Space	3
ART 217	Foundations: Record/Layer	3
ART 218	Foundations: Site/Matrix	3
ART 219	Foundations: Frame/Time	3

  Students pursuing the Bachelor of Fine Arts are required to present a portfolio of work for review by the Art and Design faculty. To do so, B.F.A. students must register for ART 298 Foundations Review: BFA before completing 21 credit hours in the Studio Art courses listed above. Successful completion of ART 298 Foundations Review: BFA is required and is a prerequisite for program advancement. Students who do not receive a passing grade of *C* in the Foundations Review and are within the studio art credit hour range listed above may apply for reconsideration. Students who have transferred within Marshall University will have two semesters to complete the courses listed above and participate in this review. However, transfers from art or art education departments at other universities are required to complete the review during the first semester they enroll in the MU School of Art and Design.

- Students enrolled in the Bachelor of Fine Arts degree program must complete all work in the major with a minimum grade of *C*. A student who receives a *D* or *F* in an art course counted toward graduation must repeat it and earn at least a *C* before graduation or before using that course as a prerequisite for another required course.
- Forty (40) credit hours must be earned in courses numbered 300-499.
- No course in the major requirements for graduation may be taken Credit/ Non-Credit unless the course is so specified.
- A successful exhibition of creative work must be presented by all students during the senior year as a requirement for graduation. To do so, B.F.A. students must register for ART 498 Senior Capstone Exhibition BFA .

- General Education Course

- Milestone course: a key success marker for your major. See your advisor to discuss the importance of this course in your plan of study.

Four Year Plan

Graphic Design is a dynamic, rewarding and challenging discipline to study. Graphic Design students work in an engaging environment where technical and conceptual problems are continuously presented

before them in order to flourish in a globally competitive marketplace. Through the practice of solving these problems, students develop their own individual strengths, gain social and historical context, make connections between disciplines, as well as develop a personal portfolio of work.

Course	Title	Credit Hours
First Year		
First Semester		
ART 101	Visual Culture and Research	3
ART 214	Foundations: Grid/Chroma	3
ART 217	Foundations: Record/Layer	3
ENG 101	Beginning Composition	3
FYS 100	First Yr Sem Critical Thinking	3
UNI 100	Freshman First Class	1
	Credit Hours	**16**
Second Semester		
ART 215	Foundations: Form/Space	3
ART 218	Foundations: Site/Matrix	3
ART 219	Foundations: Frame/Time	3
CMM 103	Fund Speech-Communication	3
MTH 121	Concepts and Applications (CT)	3
	Credit Hours	**15**
Second Year		
First Semester		
ART 201	History of Art	3
ART 312	Typography	3
ENG 201	Advanced Composition	3
Art Studio Elective		3
Elective Outside of Major		3
ART 298	Foundations Review: BFA	1
	Credit Hours	**16**
Second Semester		
ART 202	History of Art	3
ART 314	Graphic Design I	3
Art Studio Elective		3
Core II Humanities (WI)		3
Elective Outside of Major		3
	Credit Hours	**15**
Third Year		
First Semester		
ART 317 or ART 318	Illustration or Art/Design for Websites	3
ART 316	Graphic Design II	3
Art Studio Elective		3
Core II Fine Arts		3
Elective Outside of Major		3
	Credit Hours	**15**
Second Semester		
ART 440	Adv Graphic Design	3
ART 300/400 Level Emphasis Area		3
ART 389 or ART 464	20th Century Art or History of Modern Design	3
ART 390	Professional Practice	3
Core II Physical/Natural Science		4
	Credit Hours	**16**
Fourth Year		
First Semester		
ART 489	Graphic Design Portfolio	2
ART 490	Apprenticeship	1-3
ART Studio Elective		3
Art History Elective		3
Writing Intensive		3
	Credit Hours	**12-14**
Second Semester		
ART 498	Senior Capstone Exhibition BFA	3
Core I Critical Thinking		3
Core II Social Science (M/I)		3
Elective Outside of Major		3
ART 300/400 Level Emphasis Area		3
	Credit Hours	**15**
	Total Credit Hours	**120-122**

Painting, Emphasis

- General Education Course

- Milestone course: a key success marker for your major. See your advisor to discuss the importance of this course in your plan of study.

Major

The Core Curriculum is designed to foster critical thinking skills and introduce students to basic domains of thinking that transcend disciplines. The Core applies to all majors. Information on specific classes in the Core can be found at https://www.marshall.edu/gened/.

Code	Title	Credit Hours
Core Curriculum		
Core 1: Critical Thinking		
FYS 100	First Yr Sem Critical Thinking	3
MTH 121	Concepts and Applications (CT)	3
Critical Thinking		3
Core 2		
ENG 101	Beginning Composition	3
ENG 201	Advanced Composition	3
CMM 103	Fund Speech-Communication	3
MTH 121	Concepts and Applications (CT)	3
Core II Phys./Natural Science		4
Core II Humanities		3
Core II Social Science		3
Core II Fine Arts		3
Additional University Requirements		
Writing Intensive		3
Writing Intensive		3

Multicultural/International		3
Capstone		3
Major Requirements		
ART 101	Visual Culture and Research	3
ART 214	Foundations: Grid/Chroma	3
ART 215	Foundations: Form/Space	3
ART 217	Foundations: Record/Layer	3
ART 218	Foundations: Site/Matrix	3
ART 219	Foundations: Frame/Time	3
ART 298	Foundations Review: BFA	1
ART 201	History of Art	3
ART 202	History of Art	3
ART 389	20th Century Art	3
or ART 464	History of Modern Design	
Art History Elective		3
ART 390	Professional Practice	3
ART 497	Capstone Studio	3
ART 498	Senior Capstone Exhibition BFA	3
Area of Emphasis-Specific		
ART 353	Beginning Painting I	3
ART 350	Watercolor Painting	3
ART 300/400 Level Emphasis Area		3
ART 300/400 Level Emphasis Area		3
ART 300/400 Level Emphasis Area		3
ART 300/400 Level Emphasis Area		3
ART 300/400 Level Emphasis Area		3
Art Studio Elective		3
Art Studio Elective		3
Art Studio Elective		3
Art Studio Elective		3
Elective Outside of Major		3
Elective Outside of Major		3
Elective Outside of Major		3
Elective Outside of Major		3
Elective Outside of Major		1

Major Information

- After completing the required six foundation courses:

Code	Title	Credit Hours
ART 101	Visual Culture and Research	3
ART 214	Foundations: Grid/Chroma	3
ART 215	Foundations: Form/Space	3
ART 217	Foundations: Record/Layer	3
ART 218	Foundations: Site/Matrix	3
ART 219	Foundations: Frame/Time	3

Students pursuing the Bachelor of Fine Arts are required to present a portfolio of work for review by the Art and Design faculty. To do so, B.F.A. students must register for ART 298 Foundations Review: BFA before completing 21 credit hours in studio art courses listed above. Successful completion of ART 298 Foundations Review: BFA is required and is a prerequisite for program advancement. Students who do not receive a passing grade of *C* in the Foundations Review and are within the studio art credit hour range listed above may apply for reconsideration. Students who have transferred within Marshall University will have two semesters to complete the courses listed above and participate in this review. However, transfers from art or art education departments at other universities are required to complete the review during the first semester they enroll in the MU School of Art and Design.

- Students enrolled in the Bachelor of Fine Arts degree program must complete all work in the major with a minimum grade of *C*. A student who receives a *D* or *F* in an art course counted toward graduation must repeat it and earn at least a *C* before graduation or before using that course as a prerequisite for another required course.
- Forty (40) credit hours must be earned in courses numbered 300-499.
- No course in the major requirements for graduation may be taken Credit/ Non-Credit unless the course is so specified.
- A successful exhibition of creative work must be presented by all students during the senior year as a requirement for graduation. To do so, B.F.A. students must register for ART 498 Senior Capstone Exhibition BFA .

- General Education Course

- Milestone course: a key success marker for your major. See your advisor to discuss the importance of this course in your plan of study.

Four Year Plan

Painting is firmly based on well-organized practice with inventive use of tradition. Clear guidelines cultivate reflection with intuition and discipline with craft. Additional procedures give the artist true freedom to express anything in color. The individual approach begins to vary as students gain skills and analytical experience. Advanced painters often discover completely new and unexpected imagery. This is one of the strongest aspects of this painting program: the imagery advances independently and becomes unique to each artist.

Course	Title	Credit Hours
First Year		
First Semester		
ART 101	Visual Culture and Research	3
ART 214	Foundations: Grid/Chroma	3
ART 217	Foundations: Record/Layer	3
ENG 101	Beginning Composition	3
FYS 100	First Yr Sem Critical Thinking	3
UNI 100	Freshman First Class	1
	Credit Hours	**16**
Second Semester		
ART 215	Foundations: Form/Space	3
ART 218	Foundations: Site/Matrix	3
ART 219	Foundations: Frame/Time	3
CMM 103	Fund Speech-Communication	3
MTH 121	Concepts and Applications (CT)	3
	Credit Hours	**15**

Second Year		
First Semester		
ART 201	History of Art	3
ART 353	Beginning Painting I	3
ENG 201	Advanced Composition	3
Core II Humanities (WI)		3
Elective Outside of Major		3
ART 298	Foundations Review: BFA	1
	Credit Hours	**16**
Second Semester		
ART 202	History of Art	3
ART 350	Watercolor Painting	3
Core II Social Science (MC/I)		3
Elective Outside of Major		3
ART Studio Elective		3
	Credit Hours	**15**
Third Year		
First Semester		
ART 300/400 Level Emphasis Area		3
ART Studio Elective		3
ART 300/400 Level Emphasis Area		3
Core II Physical/Natural Science		4
Core II Fine Arts		3
	Credit Hours	**16**
Second Semester		
ART 300/400 Level Emphasis Area		3
ART 300/400 Level Emphasis Area		3
ART 389 or ART 464	20th Century Art or History of Modern Design	3
ART 390	Professional Practice	3
Elective Outside of Major		3
	Credit Hours	**15**
Fourth Year		
First Semester		
ART Studio Elective		3
ART 497	Capstone Studio	3
Art History Elective		3
Elective Outside of Major		3
Writing Intensive		3
	Credit Hours	**15**
Second Semester		
ART 498	Senior Capstone Exhibition BFA	3
ART 300/400 Level Emphasis Area		3
ART Studio Elective		3
Core I Critical Thinking		3
	Credit Hours	**12**
	Total Credit Hours	**120**

Photography, Emphasis

- General Education Course

- Milestone course: a key success marker for your major. See your advisor to discuss the importance of this course in your plan of study.

Major

The Core Curriculum is designed to foster critical thinking skills and introduce students to basic domains of thinking that transcend disciplines. The Core applies to all majors. Information on specific classes in the Core can be found at https://www.marshall.edu/gened/.

Code	Title	Credit Hours
Core Curriculum		
Core 1: Critical Thinking		
FYS 100	First Yr Sem Critical Thinking	3
MTH 121	Concepts and Applications (CT)	3
Critical Thinking		3
Core 2		
ENG 101	Beginning Composition	3
ENG 201	Advanced Composition	3
CMM 103	Fund Speech-Communication	3
MTH 121	Concepts and Applications (CT)	3
Core II Phys./Natural Science		4
Core II Humanities		3
Core II Social Science		3
Core II Fine Arts		3
Additional University Requirements		
Writing Intensive		3
Writing Intensive		3
Multicultural/International		3
Capstone		3
Major Requirements		
ART 101	Visual Culture and Research	3
ART 214	Foundations: Grid/Chroma	3
ART 215	Foundations: Form/Space	3
ART 217	Foundations: Record/Layer	3
ART 218	Foundations: Site/Matrix	3
ART 219	Foundations: Frame/Time	3
ART 298	Foundations Review: BFA	1
ART 201	History of Art	3
ART 202	History of Art	3
ART 389 or ART 464	20th Century Art History of Modern Design	3
Art History Elective		3
ART 390	Professional Practice	3
ART 497	Capstone Studio	3
ART 498	Senior Capstone Exhibition BFA	3
Area of Emphasis-Specific		
ART 315	Intro to Photography	3
ART 325	Image Visualization: Digital	3
ART 423	Photographic Lighting	3
ART 300/400 Level Emphasis Area		3
ART 300/400 Level Emphasis Area		3
ART 300/400 Level Emphasis Area		3

ART 300/400 Level Emphasis Area	3
Art Studio Elective	3
Art Studio Elective	3
Art Studio Elective	3
Art Studio Elective	3
Elective Outside of Major	3
Elective Outside of Major	3
Elective Outside of Major	3
Elective Outside of Major	3
Elective Outside of Major	1

Major Information

- After completing the required six foundation courses:

Code	Title	Credit Hours
ART 101	Visual Culture and Research	3
ART 214	Foundations: Grid/Chroma	3
ART 215	Foundations: Form/Space	3
ART 217	Foundations: Record/Layer	3
ART 218	Foundations: Site/Matrix	3
ART 219	Foundations: Frame/Time	3

  Students pursuing the Bachelor of Fine Arts are required to present a portfolio of work for review by the Art and Design faculty. To do so, B.F.A. students must register for ART 298 Foundations Review: BFA before completing 21 credit hours in the Studio Art courses listed above. Successful completion of ART 298 Foundations Review: BFA is required and is a prerequisite for program advancement. Students who do not receive a passing grade of *C* in the Foundations Review and are within the studio art credit hour range listed above may apply for reconsideration. Students who have transferred within Marshall University will have two semesters to complete the courses listed above and participate in this review. However, transfers from art or art education departments at other universities are required to complete the review during the first semester they enroll in the MU School of Art and Design.
- Students enrolled in the Bachelor of Fine Arts degree program must complete all work in the major with a minimum grade of *C*. A student who receives a *D* or *F* in an art course counted toward graduation must repeat it and earn at least a *C* before graduation or before using that course as a prerequisite for another required course.
- Forty (40) credit hours must be earned in courses numbered 300-499.
- No course in the major requirements for graduation may be taken Credit/ Non-Credit unless the course is so specified.
- A successful exhibition of creative work must be presented by all students during the senior year as a requirement for graduation. To do so, B.F.A. students must register for ART 498 Senior Capstone Exhibition BFA .

- General Education Course

- Milestone course: a key success marker for your major. See your advisor to discuss the importance of this course in your plan of study.

Four Year Plan

Photography concentrates on the practice of photography as a fine art – a means personal expression. Students explore photographic materials and practices in order to create challenging and stimulating images. Through extensive studio critiques, students and faculty discuss aesthetic choices and possibilities to make the most effective work possible. The photography area's facilities and curriculum support a hybrid approach to the medium that seamlessly blend 35 mm film and digital processes, increasing students' competitive edge.

Course	Title	Credit Hours
First Year		
First Semester		
ART 101	Visual Culture and Research	3
ART 214	Foundations: Grid/Chroma	3
ART 217	Foundations: Record/Layer	3
ENG 101	Beginning Composition	3
FYS 100	First Yr Sem Critical Thinking	3
UNI 100	Freshman First Class	1
	Credit Hours	**16**
Second Semester		
ART 215	Foundations: Form/Space	3
ART 218	Foundations: Site/Matrix	3
ART 219	Foundations: Frame/Time	3
CMM 103	Fund Speech-Communication	3
MTH 121	Concepts and Applications (CT)	3
	Credit Hours	**15**
Second Year		
First Semester		
ART 201	History of Art	3
ART 315	Intro to Photography	3
ENG 201	Advanced Composition	3
Art Studio Elective		3
Elective Outside of Major		3
ART 298	Foundations Review: BFA	1
	Credit Hours	**16**
Second Semester		
ART 202	History of Art	3
ART 325	Image Visualization: Digital	3
Art Studio Elective		3
Core II Social Science (MC/I)		3
Elective Outside of Major		3
	Credit Hours	**15**
Third Year		
First Semester		
ART 423	Photographic Lighting	3
ART 300/400 Level Emphasis Area		3
ART Studio Elective		3
Core II Physical/Natural Science		4
Elective Outside of Major		3
	Credit Hours	**16**

Second Semester		
ART Studio Elective		3
ART 300/400 Level Emphasis Area		3
ART 389 or ART 464	20th Century Art or History of Modern Design	3
ART 390	Professional Practice	3
Core II Fine Arts		3
	Credit Hours	**15**
Fourth Year		
First Semester		
ART 300/400 Level Emphasis Area		3
ART 497	Capstone Studio	3
Art History Elective		3
Core II Humanities (WI)		3
Core I Critical Thinking		3
	Credit Hours	**15**
Second Semester		
ART 498	Senior Capstone Exhibition BFA	3
ART 300/400 Level Emphasis Area		3
Elective Outside of Major		3
Writing Intensive		3
	Credit Hours	**12**
	Total Credit Hours	**120**

Printmaking, Emphasis

- General Education Course

- Milestone course: a key success marker for your major. See your advisor to discuss the importance of this course in your plan of study.

Major

The Core Curriculum is designed to foster critical thinking skills and introduce students to basic domains of thinking that transcend disciplines. The Core applies to all majors. Information on specific classes in the Core can be found at https://www.marshall.edu/gened/.

Code	Title	Credit Hours
Core Curriculum		
Core 1: Critical Thinking		
FYS 100	First Yr Sem Critical Thinking	3
MTH 121	Concepts and Applications (CT)	3
Critical Thinking		3
Core 2		
ENG 101	Beginning Composition	3
ENG 201	Advanced Composition	3
CMM 103	Fund Speech-Communication	3
MTH 121	Concepts and Applications (CT)	3
Core II Phys./Natural Science		4
Core II Humanities		3
Core II Social Science		3
Core II Fine Arts		3
Additional University Requirements		
Writing Intensive		3
Writing Intensive		3
Multicultural/International		3
Capstone		3
Major Requirements		
ART 101	Visual Culture and Research	3
ART 214	Foundations: Grid/Chroma	3
ART 215	Foundations: Form/Space	3
ART 217	Foundations: Record/Layer	3
ART 218	Foundations: Site/Matrix	3
ART 219	Foundations: Frame/Time	3
ART 298	Foundations Review: BFA	1
ART 201	History of Art	3
ART 202	History of Art	3
ART 389 or ART 464	20th Century Art History of Modern Design	3
Art History Elective		3
ART 390	Professional Practice	3
ART 497	Capstone Studio	3
ART 498	Senior Capstone Exhibition BFA	3
Area of Emphasis-Specific		
ART 301	Printmaking Processes	3
ART 320	Silk Screen Printmaking	3
ART 302	Relief Printmaking	3
ART 463	Adv Intaglio Printmaking	3
ART 300/400 Level Emphasis Area		3
ART 300/400 Level Emphasis Area		3
ART 300/400 Level Emphasis Area		3
Art Studio Elective		3
Art Studio Elective		3
Art Studio Elective		3
Art Studio Elective		3
Elective Outside of Major		3
Elective Outside of Major		3
Elective Outside of Major		3
Elective Outside of Major		3
Elective Outside of Major		1

Major Information

- After completing the required six foundation courses:

Code	Title	Credit Hours
ART 101	Visual Culture and Research	3
ART 214	Foundations: Grid/Chroma	3
ART 215	Foundations: Form/Space	3
ART 217	Foundations: Record/Layer	3
ART 218	Foundations: Site/Matrix	3
ART 219	Foundations: Frame/Time	3

Students pursuing the Bachelor of Fine Arts are required to present a portfolio of work for review by the Art and Design faculty. To do so, B.F.A. students must register for ART 298 Foundations Review: BFA before completing 21 credit hours in the Studio Art courses listed above. Successful completion of ART 298

Foundations Review: BFA is required and is a prerequisite for program advancement. Students who do not receive a passing grade of *C* in the Foundations Review and are within the studio art credit hour range listed above may apply for reconsideration. Students who have transferred within Marshall University will have two semesters to complete the courses listed above and participate in this review. However, transfers from art or art education departments at other universities are required to complete the review during the first semester they enroll in the MU School of Art and Design.

- Students enrolled in the Bachelor of Fine Arts degree program must complete all work in the major with a minimum grade of *C*. A student who receives a *D* or *F* in an art course counted toward graduation must repeat it and earn at least a *C* before graduation or before using that course as a prerequisite for another required course.
- Forty (40) credit hours must be earned in courses numbered 300-499.
- No course in the major requirements for graduation may be taken Credit/ Non-Credit unless the course is so specified.
- A successful exhibition of creative work must be presented by all students during the senior year as a requirement for graduation. To do so, B.F.A. students must register for ART 498 Senior Capstone Exhibition BFA .

- General Education Course

- Milestone course: a key success marker for your major. See your advisor to discuss the importance of this course in your plan of study.

Four Year Plan

Printmaking offers a wide range of traditional and innovative experiences. Students are exposed to contemporary approaches utilizing printmaking techniques for the development of ideas and art on and off paper in a healthy environment. Beginning and advanced classes concentrate on the investigation of form and content as it relates to printmaking processes in intaglio, lithography, relief, serigraphy, letterpress, and papermaking. An extensive range of rare letter type is available to support book arts.

Course	Title	Credit Hours
First Year		
First Semester		
ART 101	Visual Culture and Research	3
ART 214	Foundations: Grid/Chroma	3
ART 217	Foundations: Record/Layer	3
ENG 101	Beginning Composition	3
FYS 100	First Yr Sem Critical Thinking	3
UNI 100	Freshman First Class	1
	Credit Hours	**16**
Second Semester		
ART 215	Foundations: Form/Space	3
ART 218	Foundations: Site/Matrix	3
ART 219	Foundations: Frame/Time	3
CMM 103	Fund Speech-Communication	3
MTH 121	Concepts and Applications (CT)	3
	Credit Hours	**15**
Second Year		
First Semester		
ART 201	History of Art	3
ART 301	Printmaking Processes	3
ENG 201	Advanced Composition	3
Art Studio Elective		3
Elective Outside of Major		3
ART 298	Foundations Review: BFA	1
	Credit Hours	**16**
Second Semester		
ART 202	History of Art	3
ART 320	Silk Screen Printmaking	3
Art Studio Elective		3
Core II Social Science (MC/I)		3
Elective Outside of Major		3
	Credit Hours	**15**
Third Year		
First Semester		
ART 302	Relief Printmaking	3
ART 300/400 Level Emphasis Area		3
ART Studio Elective		3
Core II Physical/Natural Science		4
Elective Outside of Major		3
	Credit Hours	**16**
Second Semester		
ART 300/400 Level Emphasis Area		3
ART 463	Adv Intaglio Printmaking	3
ART 389 or ART 464	20th Century Art or History of Modern Design	3
ART 390	Professional Practice	3
Core II Fine Arts		3
	Credit Hours	**15**
Fourth Year		
First Semester		
ART Studio Elective		3
ART 497	Capstone Studio	3
Art History Elective		3
Elective Outside of Major		3
Writing Intensive		3
	Credit Hours	**15**
Second Semester		
ART 498	Senior Capstone Exhibition BFA	3
ART 400 Level Emphasis		3
Core II Humanitites (WI)		3
Core I Critical Thinking		3
	Credit Hours	**12**
	Total Credit Hours	**120**

Sculpture, Emphasis

- General Education Course

- Milestone course: a key success marker for your major. See your advisor to discuss the importance of this course in your plan of study.

Major

The Core Curriculum is designed to foster critical thinking skills and introduce students to basic domains of thinking that transcend disciplines. The Core applies to all majors. Information on specific classes in the Core can be found at https://www.marshall.edu/gened/.

Code	Title	Credit Hours
Core Curriculum		
Core 1: Critical Thinking		
FYS 100	First Yr Sem Critical Thinking	3
MTH 121	Concepts and Applications (CT)	3
Critical Thinking		3
Core 2		
ENG 101	Beginning Composition	3
ENG 201	Advanced Composition	3
CMM 103	Fund Speech-Communication	3
MTH 121	Concepts and Applications (CT)	3
Core II Phys./Natural Science		4
Core II Humanities		3
Core II Social Science		3
Core II Fine Arts		3
Additional University Requirements		
Writing Intensive		3
Writing Intensive		3
Multicultural/International		3
Capstone		3
Major Requirements		
ART 101	Visual Culture and Research	3
ART 214	Foundations: Grid/Chroma	3
ART 215	Foundations: Form/Space	3
ART 217	Foundations: Record/Layer	3
ART 218	Foundations: Site/Matrix	3
ART 219	Foundations: Frame/Time	3
ART 298	Foundations Review: BFA	1
ART 201	History of Art	3
ART 202	History of Art	3
ART 389	20th Century Art	3
or ART 464	History of Modern Design	
Art History Elective		3
ART 390	Professional Practice	3
ART 497	Capstone Studio	3
ART 498	Senior Capstone Exhibition BFA	3
Area of Emphasis-Specific		
ART 307	Sculpture	3
ART 319	Wood Fundamentals: Furniture	3
ART 333	Welded Sculpture	3
ART 442	Site-Specific Sculpture	3
ART 300/400 Level Emphasis Area		3
ART 300/400 Level Emphasis Area		3
ART 300/400 Level Emphasis Area		3
Art Studio Elective		3
Art Studio Elective		3
Art Studio Elective		3
Art Studio Elective		3
Elective Outside of Major		3
Elective Outside of Major		3
Elective Outside of Major		3
Elective Outside of Major		3
Elective Outside of Major		1

Major Information

- After completing the required six foundation courses:

Code	Title	Credit Hours
ART 101	Visual Culture and Research	3
ART 214	Foundations: Grid/Chroma	3
ART 215	Foundations: Form/Space	3
ART 217	Foundations: Record/Layer	3
ART 218	Foundations: Site/Matrix	3
ART 219	Foundations: Frame/Time	3

  Students pursuing the Bachelor of Fine Arts are required to present a portfolio of work for review by the Art and Design faculty. To do so, B.F.A. students must register for ART 298 Foundations Review: BFA before completing 21 credit hours in the Studio Art courses listed above. Successful completion of ART 298 Foundations Review: BFA is required and is a prerequisite for program advancement. Students who do not receive a passing grade of *C* in the Foundations Review and are within the studio art credit hour range listed above may apply for reconsideration. Students who have transferred within Marshall University will have two semesters to complete the courses listed above and participate in this review. However, transfers from art or art education departments at other universities are required to complete the review during the first semester they enroll in the MU School of Art and Design.
- Students enrolled in the Bachelor of Fine Arts degree program must complete all work in the major with a minimum grade of *C*. A student who receives a *D* or *F* in an art course counted toward graduation must repeat it and earn at least a *C* before graduation or before using that course as a prerequisite for another required course.
- Forty (40) credit hours must be earned in courses numbered 300-499.
- No course in the major requirements for graduation may be taken Credit/ Non-Credit unless the course is so specified.
- A successful exhibition of creative work must be presented by all students during the senior year as a requirement for graduation. To do so, B.F.A. students must register for ART 498 Senior Capstone Exhibition BFA .

- General Education Course

- Milestone course: a key success marker for your major. See your advisor to discuss the importance of this course in your plan of study.

Four Year Plan

In the Sculpture emphasis we think conceptually, work in an interdisciplinary way, experiment readily, and form a deep skill set in a wide range of materials using numerous processes. Our students become adept in the wood and metal shops along with becoming proficient in a number of computer technologies to aid in construction. Outside of traditional sculpture, we experiment with video and sound installations, performance, social practice, public art, and aspects of post-studio artmaking. All these ways of making demand critical thinking skills to invent creative solutions. In addition to extensive hands-on work, students can expect to get an in-depth understanding of contemporary sculpture and the artists who are expanding the field.

Course	Title	Credit Hours
First Year		
First Semester		
ART 101	Visual Culture and Research	3
ART 214	Foundations: Grid/Chroma	3
ART 217	Foundations: Record/Layer	3
ENG 101	Beginning Composition	3
FYS 100	First Yr Sem Critical Thinking	3
UNI 100	Freshman First Class	1
	Credit Hours	**16**
Second Semester		
ART 215	Foundations: Form/Space	3
ART 218	Foundations: Site/Matrix	3
ART 219	Foundations: Frame/Time	3
CMM 103	Fund Speech-Communication	3
MTH 121	Concepts and Applications (CT)	3
	Credit Hours	**15**
Second Year		
First Semester		
ART 201	History of Art	3
ART 307	Sculpture	3
ENG 201	Advanced Composition	3
Art Studio Elective		3
Elective Outside of Major		3
ART 298	Foundations Review: BFA	1
	Credit Hours	**16**
Second Semester		
ART 202	History of Art	3
ART 319	Wood Fundamentals: Furniture	3
Art Studio Elective		3
Core II Humanities (WI)		3
Elective Outside of Major		3
	Credit Hours	**15**
Third Year		
First Semester		
ART 300/400 Level Emphasis Area		3
ART 300/400 Level Emphasis Area		3
ART Studio Elective		3
Core II Physical/Natural Science		4
Elective Outside of Major		3
	Credit Hours	**16**
Second Semester		
ART Studio Elective		3
ART 333	Welded Sculpture	3
ART 389 or ART 464	20th Century Art or History of Modern Design	3
ART 390	Professional Practice	3
Core II Fine Arts		3
	Credit Hours	**15**
Fourth Year		
First Semester		
ART 442	Site-Specific Sculpture	3
ART 497	Capstone Studio	3
Art History Elective		3
Elective Outside of Major		3
Writing Intensive		3
	Credit Hours	**15**
Second Semester		
ART 498	Senior Capstone Exhibition BFA	3
ART 300/400 Level Emphasis Area		3
Core II Social Science (MC/I)		3
Core I Critical Thinking		3
	Credit Hours	**12**
	Total Credit Hours	**120**

Studio Art

The Studio Art Emphasis is different from the other B.F.A. emphasis areas by allowing students more course options, encouraging working across disciplines, and creating a more open curriculum that reflects contemporary art practice. Students can design their own curriculum in coordination with their academic advisor.

- General Education Course

- Milestone course: a key success marker for your major. See your advisor to discuss the importance of this course in your plan of study.

The Core Curriculum is designed to foster critical thinking skills and introduce students to basic domains of thinking that transcend disciplines. The Core applies to all majors. Information on specific classes in the Core can be found at https://www.marshall.edu/gened/.

Code	Title	Credit Hours
Core Curriculum		
Core 1: Critical Thinking		
FYS 100	First Yr Sem Critical Thinking	3
MTH 121	Concepts and Applications (CT)	3
Critical Thinking		3
Core 2		
ENG 101	Beginning Composition	3
ENG 201	Advanced Composition	3
CMM 103	Fund Speech-Communication	3
MTH 121	Concepts and Applications (CT)	3

Core II Phys./Natural Science		4
Core II Humanities		3
Core II Social Science		3
Core II Fine Arts		3
Additional University Requirements		
Writing Intensive		3
Writing Intensive		3
Multicultural/International		
Capstone		3
Major Requirements		
ART 101	Visual Culture and Research	3
ART 214	Foundations: Grid/Chroma	3
ART 215	Foundations: Form/Space	3
ART 217	Foundations: Record/Layer	3
ART 218	Foundations: Site/Matrix	3
ART 219	Foundations: Frame/Time	3
ART 298	Foundations Review: BFA	1
ART 201	History of Art	3
ART 202	History of Art	3
ART 389	20th Century Art	3
or ART 464	History of Modern Design	
ART History Elective 404, 408 409, 410, 411, 413, 414, 415, 416, 424)		
ART 390	Professional Practice	3
ART 497	Capstone Studio	3
ART 498	Senior Capstone Exhibition BFA	3
300/400 Studio course		3
300/400 Studio course		3
300/400 Studio course		3
300/400 Studio course		3
300/400 Studio course		3
300/400 Studio course		3
300/400 Studio course		3
300/400 Studio course		3
300/400 Studio course		3
300/400 Studio course		3
Elective Outside of Major		3
Elective Outside of Major		3
Elective Outside of Major		3
Elective Outside of Major		3
Elective Outside of Major		1

School of Journalism and Mass Communications

The W. Page Pitt School of Journalism and Mass Communications' programs and curriculum are based in the conviction that future journalists and mass communicators are best prepared for life and for their careers when they are broadly educated in the liberal arts. The importance of preparing them for the demands of the workplace and an industry that experiences change rapidly is recognized as well.

Knowledge and skills essential to success in journalism and mass communications are emphasized, with the aim of preparing students for full participation, including leadership, in their professions. In addition, the school's program seeks to promote knowledge and awareness about mass communications among students who do not intend to pursue careers in one of the mass communications fields.

Students in journalism and mass communications majors will learn

1. how to gather, write, edit, package, and present information and entertainment in a multimedia context;
2. how the field of mass communications changes and evolves and how to adapt accordingly;
3. how to make responsible and effective decisions; and
4. the roles, effects, and impacts of mass communications in society.

The school offers a Bachelor of Arts degree in three majors:

- advertising/public relations, with emphases in advertising or public relations;
- journalism, with emphases in broadcast, multimedia, or sports;
- media production, with emphases in radio/television production and management or in video production.

Professionally oriented courses and laboratory experiences are combined with extensive liberal arts preparation to provide students with the background necessary for employment in mass communications. The program is accredited by the Accrediting Council on Education in Journalism and Mass Communications.

Of the 120 credit hours required for the bachelor's degree, students must have a minimum of 72 non-journalism hours and 48 journalism and mass communications hours, and they must meet the liberal arts and sciences requirements of the university.

Majors must also satisfy the following requirements:

1. Students must have typing keyboard proficiency for many JMC courses.
2. Students must pass a language proficiency exam, or pass JMC 100 Fund Jrn Writing & Edit with a C or better, or pass JMC 103 Language Use for Media with a CR, or have an ACT verbal score of 30 or better or SAT verbal scores of 650 or better, for graduation and before admission to any 300/400 level JMC courses.
3. A minimum Grade Point Average of 2.25 in required journalism and mass communications courses and a 2.25 overall is required for graduation.
4. A student who receives a D or F in a journalism and mass communications course counted toward graduation must repeat it and earn at least a C before graduation or before using that course as a prerequisite for another required journalism and mass communications course.
5. At least 42 hours of credit toward the B.A. must be in courses numbered 300-499. Courses transferred from two-year or community colleges cannot be used to satisfy this requirement. Courses taken at four-year accredited colleges transfer at the level at which they were taken.
6. Graduating seniors are required to submit for review by faculty a portfolio of selected works they have completed in the program. Students should consult with their advisers for specific guidelines on portfolio development.

Transfer Students

Because of the standards of the school's accrediting body, students transferring into the school from two-year institutions are restricted to using 12 hours of transfer credit in journalism and mass communications toward the 120 credit hours required for the B.A. Further, the transferred JMC hours must be at the 100 and 200 levels, with the exception of JMC 330 AD-PR Principles and Ethics.

Transfer students, including those transferring from other units at Marshall, must have a 2.0 (*C*) average and no academic deficiencies in math and English.

Minors

Non-Journalism and Mass Communications majors may select from one of four, 15-hour minors within the school as follows:

- Advertising
- Journalism
- Public Relations
- Media Studies

Regents, B.A.

Students in the Regents B.A. program are allowed no more than 12 hours of journalism and mass communications credit through presentation of a portfolio. If a student did not receive portfolio credit for particular journalism courses, he or she may register for them and receive credit upon successful completion of course requirements.

Programs

- Advertising, Minor (p. 133)
- Advertising/Public Relations, Major (p. 133)
- Journalism, Major (p. 137)
- Journalism, Minor (p. 142)
- Media Production, Major (p. 142)
- Media Studies, Minor (p. 146)
- Public Relations, Minor (p. 146)

Courses

- General Education Course

JMC 100 Fund Jrn Writing & Edit **3 Credit hours**
Preparatory course to develop writing and editing skills specifically as related to professional journalism and mass communication. Required if score is less than 77 on School-administered language-skills test. Not counted toward graduation. Preparatory course to develop writing and editing skills specifically as related to professional journalism and mass communication. Required if score is less than 77 on School-administered language-skills test. Not counted toward graduation.
Grade Mode: Normal Grading Mode

JMC 101 Media Literacy **3 Credit hours**
Examines structures and functions of mass media and newspapers, magazines, broadcast journalism, broadcasting, advertising and public relations. Designed to provide a critical overview of the mass media. Includes guest speakers. Examines structures and functions of mass media and newspapers, magazines, broadcast journalism, broadcasting, advertising and public relations. Designed to provide a critical overview of the mass media. Includes guest speakers.
Attributes: Core II Humanities, No Textbook Required
Grade Mode: Normal Grading Mode

JMC 102 Media Toolbox **3 Credit hours**
Introduction to media writing, creative and critical thinking, information literacy, data management, computer search tools, social media and interviewing for mass communications professionals.
Grade Mode: Normal Grading Mode

JMC 103 Language Use for Media **1 Credit hour**
Review of English grammar and usage; preparation for taking SOJMC standard language exam.
Grade Mode: Credit/No Credit Grade Only

JMC 201 News Writing I **3 Credit hours**
Techniques of cross media news writing designed to develop basic skills necessary for beginning reporters and public relations professionals through in-class laboratoy experience. . Techniques of cross media news writing designed to develop basic skills necessary for beginning reporters and public relations professionals through in-class laboratoy experience. .
Pre-req: JMC 101 with a minimum grade of C and JMC 102 with a minimum grade of C.
Grade Mode: Normal Grading Mode

JMC 221 Advertising/Continuity Writing **3 Credit hours**
Introduction to advertising and broadcast copy writing. Includes strategy, script formats, persuasion, styles of writing, editing, and industry organization, structures and standards. Many writing assignments. Introduction to advertising and broadcast copy writing. Includes strategy, script formats, persuasion, styles of writing, editing, and industry organization, structures and standards. Many writing assignments.
Pre-req: JMC 101 with a minimum grade of C and JMC 102 with a minimum grade of C.
Grade Mode: Normal Grading Mode

JMC 222 Introduction to Media Studies **3 Credit hours**
This course provides students with an overview of fundamental approaches, theories, and perspectives essential to successfully complete a minor in media studies.
Grade Mode: Normal Grading Mode

JMC 230 General Photography **3 Credit hours**
An introduction to still digital photography and image processing.
Grade Mode: Normal Grading Mode

JMC 231 Intro to Audio Production **3 Credit hours**
Fundamentals of audio production, including operation of audio equipment, microphone techniques, tape editing and audio production. Laboratory work at WMUL-FM is required. (PR: JMC 101) Fundamentals of audio production, including operation of audio equipment, microphone techniques, tape editing and audio production. Laboratory work at WMUL-FM is required. (PR: JMC 101)
Pre-req: JMC 101 with a minimum grade of C.
Grade Mode: Normal Grading Mode

JMC 235 Intro to Sports Journalism **3 Credit hours**
Introduction to Sports Journalism involves applying the core principles of journalism (honesty, accuracy, clarity, fairness, accountability) to covering any sports related activity.
Pre-req: JMC 101 with a minimum grade of C.
Grade Mode: Normal Grading Mode

JMC 241 Media Design **3 Credit hours**
Design principles; conceive, create and evaluate executions for print, websites, mobile applications, information-based and ad based graphics. (PR: Keyboarding proficiency)
Attributes: Digital Humanities, No Textbook Required
Grade Mode: Normal Grading Mode

JMC 245 Intro to Strategic Comm **3 Credit hours**
An examination of theories, practices and techniques of strategic communications used by agencies and organizations.
Grade Mode: Normal Grading Mode

JMC 260 Digital Imaging for JMC **3 Credit hours**
Methods of taking and editing still and video digital images for print, broadcast, and digital publication.
Attributes: Digital Humanities
Grade Mode: Normal Grading Mode

JMC 272 Practice in Radio **1 Credit hour**
Staff responsibility on campus broadcast facilities, WMUL-FM. (PR: Written permission before registration and the satisfactory completion of one year of service on WMUL) Staff responsiblity on campus broadcast facilities, WMUL-FM. (PR: Written permission before registration and the satisfactory completion of one year of service on WMUL)
Grade Mode: Normal Grading Mode

JMC 273 Practice in Radio **1 Credit hour**
Staff responsiblity on campus broadcast facilities, WMUL-FM. (PR: Written permission before registration and the satisfactory completion of one year of service on WMUL) Staff responsiblity on campus broadcast facilities, WMUL-FM. (PR: Written permission before registration and the satisfactory completion of one year of service on WMUL)
Attributes: No Textbook Required
Grade Mode: Normal Grading Mode

JMC 280 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

JMC 300 Reporting and News Writing **3 Credit hours**
Techniques of cross media news writing designed to develop basic skills necessary for beginning reporters and public relations professionals through in-class laboratory experience.
Pre-req: JMC 101 with a minimum grade of C and JMC 102 with a minimum grade of C.
Grade Mode: Normal Grading Mode

JMC 301 Beat Reporting **3 Credit hours**
Practice in gathering and writing news. Emphasis placed on beat assignment reporting, interviewing techniques, and specialized reporting. A laboratory class in which students write for student media. (PR: JMC 102, 300)
Pre-req: JMC 102 with a minimum grade of C and (JMC 300 with a minimum grade of C or JMC 201 with a minimum grade of C).
Grade Mode: Normal Grading Mode

JMC 302 Advanced Editing & Design **3 Credit hours**
Advanced course in newspaper copy editing, headline writing and design for daily, community and public relations newspapers. Laboratory instruction and experience on the printed and online issues of the university newspaper, The Parthenon. Advanced course in newspaper copy editing, headline writing and design for daily, community and public relations news- papers. Laboratory instruction and experience on the printed and online issues of the university newspaper, The Parthenon.
Pre-req: JMC 301 with a minimum grade of C and JMC 241 with a minimum grade of C.
Grade Mode: Normal Grading Mode

JMC 303 Sports News Reporting **3 Credit hours**
In-depth news reporting on the sports beat, breaking news and analysis. In-depth news reporting on the sports beat, breaking news and analysis.
Pre-req: JMC 201 with a minimum grade of C.
Grade Mode: Normal Grading Mode

JMC 305 Copy Editing **3 Credit hours**
Copy editing for newspapers, magazines and online, with emphasis on finding and correcting errors of fact, grammar, spelling. AP style; writing headlines; selecting and placing stories in publications.
Pre-req: JMC 300 with a minimum grade of C.
Grade Mode: Normal Grading Mode

JMC 321 Sportscasting **3 Credit hours**
A "hands-on" course designed to develop announcing, interviewing and writing skills specifically as such skills relate to play-by-play techniques and practices.
Pre-req: JMC 101 and JMC 231.
Grade Mode: Normal Grading Mode

JMC 330 AD-PR Principles and Ethics **3 Credit hours**
An examination of advertising and public relations theories and practices used by organizations across all sectors of society. Special emphasis on the role of ethics in advertising and public relations.
Grade Mode: Normal Grading Mode

JMC 331 Radio-TV Announ & Newscasting **3 Credit hours**
Specialized training in the interpretive skills of announcing and newscasting.
Pre-req: JMC 101.
Grade Mode: Normal Grading Mode

JMC 332 Intro to Video Production **3 Credit hours**
Introduction to the fundamentals of video production, dealing with cameras, microphones, lighting, staging, field Production, editing, post production.
Pre-req: JMC 101 with a minimum grade of C.
Grade Mode: Normal Grading Mode

JMC 340 Basic Broadcast News **3 Credit hours**
Introduction and overview of electronic journalism. Emphasis on broadcast writing. Students will report for Newscenter 88 WMUL-FM. Introduction and overview of electronic journalism. Emphasis on broadcast writing. Students will report for Newscenter 88 WMUL-FM.
Pre-req: JMC 102 with a minimum grade of C.
Grade Mode: Normal Grading Mode

JMC 345 Mass Comm Law and Ethics **3 Credit hours**
A cross-media overview combining study of legal concepts important to the media practitioner, ethical conflicts encountered, and application of legal precedents and ethical principles.
Pre-req: (JMC 103 with a minimum grade of C or JMC 100 with a minimum grade of C) and (JMC 201 with a minimum grade of C or JMC 221 with a minimum grade of C or JMC 300 with a minimum grade of C or JMC 380 with a minimum grade of C).
Grade Mode: Normal Grading Mode

JMC 361 Digital Presence **3 Credit hours**
Digital strategies in news and strategic communication contexts including digital presence and content development; ethical issues, and best practices.
Attributes: Digital Humanities, No Textbook Required
Grade Mode: Normal Grading Mode

JMC 372 Practice in Radio or TV **1-2 Credit hours**
Staff responsibility on campus broadcast facilities WMUL-FM or WPBY TV. Staff responsibility on campus broadcast facilities WMUL-FM or WPBY TV.
Grade Mode: Normal Grading Mode

JMC 373 Practice in Radio or TV **1-2 Credit hours**
Staff responsibility on campus broadcast facilities WMUL-FM or WPBY TV. Staff responsibility on campus broadcast facilities WMUL-FM or WPBY TV.
Attributes: No Textbook Required
Grade Mode: Normal Grading Mode

JMC 380 AD-PR and Continuity Writing **3 Credit hours**
Crafting of multimedia content for advertising-public relations and broadcast continuity with attention to communications strategy development, script formats and writing styles for traditional, digital and social media.
Pre-req: JMC 330 with a minimum grade of C or MKT 340 with a minimum grade of C.
Grade Mode: Normal Grading Mode

JMC 383 Content Creation **3 Credit hours**
Concept-driven media design with an emphasis on digital media. (PR: JMC 241)
Pre-req: JMC 241 with a minimum grade of C.
Grade Mode: Normal Grading Mode

JMC 385 Advertising Media Plan **3 Credit hours**
Planning and practice in allocating advertising budgets in the mass media to effectively reach the target audiences at the most reasonable cost. Planning and practice in allocating advertising budgets in the mass media to effectively reach the target audiences at the most reasonable cost.
Pre-req: JMC 245 or MKT 341.
Grade Mode: Normal Grading Mode

JMC 390 Media Sales & Underwriting **3 Credit hours**
Introduction to business side of mass media with emphasis on sales in television and radio; consideration of competing media; differences between commercial and public braodcasting; and the elements of underwriting. Introduction to business side of mass media with emphasis on sales in television and radio; consideration of competing media; differences between commercial and public braodcasting; and the elements of underwriting.
Grade Mode: Normal Grading Mode

JMC 400 Digital Imaging II **3 Credit hours**
Advanced methods of taking and editing still and video images for print broadcast, and online publications. A course in advanced techniques for newspaper and magazine photography, concentrating on creation, design and use of photo essays and picture stories. (PR: JRN 360)
Pre-req: JMC 260 with a minimum grade of D or ART 315 with a minimum grade of D.
Grade Mode: Normal Grading Mode

JMC 402 Law of Mass Communication **3 Credit hours**
A cross-media overview of the legal concepts important to the media professional with special focus on the roles, rights and responsibilities of those individuals. A cross-media overview of the legal concepts important to the media professional with special focus on the roles, rights and responsibilities of those individuals.
Attributes: No Textbook Required
Grade Mode: Normal Grading Mode

JMC 404 Hist Am JRN & Mass Comm **3 Credit hours**
The development of the press in the United States, the contributions of American journalists, the rise of radio and television, and the relation of communications developments to political, economic and social trends in America. The development of the press in the United States, the contributions of American journalists, the rise of radio and television, and the relation of communications developments to political, economic and social trends in America.
Grade Mode: Normal Grading Mode

JMC 406 Creative Branding **3 Credit hours**
Creative direction in developing the personality, reputation, appearance and character of a great brand consistent in all aspects.
Pre-req: JMC 241 with a minimum grade of C or MKT 340 with a minimum grade of C.
Grade Mode: Normal Grading Mode

JMC 408 Research Analytics **3 Credit hours**
Introduction to methods and tools used to monitor, inform and evaluate advertising-public relations decisions including applications of research methods and digital analytics.
Grade Mode: Normal Grading Mode

JMC 410 Magazine Editorial Prac **3 Credit hours**
Study of the organization and functions of the magazine editorial department, with practice in planning magazine content, laying out pages and establishing production procedures. Study of the organization and functions of the magazine editorial department, with practice in planning magazine content, laying out pages and establishing production procedures.
Pre-req: JRN 241 or JMC 241.
Grade Mode: Normal Grading Mode

JMC 414 Reporting Public Affairs **3 Credit hours**
Advanced instruction in cross media reporting local, state, and federal government; politics, finance, and labor; social and environmental issues, with emphasis on background and interpretation. Course includes field trips and guest speakers. (PR: JMC 301) Advanced instruction in cross media reporting local, state, and federal government; politics, finance, and labor; social and environmental issues, with emphasis on background and interpretation. Course includes field trips and guest speakers. (PR: JMC 301)
Pre-req: JMC 301 with a minimum grade of C.
Grade Mode: Normal Grading Mode

JMC 415 Content Strategy **3 Credit hours**
Students will analyze advertising-public relations content problems, propose strategic solutions, create content and present strategies. Students will write, design and produce content for a variety of media. PR: JMC 380, 383
Pre-req: JMC 380 with a minimum grade of D and JMC 383 with a minimum grade of D.
Grade Mode: Normal Grading Mode

JMC 417 Advanced Digital Filmmaking **3 Credit hours**
Students will learn advanced concepts, theories and skills in digital narrative film production. Working through all phases of production, students will create an original short film from script to screening. PR: JMC 332
Pre-req: JMC 332 with a minimum grade of D.
Grade Mode: Normal Grading Mode

JMC 420 Electronic Media Mgt **3 Credit hours**
Covers special circumstances faced by electronic media managers including programming, legal constraints, employment practices, technologocal developments, social pressures, impact of the Internet and other concerns. Covers special circumstances faced by electronic media managers including programming, legal constraints, employment practices, technologocal developments, social pressures, impact of the Internet and other concerns.
Attributes: Capstone Course
Grade Mode: Normal Grading Mode

JMC 424 Media Strategy **3 Credit hours**
Focuses on the delivery of advertising-public relations messages with attention to the development of audience personas, content management and analytics for traditional, digital and social media. PR: JMC 330 or MKT 340.
Pre-req: JMC 330 with a minimum grade of C or MKT 340 with a minimum grade of C or JMC 245 with a minimum grade of C.
Grade Mode: Normal Grading Mode

JMC 430 Magazine Article Writing **3 Credit hours**
Fundamentals of researching and writing the popular, factual magazine article; techniques of selling articles to magazines. Fundamentals of researching and writing the popular, factual magazine article; techniques of selling articles to magazines.
Grade Mode: Normal Grading Mode

JMC 432 AD-PR Video Production **3 Credit hours**
Students will create and produce various informational, promotional, and training video for companies and organizations. Students will learn to make and critique AD-PR videos that inform, persuade, and entertain. PR: JMC 260
Pre-req: JMC 260.
Grade Mode: Normal Grading Mode

JMC 434 Advanced Video **3 Credit hours**
Development of the elements necessary for the production of detailed video projects. Students study the creation and production of public affairs, educational and creative video programming. (PR: JMC 332) Development of the elements necessary for the production of detailed video projects. Students study the creation and production of public affairs, educational and creative video programming. (PR: JMC 332)
Pre-req: JMC 332.
Grade Mode: Normal Grading Mode

JMC 436 International Mass Comm **3 Credit hours**
Development of various systems of mass communications and comparison with the United States. Development of various systems of mass communications and comparison with the United States.
Attributes: International
Grade Mode: Normal Grading Mode

JMC 437 Public Relations Planning **3 Credit hours**
Public relations planning, writing, and pitching of strategies and tactics to clients. (PR: JMC 241, 300, 330, 380, 408)
Pre-req: JMC 241 with a minimum grade of C and JMC 300 with a minimum grade of C and JMC 330 with a minimum grade of C and JMC 380 with a minimum grade of C and JMC 408 with a minimum grade of C.
Grade Mode: Normal Grading Mode

JMC 438 Public Relations Case Studies **3 Credit hours**
Examination of the handling of public relations problems and opportunities by business, educational, governmental, and social organizations, with particular emphsis on public relatins analysis and problem solving. (PR: JRN 330) Examination of the handling of public relations problems and opportunities by business, educational, governmental, and social organizations, with particular emphsis on public relatins analysis and problem solving. (PR: JRN 330)
Pre-req: JMC 330 with a minimum grade of C.
Grade Mode: Normal Grading Mode

JMC 439 AD-PR Campaign Management **3 Credit hours**
Students function as an AD-PR firm that researches, plans, implements, and evaluates advertising and public relations campaigns for clients. Capstone experience. (PR: JMC 330, 380, 383, 408, and either 406, 415, 424 (AD) or 301, 437, 438 (PR))
Pre-req: JMC 241 with a minimum grade of C and (JMC 330 with a minimum grade of C or MKT 341 with a minimum grade of C) and (JMC 201 with a minimum grade of C or JMC 221 with a minimum grade of C or JMC 300 with a minimum grade of C or JMC 380 with a minimum grade of C) and (JMC 385 with a minimum grade of C or JMC 415 with a minimum grade of C or JMC 424 with a minimum grade of C) and (JMC 301 with a minimum grade of C or JMC 437 with a minimum grade of C or JMC 438 with a minimum grade of C).
Attributes: Capstone Course, No Textbook Required
Grade Mode: Normal Grading Mode

JMC 440 Mass Comm Ethics **3 Credit hours**
Study of basic concepts underlying contemporary American mass communications operations and practices and how those concepts affect professional ethics in the field. Examination of ethical conflicts encountered and appliction of ethical principles when determining solutions. Study of basic concepts underlying contemporary American mass communications operations and practices and how those concepts affect professional ethics in the field. Exam- ination of ethical conflicts encountered and appliction of ethical principles when determining solutions.
Attributes: Capstone Course
Grade Mode: Normal Grading Mode

JMC 450 Contemp Issues Radio-TV **3 Credit hours**
An examination of the current political, social, economic and legal issues affecting the decision making process in the newsrooms and programming centers of the electronic media. (PR: jr standing) An examination of the current political, social, economic and legal issues affecting the decision making process in the newsrooms and programming centers of the electronic media. (PR: jr standing)
Grade Mode: Normal Grading Mode

JMC 451 Television Reporting **3 Credit hours**
Students report, shoot, edit, write, produce and anchor MU Report, a student-produced newscast. The class makes use of university broadcast facilities and West Virginia Public Television as available. PR: JMC 301 Students report, shoot, edit, write, produce and anchor MU Report, a student-produced newscast. The class makes use of university broadcast facilities and West Virginia Public Television as available. PR: JMC 301
Pre-req: JMC 301 (may be taken concurrently).
Concurrent PR: JMC 301
Grade Mode: Normal Grading Mode

JMC 452 Advanced TV Reporting **3 Credit hours**
Students report, shoot, edit, write, produce and anchor MU Report, a student-produced newscast, on an advanced level. The class makes use of university broadcast facilities and West Virginia Public Television as available. PR: JMC 451 Students report, shoot, edit, write, produce and anchor MU Report, a student-produced newscast, on an advanced level. The class makes use of university broadcast facilities and West Virginia Public Television as available. PR: JMC 451
Pre-req: JMC 451.
Grade Mode: Normal Grading Mode

JMC 455 Race Gender & Mass Media **3 Credit hours**
A seminar that explores the portrayals and participation of women and people of color in the mass media. A seminar that explores the portrayals and participation of women and people of color in the mass media.
Grade Mode: Normal Grading Mode

JMC 458 Emerging Media for Journalists **3 Credit hours**
Students will demonstrate uses of emerging media for journalistic purposes, focusing on social networks and conversational media with associated digital media tools and platforms. PR: JMC 301
Pre-req: JMC 301 with a minimum grade of D.
Grade Mode: Normal Grading Mode

JMC 462 Web Design for Mass Media **3 Credit hours**
Creative and practical aspects of typography, design and interactivity of online communications for the mass media. Creative and practical aspects of typography, design and interactivity of online communications for the mass media.
Pre-req: JMC 241.
Attributes: Digital Humanities
Grade Mode: Normal Grading Mode

JMC 465 Multimedia Reporting **3 Credit hours**
An advanced laboratory reporting class in which students, in teams and individually, produce multimedia stories including audio, video, still photos, text and graphics for publication. PR: JMC 260 and 301 (Capstone)
Pre-req: JMC 260 with a minimum grade of C and JMC 301 with a minimum grade of C.
Attributes: Capstone Course
Grade Mode: Normal Grading Mode

JMC 468 Environmental Mass Comm **3 Credit hours**
Identifying, analyzing and discussing issues that challenge environmental communications, strategizing the creation of comprehensible environmental messages, and examinging philosophies that underpin environmental communications.
Grade Mode: Normal Grading Mode

JMC 470 Professional Practicum **1-4 Credit hours**
Instruction to assist students in meeting career expectations. Short-term courses designed to bridge instructional programs and practices of professional journalism. Students may participate in supervised publications work in reporting, editing and advertising. Instruction to assist students in meeting career expecta- tions. Short-term courses designed to bridge instructional programs and practices of professional journalism. Students may participate in supervised publications work in reporting, editing and advertising.
Attributes: No Textbook Required
Grade Mode: Normal Grading Mode

JMC 475 Documentary Journalism **3 Credit hours**
Students will view, critique and evaluate the genres of nonfiction storytelling. Students will produce an original 15-minute film to be screened to the public. Students will view, critique and evaluate the genres of nonfiction storytelling. Students will produce an original 15-minute film to be screened to the public.
Pre-req: (JMC 260 with a minimum grade of C or JMC 360 with a minimum grade of C) and (JMC 201 with a minimum grade of C or JMC 221 with a minimum grade of C or JMC 300 with a minimum grade of C or JMC 380 with a minimum grade of C) and (JMC 260 with a minimum grade of C or JMC 360 with a minimum grade of C or JMC 332 with a minimum grade of C or JMC 432 with a minimum grade of C).
Attributes: No Textbook Required
Grade Mode: Normal Grading Mode

JMC 480 Special Topics **1-4 Credit hours**
Independent or group studies or projects in areas of interest to the student and conducted under the direction of a faculty member. Course may be taught by arrangement. Includes regular meetings with the instructor for advice and direction. Projects and studies may include mass communication research studies or special group field projects. Professors are assigned based on their proficiency in the area of study or field report. Independent or group studies or projects in areas of interest to the student and conducted under the direction of a faculty member. Course may be taught by arrangement. Includes regular meetings with the instructor for advice and direction. Projects and studies may include mass communication research studies or special group field projects. Professors are assigned based on their proficiency in the area of study or field report.
Attributes: No Textbook Required
Grade Mode: Normal Grading Mode

JMC 481 Special Topics **1-4 Credit hours**
Independent or group studies or projects in areas of interest to the student and conducted under the direction of a faculty member. Course may be taught by arrangement. Includes regular meetings with the instructor for advice and direction. Projects and studies may include mass communication research studies or special group field projects. Professors are assigned based on their proficiency in the area of study or field report. Independent or group studies or projects in areas of interest to the student and conducted under the direction of a faculty member. Course may be taught by arrangement. Includes regular meetings with the instructor for advice and direction. Projects and studies may include mass communication research studies or special group field projects. Professors are assigned based on their proficiency in the area of study or field report.
Grade Mode: Normal Grading Mode

JMC 485 Independent Study **1-4 Credit hours**
Grade Mode: Normal Grading Mode

JMC 486 Independent Study **1-4 Credit hours**
Grade Mode: Normal Grading Mode

JMC 487 Independent Study **1-4 Credit hours**
Grade Mode: Normal Grading Mode

JMC 488 Independent Study **1-4 Credit hours**
Grade Mode: Normal Grading Mode

JMC 490 Jrn & Mass Comm Internship I **1-3 Credit hours**
Supervised journalistic work with professional media including newspapers, magazines, radio, television, advertising, and public relations departments and agencies. Conferences with instructor for guidance and evaluation. Arrangements must be made with the School of Journalism internship director before enrollment. Supervised journalistic work with professional media including newspapers, magazines, radio, television, adver- tising, and public relations departments and agencies. Conferences with instructor for guidance and evaluation. Arrangements must be made with the School of Journalism internship director before enrollment.
Attributes: No Textbook Required
Grade Mode: Normal Grading Mode

JMC 491 Jrn & Mass Comm Intern II **1-3 Credit hours**
Supervised journalistic or mass communications work with professional media including newspapers, magazines, radio, television, advertising and public relations departments or agencies. Students must have completed a previous internship. (PR: Permission and JMC 490) Supervised journalistic or mass communications work with professional media including newspapers, magazines, radio, television, advertising and public relations departments or agencies. Students must have completed a previous internship. (PR: Permission and JMC 490)
Pre-req: JMC 490 with a minimum grade of D.
Attributes: No Textbook Required
Grade Mode: Normal Grading Mode

Advertising, Minor

Code	Title	Credit Hours
JMC 330	AD-PR Principles and Ethics	3
JMC 380	AD-PR and Continuity Writing	3
JMC 415	Content Strategy	3
Select two of the following:		6
JMC 241	Media Design	
JMC 383	Content Creation	
JMC 424	Media Strategy	
JMC 408	Research Analytics	
JMC 439	AD-PR Campaign Management	
Total Credit Hours		**15**

Advertising/Public Relations, Major

Areas of Emphasis

- Advertising, Emphasis (p. 133)
- Public Relations, Emphasis (p. 135)

Advertising, Emphasis

- General Education Course

- Milestone course: a key success marker for your major. See your advisor to discuss the importance of this course in your plan of study.

Major

The Core Curriculum is designed to foster critical thinking skills and introduce students to basic domains of thinking that transcend disciplines. The Core applies to all majors. Information on specific classes in the Core can be found at https://www.marshall.edu/gened/.

Code	Title	Credit Hours
Core Curriculum		
Core 1: Critical Thinking		
FYS 100	First Yr Sem Critical Thinking	3
Critical Thinking		3
Critical Thinking		3
Core 2		
ENG 101	Beginning Composition	3
ENG 201	Advanced Composition	3
CMM 103	Fund Speech-Communication	3
Core II Mathematics		3
Core II Natural/Physical Science		4
Core II Humanities		3
Core II Social Science		3
Core II Fine Arts		3
Additional University Requirements		
Writing Intensive		3
Writing Intensive		3
International or Multicultural		3
JMC 439	AD-PR Campaign Management (Capstone)	3
Major Requirements		
Modern Language		3
Modern Language		3
Select one of the following Cultural courses:		3
ANT 201	Cultural Anthropology (CT)	
SOC 200	Introductory Sociology (CT)	
GEO 100	Intro to Human Geography (CT)	
Muticultural		3
International [1]		3
History Elective		3
Literature Elective		3
Literature Elective		3
JMC 101	Media Literacy	3
JMC 102	Media Toolbox	3
JMC 103	Language Use for Media	1
JMC 241	Media Design	3
JMC 260	Digital Imaging for JMC	3
JMC 345	Mass Comm Law and Ethics	3
JMC 361	Digital Presence	3
JMC 470/490	Professional Practicum (Internship)	1-4
Area of Emphasis-Specific		
JMC 330	AD-PR Principles and Ethics	3
JMC 380	AD-PR and Continuity Writing	3

JMC 383	Content Creation	3
JMC 408	Research Analytics	3
JMC 439	AD-PR Campaign Management	3
JMC Elective 300/400		3
JMC 415	Content Strategy	3
JMC 424	Media Strategy	3
JMC Elective 300/400		3
MKT 340	MKT Concepts and Applications	3
Any other business course		3
Non-JMC elective		3
Non-JMC elective		3

[1] Not JMC 436 International Mass Comm

Major Information

- All journalism and mass communications majors must pass a language proficiency exam before admission to any JMC courses at the 300/400 level. The language proficiency requirement may also be met by completing JMC 100 Fund Jrn Writing & Edit with a *C* or better **or** by completing JMC 103 Language Use for Media with a *C* or better. ACT verbal scores of 30 or better or SAT verbal scores of 650 or better may be used in place of the exam.
- No more than 4 hours of non-JMC electives may be completed in PEL.
- All SOJMC majors must complete 3 credit hours of internship. Ideally, internships should be completed during the summer between the junior and senior years. To ensure your work is properly credited, you must work through the internship director.
  - Submit a complete internship application.
  - Secure approval of the employment or other work.
  - Get permission to enroll in JMC 490 Jrn & Mass Comm Internship I , JMC 491 Jrn & Mass Comm Intern II or JMC 470 Professional Practicum.
  - Maintain weekly contact, attend scheduled meetings and submit a final report and a portfolio.

- General Education Course

- Milestone course: a key success marker for your major. See your advisor to discuss the importance of this course in your plan of study.

Four Year Plan

Careers in journalism and mass communications are increasingly multilayered as technology and new media outlets spur fresh job titles and responsibilities in social media, web management, multimedia, video production, and data analysis in addition to traditional positions. Majors in SOJMC are configured to reflect new realities of the industry, provide a foundation for all JMC fields that then fan into specializations. This emphasis prepares students to create ads, plan and execute media buys, and complete campaigns. Advertising trains students for agency positions but many graduates work for small businesses, corporations and their own enterprises. Students will learn how to publicize products and services for companies and organizations by employing skills in writing, designing and planning.

Course	Title	Credit Hours
First Year		
First Semester		
FYS 100	First Yr Sem Critical Thinking	3
JMC 101	Media Literacy	3
JMC 103	Language Use for Media	1
CMM 103	Fund Speech-Communication	3
ENG 101	Beginning Composition	3
Core II Fine Arts		3
UNI 100	Freshman First Class	1
	Credit Hours	**17**
Second Semester		
Core II Mathematics		3
JMC 102	Media Toolbox	3
JMC 241	Media Design	3
Core I Critical Thinking		3
Core II Social Science		3
	Credit Hours	**15**
Second Year		
First Semester		
JMC 330	AD-PR Principles and Ethics	3
JMC 380	AD-PR and Continuity Writing	3
ENG 201	Advanced Composition	3
Core I Critical Thinking		3
Core II Physical/Natural Science		4
	Credit Hours	**16**
Second Semester		
JMC 260	Digital Imaging for JMC	3
Select one of the following:		3
ANT 201	Cultural Anthropology (CT)	
SOC 200	Introductory Sociology (CT)	
GEO 100	Intro to Human Geography (CT) (Writing Intensive)	
Writing Intensive		3
Literature Elective		3
History Elective		3
	Credit Hours	**15**
Third Year		
First Semester		
JMC 383	Content Creation	3
JMC 408	Research Analytics	3
Any Additional Business Course		3
Literature Elective (WI)		3
Any Modern Language		3
	Credit Hours	**15**
Second Semester		
JMC 424	Media Strategy	3
JMC Elective 300/400		3
MKT 340	MKT Concepts and Applications	3
Multicultural		3

Any Modern Language		3
	Credit Hours	**15**
Fourth Year		
First Semester		
JMC 361	Digital Presence	3
JMC 415	Content Strategy	3
JMC Elective 300/400		3
Non-JMC Elective		3
JMC 490	Jrn & Mass Comm Internship I (if not taken during summer) [2]	3
	Credit Hours	**15**
Second Semester		
JMC 345	Mass Comm Law and Ethics	3
JMC 439	AD-PR Campaign Management	3
International [1]		3
Non-JMC Elective 300/400		3
	Credit Hours	**12**
	Total Credit Hours	**120**

[1] Not JMC 436 International Mass Comm
[2] JMC 490 Jrn & Mass Comm Internship I recommended summer between semesters 6 & 7 (3 hours).

Public Relations, Emphasis

- General Education Course

- Milestone course: a key success marker for your major. See your advisor to discuss the importance of this course in your plan of study.

Major

The Core Curriculum is designed to foster critical thinking skills and introduce students to basic domains of thinking that transcend disciplines. The Core applies to all majors. Information on specific classes in the Core can be found at https://www.marshall.edu/gened/.

Code	Title	Credit Hours
Core Curriculum		
Core 1: Critical Thinking		
FYS 100	First Yr Sem Critical Thinking	3
Critical Thinking		3
Critical Thinking		3
Core 2		
ENG 101	Beginning Composition	3
ENG 201	Advanced Composition	3
CMM 103	Fund Speech-Communication	3
Core II Mathematics		3
Core II Natural/Physical Science		4
Core II Humanities		3
Core II Social Science		3
Core II Fine Arts		3
Additional University Requirements		
Writing Intensive		3
Writing Intensive		3
International or Multicultural		3
JMC 439	AD-PR Campaign Management (Capstone)	3
Major Requirements		
Modern Language		3
Modern Language		3
Select one of the following Cultural courses:		3
ANT 201	Cultural Anthropology (CT)	
SOC 200	Introductory Sociology (CT)	
GEO 100	Intro to Human Geography (CT)	
Muticultural		3
International [1]		3
History Elective (M/I)		3
Literature Elective		3
Literature Elective		3
JMC 101	Media Literacy	3
JMC 102	Media Toolbox	3
JMC 103	Language Use for Media	1
JMC 241	Media Design	3
JMC 260	Digital Imaging for JMC	3
JMC 345	Mass Comm Law and Ethics	3
JMC 361	Digital Presence	3
JMC 470/490	Professional Practicum (Internship)	1-4
Area of Emphasis-Specific		
JMC 330	AD-PR Principles and Ethics	3
JMC 380	AD-PR and Continuity Writing	3
JMC 383	Content Creation	3
JMC 408	Research Analytics	3
JMC 439	AD-PR Campaign Management	3
JMC Elective 300/400		3
JMC 300	Reporting and News Writing	3
JMC 437	Public Relations Planning	3
JMC 438	Public Relations Case Studies	3
Any other business course		3
MKT 340	MKT Concepts and Applications	3
Non-JMC elective		3
Non-JMC elective		3
Non-JMC elective		2

[1] Not JMC 436 International Mass Comm

Major Information

- All journalism and mass communications majors must pass a language proficiency exam before admission to any JMC courses at the 300/400 level. The language proficiency requirement may also be met by completing JMC 100 Fund Jrn Writing & Edit with a *C* or better **or** by completing JMC 103 Language Use for Media with a *C* or better. ACT verbal scores of 30 or better or SAT verbal scores of 650 or better may be used in place of the exam.
- No more than 4 hours of non-JMC electives may be completed in PEL.
- All SOJMC majors must complete 3 credit hours of internship. Ideally, internships should be completed during the summer

between the junior and senior years. To ensure your work is properly credited, you must work through the internship director.

- Submit a complete internship application.
- Secure approval of the employment or other work.
- Get permission to enroll in JMC 490 Jrn & Mass Comm Internship I , JMC 491 Jrn & Mass Comm Intern II or JMC 470 Professional Practicum.
- Maintain weekly contact, attend scheduled meetings and submit a final report and a portfolio.

- General Education Course

- Milestone course: a key success marker for your major. See your advisor to discuss the importance of this course in your plan of study.

Four Year Plan

Careers in journalism and mass communications are increasingly multilayered as technology and new media outlets spur fresh job titles and responsibilities in social media, web management, multimedia, video production, and data analysis in addition to traditional positions. Majors in SOJMC are configured to reflect new realities of the industry, provide a foundation for all JMC fields that then fan into specializations. Students in public relations learn how to prepare media releases, publications, speeches, and create how to campaigns. This major is for students who are interested in managing and counseling companies and organizations and building and improving relationships.

Course	Title	Credit Hours
First Year		
First Semester		
FYS 100	First Yr Sem Critical Thinking	3
JMC 101	Media Literacy	3
JMC 103	Language Use for Media	1
CMM 103	Fund Speech-Communication	3
ENG 101	Beginning Composition	3
Core II Fine Arts		3
UNI 100	Freshman First Class	1
	Credit Hours	**17**
Second Semester		
Core II Mathematics		3
JMC 102	Media Toolbox	3
Core I Critical Thinking		3
Core I Critical Thinking		3
Core II Social Science (M/I)		3
	Credit Hours	**15**
Second Year		
First Semester		
JMC 330	AD-PR Principles and Ethics	3
JMC 241	Media Design	3
ENG 201	Advanced Composition	3
Any Modern Language		3
Core II Physical/Natural Science		4
	Credit Hours	**16**
Second Semester		
JMC 260	Digital Imaging for JMC	3
JMC 380	AD-PR and Continuity Writing	3
JMC 300	Reporting and News Writing	3
Any Modern Language		3
Writing Intensive		3
	Credit Hours	**15**
Third Year		
First Semester		
JMC 383	Content Creation	3
JMC 408	Research Analytics	3
JMC 437	Public Relations Planning	3
Any Additional Business Course		3
Literature Elective (WI)		3
	Credit Hours	**15**
Second Semester		
JMC Elective 300/400		3
Select one of the following:		3
ANT 201	Cultural Anthropology (CT)	
SOC 200	Introductory Sociology (CT)	
GEO 100	Intro to Human Geography (CT)	
MKT 340	MKT Concepts and Applications	3
Multicultural		3
Literature Elective		3
	Credit Hours	**15**
Fourth Year		
First Semester		
JMC 438	Public Relations Case Studies	3
JMC 345	Mass Comm Law and Ethics	3
JMC 361	Digital Presence	3
International [1]		3
JMC 490	Jrn & Mass Comm Internship I (if not taken during summer) [2]	3
	Credit Hours	**15**
Second Semester		
JMC 439	AD-PR Campaign Management	3
History Elective		3
Non-JMC Elective		3
Non-JMC Elective		3
	Credit Hours	**12**
	Total Credit Hours	**120**

[1] Not JMC 436 International Mass Comm

[2] JMC 490 Jrn & Mass Comm Internship I recommended summer between semesters 6 & 7 (3 hours).

Journalism, Major

Areas of Emphasis

- Broadcast Journalism, Emphasis (p. 137)
- Multimedia Journalism, Emphasis (p. 138)
- Sports Journalism, Emphasis (p. 140)

Broadcast Journalism, Emphasis

- General Education Course

- Milestone course: a key success marker for your major. See your advisor to discuss the importance of this course in your plan of study.

Major

The Core Curriculum is designed to foster critical thinking skills and introduce students to basic domains of thinking that transcend disciplines. The Core applies to all majors. Information on specific classes in the Core can be found at https://www.marshall.edu/gened/.

Code	Title	Credit Hours
Core Curriculum		
Core 1: Critical Thinking		
FYS 100	First Yr Sem Critical Thinking	3
Critical Thinking		3
Critical Thinking		3
Core 2		
ENG 101	Beginning Composition	3
ENG 201	Advanced Composition	3
CMM 103	Fund Speech-Communication	3
Core II Mathematics		3
Core II Natural/Physical Science		4
Core II Humanities		3
Core II Social Science		3
Core II Fine Arts		3
Additional University Requirements		
Writing Intensive		3
Writing Intensive		3
International and Multicultural		3
JMC 465	Multimedia Reporting	3
Major Requirements		
Modern Language		3
Modern Language		3
Select one of the following Cultural courses:		3
ANT 201	Cultural Anthropology (CT)	
SOC 200	Introductory Sociology (CT)	
GEO 100	Intro to Human Geography (CT)	
Multicultural		3
International [1]		3
History Elective		3
Literature Elective		3
Literature Elective		3
JMC 101	Media Literacy	3
JMC 102	Media Toolbox	3
JMC 103	Language Use for Media	1
JMC 241	Media Design	3
JMC 260	Digital Imaging for JMC	3
JMC 345	Mass Comm Law and Ethics	3
JMC 361	Digital Presence	3
JMC 470/490	Professional Practicum (Internship)	1-4
Area of Emphasis-Specific		
JMC 300	Reporting and News Writing	3
JMC 301	Beat Reporting	3
JMC 458	Emerging Media for Journalists	3
JMC 465	Multimedia Reporting	3
JMC 340	Basic Broadcast News	3
JMC 414	Reporting Public Affairs	3
JMC 451	Television Reporting	3
JMC 452	Advanced TV Reporting	3
JMC Elective 300/400		3
PSC 104	Am Natl Govt & Politics (CT)	3
or PSC 202	State and Local Government	
Non-JMC elective		3
Non-JMC elective		3
Non-JMC elective		3

[1] Not JMC 436 International Mass Comm

Major Information

- All journalism and mass communications majors must pass a language proficiency exam before admission to any JMC courses at the 300/400 level. The language proficiency requirement may also be met by completing JMC 100 Fund Jrn Writing & Edit with a *C* or better **or** by completing JMC 103 Language Use for Media with a *C* or better. ACT verbal scores of 30 or better or SAT verbal scores of 650 or better may be used in place of the exam.
- No more than 4 hours of non-JMC electives may be completed in PEL.
- All SOJMC majors must complete 3 credit hours of internship. Ideally, internships should be completed during the summer between the junior and senior years. To ensure your work is properly credited, you must work through the internship director.
  - Submit a complete internship application.
  - Secure approval of the employment or other work.
  - Get permission to enroll in JMC 490 Jrn & Mass Comm Internship I, JMC 491 Jrn & Mass Comm Intern II or JMC 470 Professional Practicum.
  - Maintain weekly contact, attend scheduled meetings and submit a final report and a portfolio.

- General Education Course

- Milestone course: a key success marker for your major. See your advisor to discuss the importance of this course in your plan of study.

Four Year Plan

Careers in journalism and mass communications are increasingly multilayered as technology and new media outlets spur fresh job titles and responsibilities in social media, web management, multimedia, video production, and data analysis in addition to traditional positions. Majors in SOJMC are configured to reflect new realities of the industry, provide a foundation for all JMC fields that then fan into specializations. An emphasis in broadcast journalism prepares students to report, produce, write, and edit news stories suitable for radio and television. Students gain hands-on experience by producing the campus television news program, MU Report, or by reporting for the campus radio station, WMUL-FM.

Course	Title	Credit Hours
First Year		
First Semester		
FYS 100	First Yr Sem Critical Thinking	3
JMC 101	Media Literacy	3
JMC 103	Language Use for Media	1
CMM 103	Fund Speech-Communication	3
ENG 101	Beginning Composition	3
Fine Arts Elective		3
UNI 100	Freshman First Class	1
	Credit Hours	**17**
Second Semester		
Core II Mathematics		3
JMC 102	Media Toolbox	3
Core I Critical Thinking		3
Core I Critical Thinking		3
Core II Social Science		3
	Credit Hours	**15**
Second Year		
First Semester		
JMC 241	Media Design	3
JMC 300	Reporting and News Writing	3
PSC 104 or PSC 202	Am Natl Govt & Politics (CT) or State and Local Government	3
ENG 201	Advanced Composition	3
Core II Physical/Natural Science		4
	Credit Hours	**16**
Second Semester		
JMC 260	Digital Imaging for JMC	3
JMC 301	Beat Reporting	3
JMC 340	Basic Broadcast News	3
Writing Intensive		3
History Elective		3
	Credit Hours	**15**
Third Year		
First Semester		
JMC 451	Television Reporting	3
JMC Elective 300/400		3
Select one of the following:		3
ANT 201	Cultural Anthropology (CT) (M/I)	
SOC 200	Introductory Sociology (CT) (M/I)	
GEO 100	Intro to Human Geography (CT) (M/I)	
Any Modern Language		3
International [1]		3
	Credit Hours	**15**
Second Semester		
JMC 452	Advanced TV Reporting	3
Any Modern Language		3
Multicultural		3
Literature (WI)		3
Non-JMC Elective		3
	Credit Hours	**15**
Fourth Year		
First Semester		
JMC 361	Digital Presence	3
JMC 458	Emerging Media for Journalists	3
Literature		3
Non-JMC Elective		3
JMC 490	Jrn & Mass Comm Internship I (if not taken during summer) [2]	3
	Credit Hours	**15**
Second Semester		
JMC 345	Mass Comm Law and Ethics	3
JMC 414	Reporting Public Affairs	3
JMC 465	Multimedia Reporting	3
Non-JMC Elective		3
	Credit Hours	**12**
	Total Credit Hours	**120**

[1] Not JMC 436 International Mass Comm

[2] JMC 490 Jrn & Mass Comm Internship I recommended summer between semesters 6 & 7 (3 hours).

Multimedia Journalism, Emphasis

- General Education Course

- Milestone course: a key success marker for your major. See your advisor to discuss the importance of this course in your plan of study.

Major

The Core Curriculum is designed to foster critical thinking skills and introduce students to basic domains of thinking that transcend disciplines. The Core applies to all majors. Information on specific classes in the Core can be found at https://www.marshall.edu/gened/.

Code	Title	Credit Hours
Core Curriculum		
Core 1: Critical Thinking		
FYS 100	First Yr Sem Critical Thinking	3
Critical Thinking		3

Critical Thinking		3
Core 2		
ENG 101	Beginning Composition	3
ENG 201	Advanced Composition	3
CMM 103	Fund Speech-Communication	3
Core II Mathematics		3
Core II Natural/Physical Science		4
Core II Humanities		3
Core II Social Science		3
Core II Fine Arts		3
Additional University Requirements		
Writing Intensive		3
Writing Intensive		3
International and Multicultural		3
JMC 465	Multimedia Reporting (Capstone)	3
Major Requirements		
Modern Language		3
Modern Language		3
Select one of the following Cultural courses:		3
ANT 201	Cultural Anthropology (CT)	
SOC 200	Introductory Sociology (CT)	
GEO 100	Intro to Human Geography (CT)	
Multicultural		3
International [1]		3
History Elective		3
Literature Elective		3
Literature Elective		3
JMC 101	Media Literacy	3
JMC 102	Media Toolbox	3
JMC 103	Language Use for Media	1
JMC 241	Media Design	3
JMC 260	Digital Imaging for JMC	3
JMC 345	Mass Comm Law and Ethics	3
JMC 361	Digital Presence	3
JMC 470/490	Professional Practicum (Internship)	1-4
Areas of Emphasis-Specific		
JMC 300	Reporting and News Writing	3
JMC 301	Beat Reporting	3
JMC 458	Emerging Media for Journalists	3
JMC 465	Multimedia Reporting	3
Multimedia Emphasis Elective		3
Multimedia Emphasis Elective		3
Multimedia Emphasis Elective		3
Multimedia Emphasis Elective		3
Multimedia Emphasis Elective		3
Non-JMC elective		3
Non-JMC elective		3
Non-JMC elective		3
Non-JMC elective		3
Non-JMC elective		2

[1] Not JMC 436 International Mass Comm

Major Information

- All journalism and mass communications majors must pass a language proficiency exam before admission to any JMC courses at the 300/400 level. The language proficiency requirement may also be met by completing JMC 100 Fund Jrn Writing & Edit with a *C* or better **or** by completing JMC 103 Language Use for Media with a *C* or better. ACT verbal scores of 30 or better or SAT verbal scores of 650 or better may be used in place of the exam.
- No more than 4 hours of non-JMC electives may be completed in PEL.
- Multimedia Emphasis Elective may be met by taking any five of the following courses:

Code	Title	Credit Hours
JMC 302	Advanced Editing & Design	3
JMC 305	Copy Editing	3
JMC 332	Intro to Video Production	3
JMC 414	Reporting Public Affairs	3
JMC 430	Magazine Article Writing	3
JMC 451	Television Reporting	3
JMC 462	Web Design for Mass Media	3

- All SOJMC majors must complete 3 credit hours of internship. Ideally, internships should be completed during the summer between the junior and senior years. To ensure your work is properly credited, you must work through the internship director.
  - Submit a complete internship application.
  - Secure approval of the employment or other work.
  - Get permission to enroll in JMC 490 Jrn & Mass Comm Internship I , JMC 491 Jrn & Mass Comm Intern II or JMC 470 Professional Practicum.
  - Maintain weekly contact, attend scheduled meetings and submit a final report and a portfolio.

- General Education Course

- Milestone course: a key success marker for your major. See your advisor to discuss the importance of this course in your plan of study.

Four Year Plan

Careers in journalism and mass communications are increasingly multilayered as technology and new media outlets spur fresh job titles and responsibilities in social media, web management, multimedia and video production, and data analysis in addition to traditional positions. Majors in SOJMC are configured to reflect new realities of the industry, provide a foundation for all JMC fields that then fan into specializations. With an emphasis in multimedia journalism students learn to write, edit, and design news in multiple media formats. Students learn writing, reporting, editing, designing, photography, web publishing, web design, and video, as well as other media skills. They then use those skills and gain hands-on experience by working for the campus online publication, The Parthenon.

Course	Title	Credit Hours
First Year		
First Semester		
FYS 100	First Yr Sem Critical Thinking	3
JMC 101	Media Literacy	3
JMC 103	Language Use for Media	1
CMM 103	Fund Speech-Communication	3
ENG 101	Beginning Composition	3
Fine Arts		3
UNI 100	Freshman First Class	1
	Credit Hours	**17**
Second Semester		
Core II Mathematics		3
JMC 102	Media Toolbox	3
Core I Critical Thinking		3
Core I Critical Thinking		3
Core II Social Science		3
	Credit Hours	**15**
Second Year		
First Semester		
JMC 300	Reporting and News Writing	3
JMC 241	Media Design	3
ENG 201	Advanced Composition	3
Any Modern Language		3
Core II Physical/Natural Science		4
	Credit Hours	**16**
Second Semester		
JMC 260	Digital Imaging for JMC	3
JMC 301	Beat Reporting	3
Core II Humanities		3
Any Modern Language II		3
History Elective		3
	Credit Hours	**15**
Third Year		
First Semester		
Multimedia Emphasis Elective		3
JMC 361	Digital Presence	3
Select one of the following:		3
ANT 201	Cultural Anthropology (CT) (M/I)	
SOC 200	Introductory Sociology (CT) (M/I)	
GEO 100	Intro to Human Geography (CT) (M/I)	
Literature Elective (WI)		3
International [1]		3
	Credit Hours	**15**
Second Semester		
Multimedia Emphasis Elective		3
Non-JMC Elective		3
Non-JMC Elective		3
Literature Elective		3
Multicultural		3
	Credit Hours	**15**
Fourth Year		
First Semester		
JMC 458	Emerging Media for Journalists	3
Multimedia Emphasis Elective		3
Multimedia Emphasis Elective		3
Non-JMC Elective		3
JMC 490	Jrn & Mass Comm Internship I (if not taken during summer) [2]	3
	Credit Hours	**15**
Second Semester		
JMC 345	Mass Comm Law and Ethics	3
Multimedia Emphasis Elective		3
JMC 465	Multimedia Reporting (Capstone)	3
Non-JMC Elective		4
	Credit Hours	**13**
	Total Credit Hours	**121**

[1] Not JMC 436 International Mass Comm
[2] JMC 490 Jrn & Mass Comm Internship I recommended summer between semesters 6 & 7 (3 hours).

Sports Journalism, Emphasis

- General Education Course

- Milestone course: a key success marker for your major. See your advisor to discuss the importance of this course in your plan of study.

Major

The Core Curriculum is designed to foster critical thinking skills and introduce students to basic domains of thinking that transcend disciplines. The Core applies to all majors. Information on specific classes in the Core can be found at https://www.marshall.edu/gened/.

Code	Title	Credit Hours
Core Curriculum		
Core 1: Critical Thinking		
FYS 100	First Yr Sem Critical Thinking	3
Critical Thinking		3
Critical Thinking		3
Core 2		
ENG 101	Beginning Composition	3
ENG 201	Advanced Composition	3
CMM 103	Fund Speech-Communication	3
Core II Mathematics		3
Core II Natural/Physical Science		4
Core II Humanities		3
Core II Social Science		3
Core II Fine Arts		3
Additional University Requirements		

Writing Intensive		3
Writing Intensive		3
International and Multicultural		3
JMC 465	Multimedia Reporting (Capstone)	3
Major Requirements		
Modern Language		3
Modern Language		3
Select one of the following Cultural Courses:		3
ANT 201	Cultural Anthropology (CT)	
SOC 200	Introductory Sociology (CT)	
GEO 100	Intro to Human Geography (CT)	
Multicultural		3
International [1]		3
History Elective		3
Literature Elective		3
Literature Elective		3
JMC 101	Media Literacy	3
JMC 102	Media Toolbox	3
JMC 103	Language Use for Media	1
JMC 241	Media Design	3
JMC 260	Digital Imaging for JMC	3
JMC 345	Mass Comm Law and Ethics	3
JMC 361	Digital Presence	3
JMC 470/490	Professional Practicum (Internship)	3
Area of Emphasis-Specific		
JMC 300	Reporting and News Writing	3
JMC 303	Sports News Reporting	3
JMC 458	Emerging Media for Journalists	3
JMC 465	Multimedia Reporting	3
JMC 231	Intro to Audio Production	3
JMC 235	Intro to Sports Journalism	3
JMC 321	Sportscasting	3
JMC 330	AD-PR Principles and Ethics	3
or JMC 390	Media Sales & Underwriting	
Select three credit hours from the following:		3
JMC 331	Radio-TV Announ & Newscasting	
JMC 332	Intro to Video Production	
JMC 272	Practice in Radio	
JMC 273	Practice in Radio	
JMC 372	Practice in Radio or TV	
JMC 373	Practice in Radio or TV	
Required non-JMC sports option		3
Required non-JMC sports option		3
Required non-JMC sports option		3
Non-JMC elective 300/400		3
Required Non-JMC Sports Options		
Select three of the following:		9
HST 451	History of Women in Sports	3
or HST 452	History of Sports in America	
STHM 218	Sports in Society (CT)	3
STHM 270	Sport Tourism	3
STHM 380	Sport Marketing	3
STHM 401	Ethics in Sport	3
STHM 496	Olympic Games	3

[1] Not JMC 436 International Mass Comm

Major Information

- All journalism and mass communications majors must pass a language proficiency exam before admission to any JMC courses at the 300/400 level. The language proficiency requirement may also be met by completing JMC 100 Fund Jrn Writing & Edit with a *C* or better **or** by completing JMC 103 Language Use for Media with a *C* or better. ACT verbal scores of 30 or better or SAT verbal scores of 650 or better may be used in place of the exam.
- No more than 4 hours of non-JMC electives may be completed in PEL.
- All SOJMC majors must complete 3 credit hours of internship. Ideally, internships should be completed during the summer between the junior and senior years. To ensure your work is properly credited, you must work through the internship director.
  - Submit a complete internship application.
  - Secure approval of the employment or other work.
  - Get permission to enroll in JMC 490 Jrn & Mass Comm Internship I , JMC 491 Jrn & Mass Comm Intern II or JMC 470 Professional Practicum.
  - Maintain weekly contact, attend scheduled meetings and submit a final report and a portfolio.

- General Education Course

- Milestone course: a key success marker for your major. See your advisor to discuss the importance of this course in your plan of study.

Four Year Plan

Careers in journalism and mass communications are increasingly multilayered as technology and new media outlets spur fresh job titles and responsibilities in social media, web management, multimedia and video production, and data analysis in addition to traditional positions. Majors in SOJMC are configured to reflect new realities of the industry, provide a foundation for all JMC fields that then fan into specializations. With an emphasis in sports Journalism students gather information, analyze data, announce games, interview, and print, broadcast, and social media news features for a variety of sporting events. Practical experience is gained working with The Parthenon, WMULFM 88.1 and Basketball Friday Night in West Virginia.

Course	Title	Credit Hours
First Year		
First Semester		
FYS 100	First Yr Sem Critical Thinking	3
JMC 101	Media Literacy	3
JMC 103	Language Use for Media	1
CMM 103	Fund Speech-Communication	3
ENG 101	Beginning Composition	3
Core II Fine Arts		3
UNI 100	Freshman First Class	1
	Credit Hours	**17**

Second Semester		
Core II Mathematics		3
JMC 102	Media Toolbox	3
JMC 235	Intro to Sports Journalism	3
Core I Critical Thinking		3
Core I Critical Thinking		3
	Credit Hours	**15**
Second Year		
First Semester		
JMC 300	Reporting and News Writing	3
ENG 201	Advanced Composition	3
Select one of the following:		3
ANT 201	Cultural Anthropology (CT) (M/I)	
SOC 200	Introductory Sociology (CT) (M/I)	
GEO 100	Intro to Human Geography (CT) (M/I)	
International		3
Core II Physical/Natural Science		4
	Credit Hours	**16**
Second Semester		
JMC 231	Intro to Audio Production	3
JMC 241	Media Design	3
JMC 260	Digital Imaging for JMC	3
Writing Intensive		3
Core II Social Science		3
	Credit Hours	**15**
Third Year		
First Semester		
JMC 303	Sports News Reporting	3
JMC 321	Sportscasting	3
JMC 361	Digital Presence	3
Literature Elective (WI)		3
Any Modern Language		3
	Credit Hours	**15**
Second Semester		
JMC 330 or JMC 390	AD-PR Principles and Ethics or Media Sales & Underwriting	3
Required non-JMC sports option		3
History Elective		3
Literature Elective		3
Any Modern Language		3
	Credit Hours	**15**
Fourth Year		
First Semester		
JMC 458	Emerging Media for Journalists	3
Select one of the following:		3
JMC 331	Radio-TV Announ & Newscasting	
JMC 332	Intro to Video Production	
JMC 272	Practice in Radio	
JMC 273	Practice in Radio	
JMC 372	Practice in Radio or TV	
JMC 373	Practice in Radio or TV	
Required non-JMC sports option		3
Required non-JMC sports option		3
JMC 490	Jrn & Mass Comm Internship I (if not taken during summer) [1]	3
	Credit Hours	**15**
Second Semester		
JMC 345	Mass Comm Law and Ethics	3
JMC 465	Multimedia Reporting	3
Multicultural		3
Non-JMC elective 300/400		3
	Credit Hours	**12**
	Total Credit Hours	**120**

[1] JMC 490 Jrn & Mass Comm Internship I recommended summer between semesters 6 & 7 (3 hours).

Journalism, Minor

Code	Title	Credit Hours
JMC 101	Media Literacy	3
JMC 300	Reporting and News Writing	3
Select six hours of the following:		6
JMC 340	Basic Broadcast News	
JMC 301	Beat Reporting	
JMC 305	Copy Editing	
JMC 361	Digital Presence	
JMC 430	Magazine Article Writing	
JMC 414	Reporting Public Affairs	
Select one three hour 300/400-level JMC elective		3
Total Credit Hours		**15**

Media Production, Major

Areas of Emphasis

- Radio/Television Production and Management, Emphasis (p. 142)
- Video Production, Emphasis (p. 144)

Radio/Television Production and Management, Emphasis

- General Education Course

- Milestone course: a key success marker for your major. See your advisor to discuss the importance of this course in your plan of study.

Major

The Core Curriculum is designed to foster critical thinking skills and introduce students to basic domains of thinking that transcend disciplines. The Core applies to all majors. Information on specific classes in the Core can be found at https://www.marshall.edu/gened/.

Code	Title	Credit Hours
Core Curriculum		
Core 1: Critical Thinking		
FYS 100	First Yr Sem Critical Thinking	3
Critical Thinking		3
Critical Thinking		3
Core 2		
ENG 101	Beginning Composition	3
ENG 201	Advanced Composition	3
CMM 103	Fund Speech-Communication	3
Core II Mathematics		3
Core II Natural/Physical Science		4
Core II Humanities		3
Core II Social Science		3
Core II Fine Arts		3
Additional University Requirements		
Writing Intensive		3
Writing Intensive		3
International or Multicultural		3
JMC 420	Electronic Media Mgt (Capstone)	3
Major Requirements		
Modern Language		3
Modern Language		3
Select one of the following Cultural courses:		3
ANT 201	Cultural Anthropology (CT)	
SOC 200	Introductory Sociology (CT)	
GEO 100	Intro to Human Geography (CT)	
Multicultural		3
International [1]		3
History Elective		3
Literature Elective		3
Literature Elective		3
JMC 101	Media Literacy	3
JMC 102	Media Toolbox	3
JMC 103	Language Use for Media	1
JMC 241	Media Design	3
JMC 260	Digital Imaging for JMC	3
JMC 345	Mass Comm Law and Ethics	3
JMC 361	Digital Presence	3
JMC 470/490	Professional Practicum (Internship)	1-4
Area of Emphasis-Specific		
JMC 231	Intro to Audio Production	3
JMC 272	Practice in Radio	1
JMC 332	Intro to Video Production	3
or JMC 432	AD-PR Video Production	
JMC 380	AD-PR and Continuity Writing	3
or JMC 300	Reporting and News Writing	
JMC 390	Media Sales & Underwriting	3
JMC 420	Electronic Media Mgt	3
JMC 436	International Mass Comm	3
JMC 450	Contemp Issues Radio-TV	3
JMC Elective 300/400		3
JMC Elective 300/400		2
ACC 215	Accounting Principles (CT)	3
MKT 231	Principles of Selling	3
Non-JMC elective		3
Non-JMC elective 300/400		3
Non-JMC elective 300/400		2

[1] Not JMC 436 International Mass Comm

Major Information

- All journalism and mass communications majors must pass a language proficiency exam before admission to any JMC courses at the 300/400 level. The language proficiency requirement may also be met by completing JMC 100 Fund Jrn Writing & Edit with a *C* or better **or** by completing JMC 103 Language Use for Media with a *C* or better. ACT verbal scores of 30 or better or SAT verbal scores of 650 or better may be used in place of the exam.
- No more than 4 hours of non-JMC electives may be completed in PEL.
- All SOJMC majors must complete 3 credit hours of internship. Ideally, internships should be completed during the summer between the junior and senior years. To ensure your work is properly credited, you must work through the internship director.
  - Submit a complete internship application.
  - Secure approval of the employment or other work.
  - Get permission to enroll in JMC 490 Jrn & Mass Comm Internship I , JMC 491 Jrn & Mass Comm Intern II or JMC 470 Professional Practicum.
  - Maintain weekly contact, attend scheduled meetings and submit a final report and a portfolio.

- General Education Course

- Milestone course: a key success marker for your major. See your advisor to discuss the importance of this course in your plan of study.

Four Year Plan

Careers in journalism and mass communications are increasingly multilayered as technology and new media outlets spur fresh job titles and responsibilities in social media, web management, multimedia, video production, and data analysis in addition to traditional positions. Majors in SOJMC are configured to reflect new realities of the industry, provide a foundation for all JMC fields that then fan into specializations. With an emphasis in Radio/Television Production and Management this major is for students who are interested in radio and television operations. Students learn production, programming, and sales and management techniques. Hands-on experiences are also available by working with student media, namely WMUL-FM and MU Report.

Course	Title	Credit Hours
First Year		
First Semester		
FYS 100	First Yr Sem Critical Thinking	3
JMC 101	Media Literacy	3

JMC 103	Language Use for Media	1
CMM 103	Fund Speech-Communication	3
ENG 101	Beginning Composition	3
Core II Fine Arts		3
UNI 100	Freshman First Class	1
	Credit Hours	**17**
Second Semester		
Core II Mathematics		3
JMC 102	Media Toolbox	3
Core I Critical Thinking		3
Core I Critical Thinking		3
Core II Social Sciences		3
	Credit Hours	**15**
Second Year		
First Semester		
JMC 380	AD-PR and Continuity Writing	3
ENG 201	Advanced Composition	3
Writing Intensive		3
Any Modern Language		3
Core II Physical/Natural Science		4
	Credit Hours	**16**
Second Semester		
JMC 231	Intro to Audio Production	3
JMC 260	Digital Imaging for JMC	3
JMC 332	Intro to Video Production	3
Any Modern Language		3
Select one of the following:		3
ANT 201	Cultural Anthropology (CT) (M/I)	
SOC 200	Introductory Sociology (CT) (M/I)	
GEO 100	Intro to Human Geography (CT) (M/I)	
	Credit Hours	**15**
Third Year		
First Semester		
JMC 241	Media Design	3
JMC 272	Practice in Radio	1
JMC 361	Digital Presence	3
JMC 390	Media Sales & Underwriting	3
ACC 215	Accounting Principles (CT)	3
Multicultural		3
	Credit Hours	**16**
Second Semester		
JMC 436	International Mass Comm	3
History Elective		3
Non-JMC elective		3
Literature Elective (WI)		3
International [1]		3
	Credit Hours	**15**
Fourth Year		
First Semester		
JMC 420	Electronic Media Mgt	3
JMC 450 or JMC 455	Contemp Issues Radio-TV or Race Gender & Mass Media	3
JMC Elective 300/400		2
Literature Elective		3
JMC 490	Jrn & Mass Comm Internship I (if not taken during summer) [2]	3
	Credit Hours	**14**
Second Semester		
JMC 345	Mass Comm Law and Ethics	3
MKT 231	Principles of Selling	3
JMC Elective 300/400		3
Non-JMC elective		2
	Credit Hours	**11**
	Total Credit Hours	**119**

[1] Not JMC 436 International Mass Comm

[2] JMC 490 Jrn & Mass Comm Internship I recommended summer between semesters 6 & 7 (3 hours).

Video Production, Emphasis

- General Education Course

- Milestone course: a key success marker for your major. See your advisor to discuss the importance of this course in your plan of study.

Major

The Core Curriculum is designed to foster critical thinking skills and introduce students to basic domains of thinking that transcend disciplines. The Core applies to all majors. Information on specific classes in the Core can be found at https://www.marshall.edu/gened/.

Code	Title	Credit Hours
Core Curriculum		
Core 1: Critical Thinking		
FYS 100	First Yr Sem Critical Thinking	3
Critical Thinking		3
Critical Thinking		3
Core 2		
ENG 101	Beginning Composition	3
ENG 201	Advanced Composition	3
CMM 103	Fund Speech-Communication	3
Core II Mathematics		3
Core II Natural Science/Physical Science		4
Core II Humanities		3
Core II Social Science		3
Core II Fine Arts		3
Additional University Requirements		
Writing Intensive		3
Writing Intensive		3
International or Multicultural		3
JMC 420	Electronic Media Mgt (Capstone)	3

Major Requirements		
Modern Language		3
Modern Language		3
Select one of the following:		3
ANT 201	Cultural Anthropology (CT)	
SOC 200	Introductory Sociology (CT)	
GEO 100	Intro to Human Geography (CT)	
Multicultural		3
International [1]		3
History Elective		3
Literature Elective		3
Literature Elective		3
JMC 101	Media Literacy	3
JMC 102	Media Toolbox	3
JMC 103	Language Use for Media	1
JMC 241	Media Design	3
JMC 260	Digital Imaging for JMC	3
JMC 345	Mass Comm Law and Ethics	3
JMC 361	Digital Presence	3
JMC 470/490	Professional Practicum (Internship)	3
Area of Emphasis - Specific		
JMC 231	Intro to Audio Production	3
JMC 332	Intro to Video Production	3
JMC 380	AD-PR and Continuity Writing	3
JMC 432	AD-PR Video Production	3
JMC 434	Advanced Video	3
JMC 475	Documentary Journalism	3
ART 219	Foundations: Frame/Time	3
ART 325	Image Visualization: Digital	3
ART 423	Photographic Lighting	3
JMC Elective 300/400		3
ART 453	Motion Design I	3
ART 454	Motion Design II	3
Select one of the following:		4
THE 240	Stage Lighting I	
THE 245	Intro to Technical Theatre	
THE 250	Introduction to Costuming	
THE 437	Directing I	3
AM 299	Sophomore Review	0
AM 498	Senior Pre-Capstone	3
AM 499	Senior Capstone Project	3
Non-JMC Elective		2

[1] Not JMC 436 International Mass Comm

Major Information

- All journalism and mass communications majors must pass a language proficiency exam before admission to any JMC courses at the 300/400 level. The language proficiency requirement may also be met by completing JMC 100 Fund Jrn Writing & Edit with a *C* or better **or** by completing JMC 103 Language Use for Media with a *C* or better. ACT verbal scores of 30 or better or SAT verbal scores of 650 or better may be used in place of the exam.
- No more than 4 hours of non-JMC electives may be completed in PEL.
- All SOJMC majors must complete 3 credit hours of internship. Ideally, internships should be completed during the summer between the junior and senior years. To ensure your work is properly credited, you must work through the internship director.
  - Submit a complete internship application.
  - Secure approval of the employment or other work.
  - Get permission to enroll in JMC 490 Jrn & Mass Comm Internship I , JMC 491 Jrn & Mass Comm Intern II or JMC 470 Professional Practicum.
  - Maintain weekly contact, attend scheduled meetings and submit a final report and a portfolio.

- General Education Course

- Milestone course: a key success marker for your major. See your advisor to discuss the importance of this course in your plan of study.

Four Year Plan

Careers in journalism and mass communications are increasingly multilayered as technology and new media outlets spur fresh job titles and responsibilities in social media, web management, multimedia and video production, and data analysis in addition to traditional positions. Majors in SOJMC are configured to reflect new realities of the industry, provide a foundation for all JMC fields that then fan into specializations. An emphasis in Video Production focuses on storytelling through moving images and spoken words. Students shoot video, edit and construct stories for news, documentaries, commercials, corporate instruction, web series, vlogs, micromovies, and other venues they might imagine.

Course	Title	Credit Hours
First Year		
First Semester		
FYS 100	First Yr Sem Critical Thinking	3
JMC 101	Media Literacy	3
JMC 103	Language Use for Media	1
Select one of the following:		3
ANT 201	Cultural Anthropology (CT) (M/I)	
SOC 200	Introductory Sociology (CT) (M/I)	
GEO 100	Intro to Human Geography (CT) (M/I)	
ENG 101	Beginning Composition	3
Core II Fine Arts		3
UNI 100	Freshman First Class	1
	Credit Hours	**17**
Second Semester		
Core II Mathematics		3
JMC 102	Media Toolbox	3
Core I Critical Thinking		3
Core I Critical Thinking		3
CMM 103	Fund Speech-Communication	3
	Credit Hours	**15**

Second Year		
First Semester		
JMC 260	Digital Imaging for JMC	3
JMC 380	AD-PR and Continuity Writing	3
ENG 201	Advanced Composition	3
ART 219	Foundations: Frame/Time	3
Core II Physical/Natural Science		4
	Credit Hours	**16**
Second Semester		
JMC 231	Intro to Audio Production	3
JMC 241	Media Design	3
JMC 332	Intro to Video Production	3
Select one of the following:		4
THE 240	Stage Lighting I	
THE 245	Intro to Technical Theatre	
THE 250	Introduction to Costuming	
Literature Elective		3
AM 299	Sophomore Review	0
	Credit Hours	**16**
Third Year		
First Semester		
JMC 361	Digital Presence	3
ART 423	Photographic Lighting	3
THE 437	Directing I	3
Any Modern Language		3
Literature Elective		3
	Credit Hours	**15**
Second Semester		
JMC 434	Advanced Video	3
ART 325	Image Visualization: Digital	3
Any Modern Language		3
History Elective		3
	Credit Hours	**12**
Fourth Year		
First Semester		
JMC 345	Mass Comm Law and Ethics	3
JMC 432	AD-PR Video Production	3
ART 453	Motion Design I	3
AM 498	Senior Pre-Capstone	3
JMC 490	Jrn & Mass Comm Internship I (if not taken during summer) [1]	3
	Credit Hours	**15**
Second Semester		
JMC Elective 300/400		3
JMC 475	Documentary Journalism	3
AM 499	Senior Capstone Project	3
ART 454	Motion Design II	3
Non-JMC Elective		2
	Credit Hours	**14**
	Total Credit Hours	**120**

[1] JMC 490 Jrn & Mass Comm Internship I recommended summer between semesters 6 & 7 (3 hours).

Media Studies, Minor

Code	Title	Credit Hours
JMC 222	Introduction to Media Studies	3
Select 12 hours of the following:		12
JMC 101	Media Literacy	
JMC 345	Mass Comm Law and Ethics	
JMC 404	Hist Am JRN & Mass Comm	
JMC 436	International Mass Comm	
JMC 450	Contemp Issues Radio-TV	
JMC 455	Race Gender & Mass Media	
JMC 468	Environmental Mass Comm	
Total Credit Hours		**15**

Public Relations, Minor

Code	Title	Credit Hours
JMC 300	Reporting and News Writing	3
JMC 330	AD-PR Principles and Ethics	3
JMC 437	Public Relations Planning	3
JMC 438	Public Relations Case Studies	3
JMC 439	AD-PR Campaign Management	3
Total Credit Hours		**15**

School of Music

The mission of the Marshall University School of Music is to equip students for pursuing careers in their chosen field of musical study and for making a positive impact in their communities and the profession, to provide opportunities for enriching musical experiences for all Marshall University students, and to serve as an important cultural resource for the region.

In the pursuit of our mission, we are committed to the following goals:

- to foster a student-centered environment that inspires musical, academic, and personal growth and excellence;
- to educate students to think critically, work creatively, communicate effectively, and become technologically literate;
- to champion the creation, performance, teaching, research, and study of music through the professional work of our music faculty;
- to provide leadership within the university and the region in all matters pertaining to music;
- to function as a vital and visible contributor to the cultural life of the university and community by providing performances, festivals, and other presentations, as well as by engaging in arts partnerships and other collaborations.

The music program is a fully accredited institutional member of the National Association of Schools of Music. Undergraduate students may pursue the Bachelor of Arts with a major in Music, a Bachelor of Fine Arts degree with a music major or content-area coursework for the

Bachelor of Arts degree in Education toward PreK-Adult certification in music. Requirements for the Bachelor of Arts degree in Education are described in the College of Education catalog section. The School of Music also offers a minor in music. Students who wish to major in music or education with certification in music, or minor in music, should consult the Director of the School of Music for admission and audition requirements.

Programs

- Commercial Music, B.A. (p. 157)
- Music Entrepreneurship, Minor (p. 173)
- Music, B.A. (p. 159)
- Music, B.F.A. (p. 162)
- Music, Minor (p. 173)

Courses

- General Education Course

MUS 100 Applied Music Laboratory **0 Credit hours**
A forum devoted to the development of applied music skills, supplying the opportunity for music majors both to demonstrate performance skills and to observe the skills of colleagues. A forum devoted to the development of applied music skills, supplying the opportunity for music majors both to demon- strate performance skills and to observe the skills of colleagues.
Attributes: No Textbook Required
Grade Mode: Credit/No Credit Grade Only

MUS 101 Basic Musicianship **3 Credit hours**
Study of music fundamentals and aural skills including: notation, key signatures, scales, intervals, and triads and aural recognition of meter, scales, intervals, and triads. Online section open to non-music majors.
Grade Mode: Normal Grading Mode

MUS 102 Developmental Class Piano **1 Credit hour**
Class instruction for students with little or no prior background in piano. Preparation for entry into the MUS 179 sequence. Pre: Permission. Class instruction for students with little or no prior background in piano. Preparation for entry into the MUS 179 sequence. Pre: Permission.
Grade Mode: Normal Grading Mode

MUS 105 Critical Thinking Music (CT) **3 Credit hours**
Includes the study of critical thinking in music fields with specific focus on music education and performance. Includes the study of critical thinking in music fields with specific focus on music education and performance.
Attributes: Critical Thinking
Grade Mode: Normal Grading Mode

MUS 109 Mus Theatre Musicianship Lab **1 Credit hour**
A music literacy lab for the musical theatre major emphasizing the practices of sight-singing and rhythm skills covered in MUS 101.
Pre-req: MUS 101 with a minimum grade of C.
Grade Mode: Normal Grading Mode

MUS 110 The Professional Musician **1 Credit hour**
Investigation of traditional and non-traditional music career options and the role of the musician in arts advocacy, community engagement, and arts education. (pre-requisities: none)
Grade Mode: Normal Grading Mode

MUS 111 Elementary Music Theory I **2 Credit hours**
Study of the diatonic harmony of the Common Practice Period through development of compositional and analytical skills. Emphasis on cadences, melodic form, non-harmonic tones and diatonic triads.
Co-req: MUS 113
Grade Mode: Normal Grading Mode

MUS 112 Elementary Music Theory II **2 Credit hours**
Continued study of diatonic harmony of the Common Practice Period through development of compositional and analytical skills. Introduction to elementary forms, elementary modulation, and secondary dominants.
Pre-req: MUS 111 with a minimum grade of C and MUS 113 with a minimum grade of C.
Co-req: MUS 114
Grade Mode: Normal Grading Mode

MUS 113 Elem Aural Skills I **2 Credit hours**
Sight-singing of melodies, and dictation of harmony, rhythm, and melody using elementary rhythms and diatonic pitch materials.
Co-req: MUS 111
Grade Mode: Normal Grading Mode

MUS 114 Elem Aural Skills II **2 Credit hours**
Sight-singing of melodies, and dictation of harmony, rhythm, and melody using diatonic pitch materials in major and minor modes. Introduction to syncopation, secondary dominants, and elementary forms.
Pre-req: MUS 113 with a minimum grade of C.
Co-req: MUS 112
Grade Mode: Normal Grading Mode

MUS 142 Music in Society **3 Credit hours**
Exploration of the roles and value of music in culture and society. Development of musical awareness through mastery of basic terminology, stylistic concepts, and critical listening skills. For non-music majors.
Attributes: Affordable Education Materials, Core II Fine Arts, Multicultural
Grade Mode: Normal Grading Mode

MUS 142H Music in Society Honors **3 Credit hours**
Exploration of the roles an value of music in culture and society. Development of musical awareness through mastery of basic terminology, stylistic concepts, and critical listening skills. For non-music majors. 3 credits.
Pre-req: Admitted Honors College with a score of 1.
Attributes: Affordable Education Materials, Core II Fine Arts, Honors, Multicultural
Grade Mode: Normal Grading Mode

MUS 171 African Drum & Dance Ens **1 Credit hour**
The African Drumming and Dance Ensemble specializes in performing traditional music of West Africa. This ensemble combines dancing, drumming and singing into a rich cultural experience in non-western music. The ensemble is open to all univerisity students and does not require prior musical training. The African Drumming and Dance Ensemble specializes in performing traditional music of West Africa. This ensemble combines dancing, drumming and singing into a rich cultural experience in non-western music. The ensemble is open to all univerisity students and does not require prior musical training.
Attributes: No Textbook Required
Grade Mode: Normal Grading Mode

MUS 172 Fife and Drum Corps **1 Credit hour**
Performing, marching, uniformed ensemble devoted to the music of the American Revolution and Chief Justice John Marshall. Instruments featured include fifes and drums. Performing, marching, uniformed ensemble devoted to the music of the American Revolution and Chief Justice John Marshall. Instruments featured include fifes and drums.
Attributes: No Textbook Required
Grade Mode: Normal Grading Mode

MUS 174 Irish Ceili Band **1 Credit hour**
An ensemble open to all university and regional performers on instruments of the Irish Ceili Band tradition. One rehearsal per week; several performances each semester. An ensemble open to all university and regional performers on instruments of the Irish Ceili Band tradition. One rehearsal per week; several performances each semester.
Grade Mode: Normal Grading Mode

MUS 177A Class Guitar **1 Credit hour**
Grade Mode: Normal Grading Mode

MUS 178A Class Voice **1 Credit hour**
Classes for voice minors and electives designed for beginners. Classes for voice minors and electives designed for beginners.
Grade Mode: Normal Grading Mode

MUS 178B Class Voice **1 Credit hour**
Classes for voice minors and electives designed for beginners. Classes for voice minors and electives designed for beginners.
Grade Mode: Normal Grading Mode

MUS 179A Class Piano **1 Credit hour**
Classes for piano minors and electives progressing from beginner to proficiency level. Classes for piano minors and electives progressing from beginner to proficiency level.
Grade Mode: Normal Grading Mode

MUS 179B Class Piano **1 Credit hour**
Classes for piano minors and electives progressing from beginner to proficiency level. Classes for piano minors and electives progressing from beginner to proficiency level.
Grade Mode: Normal Grading Mode

MUS 179C Class Piano **1 Credit hour**
Classes for piano minors and electives progressing from beginner to proficiency level. Classes for piano minors and electives progressing from beginner to proficiency level.
Grade Mode: Normal Grading Mode

MUS 179D Class Piano **1 Credit hour**
Classes for piano minors and electives progressing from beginner to proficiency level. Classes for piano minors and electives progressing from beginner to proficiency level.
Grade Mode: Normal Grading Mode

MUS 180 Applied Composition **1-2 Credit hours**
Individual studies in composition. May be repeated for credit.
Attributes: No Textbook Required
Grade Mode: Normal Grading Mode

MUS 181 Saxophone **1-2 Credit hours**
Attributes: No Textbook Required
Grade Mode: Normal Grading Mode

MUS 182 Flute **1-2 Credit hours**
Attributes: No Textbook Required
Grade Mode: Normal Grading Mode

MUS 183 Oboe **1-2 Credit hours**
Attributes: No Textbook Required
Grade Mode: Normal Grading Mode

MUS 184 Clarinet **1-2 Credit hours**
Attributes: No Textbook Required
Grade Mode: Normal Grading Mode

MUS 185 Bassoon **1-2 Credit hours**
Attributes: No Textbook Required
Grade Mode: Normal Grading Mode

MUS 186 French Horn **1-2 Credit hours**
Attributes: No Textbook Required
Grade Mode: Normal Grading Mode

MUS 187 Trumpet **1-2 Credit hours**
Attributes: No Textbook Required
Grade Mode: Normal Grading Mode

MUS 188 Trombone **1-2 Credit hours**
Attributes: No Textbook Required
Grade Mode: Normal Grading Mode

MUS 189 Euphonium **1-2 Credit hours**
Attributes: No Textbook Required
Grade Mode: Normal Grading Mode

MUS 190 Tuba **1-2 Credit hours**
Attributes: No Textbook Required
Grade Mode: Normal Grading Mode

MUS 191 Violin **1-2 Credit hours**
Attributes: No Textbook Required
Grade Mode: Normal Grading Mode

MUS 192 Viola **1-2 Credit hours**
Attributes: No Textbook Required
Grade Mode: Normal Grading Mode

MUS 193 Cello **1-2 Credit hours**
Attributes: No Textbook Required
Grade Mode: Normal Grading Mode

MUS 194 String Bass **1-2 Credit hours**
Attributes: No Textbook Required
Grade Mode: Normal Grading Mode

MUS 195 Piano **1-2 Credit hours**
Attributes: No Textbook Required
Grade Mode: Normal Grading Mode

MUS 196 Voice **1-2 Credit hours**
Attributes: No Textbook Required
Grade Mode: Normal Grading Mode

MUS 197 Organ **1-2 Credit hours**
Attributes: No Textbook Required
Grade Mode: Normal Grading Mode

MUS 198 Percussion **1-2 Credit hours**
Attributes: No Textbook Required
Grade Mode: Normal Grading Mode

MUS 199 Guitar **1-2 Credit hours**
Attributes: No Textbook Required
Grade Mode: Normal Grading Mode

MUS 200 Introduction to World Music **3 Credit hours**
This course will survey native musics of Africa, Asia and the Americas as an aspect of culture. No formal background in music is required.
Attributes: Core II Fine Arts, Multicultural
Grade Mode: Normal Grading Mode

MUS 203 Choral Union **1 Credit hour**
Large choral ensemble available to university and regional singers without audition. Gives public performances of oratorios and works for chorus and orchestra twice a year. One rehearsal per week. Large choral ensemble available to university and regional singers without audition. Gives public performances of oratorios and works for chorus and orchestra twice a year. One rehearsal per week.
Attributes: No Textbook Required
Grade Mode: Normal Grading Mode

MUS 204 University Chorus **1 Credit hour**
A mixed chorus of 60-90 singers open to all university students without audition. Public performances of a variety of music are given each semester. Three rehearsals per week. A mixed chorus of 60-90 singers open to all university students without audition. Public performances of a variety of music are given each semester. Three rehearsals per week.
Attributes: No Textbook Required
Grade Mode: Normal Grading Mode

MUS 205 A Cappella Ensemble **1 Credit hour**
A mixed a capella ensemble dedicated to the performance of a variety of popular, jazz, and contemporary sytles. Open to all students regardless of major. PR: Permission.
Attributes: No Textbook Required
Grade Mode: Normal Grading Mode

MUS 206 Opera Workshop **1 Credit hour**
Preparation and performance of opera scenes and full operas. Membership open to students as singers, pianists, and technical personnel. Roles assigned by audition. Two rehearsals per week plus private coaching. Preparation and performance of opera scenes and full operas. Membership open to students as singers, pianists, and technical personnel. Roles assigned by audition. Two rehearsals per week plus private coaching.
Attributes: No Textbook Required
Grade Mode: Normal Grading Mode

MUS 207 Chamber Choir **1 Credit hour**
Advanced, auditioned choral ensemble open to all university students. Repertoire performed locally and on tour includes great chamber literature of the past five centuries. Three rehearsals per week. Advanced, auditioned choral ensemble open to all university students. Repertoire performed locally and on tour includes great chamber literature of the past five centuries. Three rehearsals per week.
Attributes: No Textbook Required
Grade Mode: Normal Grading Mode

MUS 208 Orchestra **1 Credit hour**
The Marshall Community Orchestra is open to all university students, faculty, and interested musicians in the community with permission of the instructor. Concerts are presented each semester. Rehearsals are held each Tuesday evening. The Marshall Community Orchestra is open to all university students, faculty, and interested musicians in the community with permission of the instructor. Concerts are presented each semester. Rehearsals are held each Tuesday evening.
Attributes: No Textbook Required
Grade Mode: Normal Grading Mode

MUS 210 Intro to Electronic Music (CT) **3 Credit hours**
A non-technical introduction to the theory, practice and literature of electronic music. This course fulfills a Core I/CT Course requirement. Open to all majors.
Attributes: Critical Thinking, Digital Humanities, Core II Fine Arts
Grade Mode: Normal Grading Mode

MUS 211 Advanced Music Theory I **2 Credit hours**
Study of advanced harmonic concepts in tonal music including modulation, altered pre-dominants, and chromatic mediant relationships.
Pre-req: MUS 112 with a minimum grade of C and MUS 114 with a minimum grade of C.
Co-req: MUS 213
Grade Mode: Normal Grading Mode

MUS 212 Advanced Music Theory II **2 Credit hours**
The study of musical forms and formal processes found in music of the late 18th through the 19th centuries.
Pre-req: MUS 211 with a minimum grade of C and MUS 213 with a minimum grade of C.
Co-req: MUS 214
Grade Mode: Normal Grading Mode

MUS 213 Adv Aural Skills I **2 Credit hours**
Sight-singing and aural analysis of melodies, harmonies, and rhythms found in 18th and 19th century music, including modulating melodies, secondary dominants, multi-part harmonic dictation, and characteristic rhythms. (PRE: MUS 112 and MUS 114; MUS 211 must be taken concurrently or prior to enrollment in MUS 213) Sight-singing and aural analysis of melodies, harmonies, and rhythms found in 18th and 19th century music, including modulating melodies, secondary dominants, multi-part harmonic dictation, and characteristic rhythms. (PRE: MUS 112 and MUS 114; MUS 211 must be taken concurrently or prior to enrollment in MUS 213)
Pre-req: MUS 112 with a minimum grade of C and MUS 114 with a minimum grade of C.
Co-req: MUS 211
Grade Mode: Normal Grading Mode

MUS 214 Adv Aural Skills II **2 Credit hours**
Sight-singing and aural analysis of 19th and 20th century music, including chromatic harmony, modulating melodies, multi-part harmonic dictation, scale/chord identification, characteristic 20th century sonorities and advanced rhythmic materials. (PREREQ: MUS 211 and MUS 213; MUS 212 must be taken concurrently or prior to enrollment in MUS 213) Sight-singing and aural analysis of 19th and 20th century music, including chromatic harmony, modulating melodies, multi-part harmonic dictation, scale/chord identification, characteristic 20th century sonorities and advanced rhythmic materials. (PREREQ: MUS 211 and MUS 213; MUS 212 must be taken concurrently or prior to enrollment in MUS 213)
Pre-req: MUS 211 with a minimum grade of C and MUS 213 with a minimum grade of C.
Co-req: MUS 212
Grade Mode: Normal Grading Mode

MUS 217 Jazz Theory **4 Credit hours**
Fundamental jazz theory and ear training. Chords, scales, nomenclature. Harmonic progressions and substitutions. Aural recognition of melodic and chord structures and functions. Composition and transcription. Pre: MUS 215 Fundamental jazz theory and ear training. Chords, scales, nomenclature. Harmonic progressions and substitutions. Aural recognition of melodic and chord structures and functions. Composition and transcription. Pre: MUS 215
Pre-req: MUS 211 with a minimum grade of C or MUS 213 with a minimum grade of C.
Grade Mode: Normal Grading Mode

MUS 218 Intro to Music Technology **3 Credit hours**
Introduction to music technology for sound reinforcement, music notation, MIDI, recording, technology aided instruction, and emerging issues concerning use and production of media in Western society. (PR: MUS 112 and 114 or permission)
Pre-req: MUS 112 with a minimum grade of D and MUS 114 with a minimum grade of D.
Grade Mode: Normal Grading Mode

MUS 219 Digital Recording Techniques **2 Credit hours**
Concepts, implementation, and utlization of digital audio workstation software and hardware: MIDI, digital audio, recording techniques, production, and using the Internet to empower music creators (open to non-music majors) Prerequisite: None
Grade Mode: Normal Grading Mode

MUS 222 Ital & Eng Diction Singer **2 Credit hours**
A systematic study of the pronunciation and problems encountered by singers when performing repertoire with English and Italian texts. A systematic study of the pronunciation and problems encountered by singers when performing repertoire with English and Italian texts.
Grade Mode: Normal Grading Mode

MUS 224 Fren & Ger Diction Singer **2 Credit hours**
A systematic study of the pronunciation and problems encountered by singers when performing repertoire with French and German texts. A systematic study of the pronunciation and problems encountered by singers when performing repertoire with French and German texts.
Pre-req: MUS 222 with a minimum grade of C.
Grade Mode: Normal Grading Mode

MUS 227 History of Popular Music **3 Credit hours**
A chronological listening survey course of popular music with an emphasis on examining the intersection of musical, historical, sociological, and cultural factors.
Attributes: Core II Fine Arts
Grade Mode: Normal Grading Mode

MUS 231 Jazz Improvisation I **2 Credit hours**
Introduction to improvisation. Diatonic chord/scale relationships. Basic forms. Melodic construction and elaboration. Rhythmic improvisation. Keys and modes. Pre: MUS 116 Introduction to improvisation. Diatonic chord/scale relationships. Basic forms. Melodic construction and elaboration. Rhythmic improvisation. Keys and modes. Pre: MUS 116
Pre-req: MUS 114 with a minimum grade of C and MUS 112 with a minimum grade of C.
Grade Mode: Normal Grading Mode

MUS 232 Jazz Improvisation II **2 Credit hours**
Continued development of skills and techniques. Idiomatic jazz patterns. Survey of standard literature. Turnarounds, blues progressions. Transcription of solos. Performance and elaboration of representative literature. Pre: MUS 231 Continued development of skills and techniques. Idiomatic jazz patterns. Survey of standard literature. Turnarounds, blues progressions. Transcription of solos. Performance and elaboration of representative literature. Pre: MUS 231
Pre-req: MUS 231 with a minimum grade of C.
Grade Mode: Normal Grading Mode

MUS 233 Percussion Class **3 Credit hours**
A class of non-music majors who will learn to play percussion instruments from various cultures.
Grade Mode: Normal Grading Mode

MUS 235 Concert Band **1 Credit hour**
A concert band for any undergraduate student who has had experience playing a band instrument in high school or middle school.
Attributes: No Textbook Required
Grade Mode: Normal Grading Mode

MUS 237 Brass Band of the TriState **1 Credit hour**
A community/university ensemble modeled after the British-style brass band.
Grade Mode: Normal Grading Mode

MUS 240 Music Comp/Theory Sem **2 Credit hours**
Introduction to advanced theoretical and compositional methods employed by artist/researchers in analyzing music from the 19th and 20th centuries. (PR: MUS 215, Permission) Introduction to advanced theoretical and compositional methods employed by artist/researchers in analyzing music from the 19th and 20th centuries. (PR: MUS 215, Permission)
Pre-req: MUS 112 with a minimum grade of C and MUS 114 with a minimum grade of C.
Grade Mode: Normal Grading Mode

MUS 245 Piano Ensemble **1 Credit hour**
An ensemble elective for piano majors and qualified piano secondary/elective students. Perform a wide variety of musical styles for multiple pianists on 1-5 pianos. May be repeated for credit. An ensemble elective for piano majors and qualified piano secondary/elective students. Perform a wide variety of musical styles for multiple pianists on 1-5 pianos. May be repeated for credit.
Attributes: No Textbook Required
Grade Mode: Normal Grading Mode

MUS 250 History of Jazz **3 Credit hours**
The history of the development of jazz and related forms from the 19th century antecedents to recent experimental trends.
Grade Mode: Normal Grading Mode

MUS 252 Cello Ensemble **1 Credit hour**
Cello students will rehearse and perform works from the major literature for cello ensemble. Cello students will rehearse and perform works from the major literature for cello ensemble.
Attributes: No Textbook Required
Grade Mode: Normal Grading Mode

MUS 253 Guitar Ensemble **1 Credit hour**
Attributes: No Textbook Required
Grade Mode: Normal Grading Mode

MUS 254 Flute Ensemble **1 Credit hour**
Performs a wide variety of musical styles from full flute choir to quarters, trios, etc. Membership required of all flute majors; others by audition. One rehearsal per week. Performs a wide variety of musical styles from full flute choir to quarters, trios, etc. Membership required of all flute majors; others by audition. One rehearsal per week.
Attributes: No Textbook Required
Grade Mode: Normal Grading Mode

MUS 255 String Ensemble **1 Credit hour**
Attributes: No Textbook Required
Grade Mode: Normal Grading Mode

MUS 256 Woodwind Ensemble **1 Credit hour**
Attributes: No Textbook Required
Grade Mode: Normal Grading Mode

MUS 257 Percussion Ensemble **1 Credit hour**
Attributes: No Textbook Required
Grade Mode: Normal Grading Mode

MUS 258 Brass Ensemble **1 Credit hour**
Attributes: No Textbook Required
Grade Mode: Normal Grading Mode

MUS 259 Jazz Ensemble **1 Credit hour**
Attributes: No Textbook Required
Grade Mode: Normal Grading Mode

MUS 260 Jazz Improv Ensemble **1 Credit hour**
Ensemble improvisation from duet to tentet. Emphasis on music sightreading, recognition and application of chord/ scale relationships in a performance setting. Ensemble playing skills. May be repeated for credit. Ensemble improvisation from duet to tentet. Emphasis on music sightreading, recognition and application of chord/ scale relationships in a performance setting. Ensemble playing skills. May be repeated for credit.
Attributes: No Textbook Required
Grade Mode: Normal Grading Mode

MUS 261 String Techniques **1 Credit hour**
Grade Mode: Normal Grading Mode

MUS 262 Woodwind Techniques **1 Credit hour**
Grade Mode: Normal Grading Mode

MUS 263 Brass Techniques **1 Credit hour**
Grade Mode: Normal Grading Mode

MUS 264 Percussion Techniques **1 Credit hour**
Grade Mode: Normal Grading Mode

MUS 265 Symphonic Band **1 Credit hour**
Attributes: No Textbook Required
Grade Mode: Normal Grading Mode

MUS 266 Marching Thunder **1 Credit hour**
Attributes: No Textbook Required
Grade Mode: Normal Grading Mode

MUS 267 Wind Symphony **1 Credit hour**
Attributes: No Textbook Required
Grade Mode: Normal Grading Mode

MUS 268 Sixth Man Band **1 Credit hour**
Attributes: No Textbook Required
Grade Mode: Normal Grading Mode

MUS 269 Contemporary Music Ens **1 Credit hour**
Performance of contemporary music in various media. May be repeated for credit. Counts towards improvisation requirement.
Grade Mode: Normal Grading Mode

MUS 270 Musical Prods Practicum **1 Credit hour**
Application of musical production processes, theories and techniques. Specialized practical experience in all musical aspects of rehearsal and performance. Each number may be taken four times. Application of musical production processes, theories and techniques. Specialized practical experience in all musical aspects of rehearsal and performance. Each number may be taken four times.
Grade Mode: Normal Grading Mode

MUS 271 Guitar Techniques **1 Credit hour**
The study of guitar techniques that will allow students to play and teach guitar at a basic level in a public school music program.
Grade Mode: Normal Grading Mode

MUS 279A Jazz Piano Class **1 Credit hour**
Class instruction progressing from beginner to advanced. Development of literature and skills needed to pass the jazz piano proficiency exam. (Prerequisites: Permission. Permission granted upon completion of piano proficiency or completion of jazz piano placement exam.) Class instruction progressing from beginner to advanced. Development of literature and skills needed to pass the jazz piano proficiency exam. (Prerequisites: Permission. Permission granted upon completion of piano proficiency or completion of jazz piano placement exam.)
Grade Mode: Normal Grading Mode

MUS 279B Jazz Piano Class **1 Credit hour**
Class instruction progressing from beginner to advanced. Development of literature and skills needed to pass the jazz proficiency exam. (Prerequisites: Permission. Permission granted upon completion of piano proficiency or completion of jazz piano placement exam.) Class instruction progressing from beginner to advanced. Development of literature and skills needed to pass the jazz proficiency exam. (Prerequisites: Permission. Permission granted upon completion of piano proficiency or completion of jazz piano placement exam.)
Grade Mode: Normal Grading Mode

MUS 279C Jazz Piano Class **1 Credit hour**
Class instruction progressing from beginner to advanced. Development of literature and skills needed to pass the jazz piano proficiency exam. (Prerequisites: Permission. Permission granted upon completion of piano proficiency or completion of jazz piano placement exam.) Class instruction progressing from beginner to advanced. Development of literature and skills needed to pass the jazz piano proficiency exam. (Prerequisites: Permission. Permission granted upon completion of piano proficiency or completion of jazz piano placement exam.)
Grade Mode: Normal Grading Mode

MUS 279D Jazz Piano Class **1 Credit hour**
Class instruction progressing from beginner to advanced. Development of literature and skills needed to pass the jazz piano proficiency exam. (Prerequisites: Permission. Permission granted upon completion of piano proficiency or completion of jazz piano placement exam.) Class instruction progressing from beginner to advanced. Development of literature and skills needed to pass the jazz piano proficiency exam. (Prerequisites: Permission. Permission granted upon completion of piano proficiency or completion of jazz piano placement exam.)
Grade Mode: Normal Grading Mode

MUS 280 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

MUS 281 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

MUS 282 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

MUS 283 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

MUS 290 Music History to 1750 **3 Credit hours**
A study of the history and development of music through 1750, including the interaction of music with historical events, world cultures, other arts and philosophy. PR: MUS 211 and 213 with a grade of C or better A study of the history and development of music through 1750, including the interaction of music with historical events, world cultures, other arts and philosophy. PR: MUS 211 and 213 with a grade of C or better
Pre-req: MUS 211 with a minimum grade of C and MUS 213 with a minimum grade of C.
Grade Mode: Normal Grading Mode

MUS 301 Analysis **3 Credit hours**
Analysis of music from the 18th through 20th centuries using general methodology, set and serial theory.
Pre-req: MUS 212 with a minimum grade of C and MUS 214 with a minimum grade of C.
Grade Mode: Normal Grading Mode

MUS 302 Advanced Analysis **2 Credit hours**
Analysis of musical works from the late 19th century through the present era using sight and sound.
Pre-req: MUS 301 with a minimum grade of C.
Grade Mode: Normal Grading Mode

MUS 304 Styles **2 Credit hours**
An investigation of the distinguishing characteristics of the music of major composers by the study, dissection and comparison of major works. An investigation of the distinguishing characteristics of the music of major composers by the study, dissection and comparison of major works.
Pre-req: MUS 301 with a minimum grade of C and MUS 361 with a minimum grade of C.
Grade Mode: Normal Grading Mode

MUS 308 Music and Sound in Film **3 Credit hours**
A study of the role of music and sound in film. Development of terminology and skills for analyzing and interpreting sound tracks of films throughout the history of film.
Grade Mode: Normal Grading Mode

MUS 310 Perf Arts Entrepreneurship **1 Credit hour**
Skills required to create careers as entrepreneurial performing artists or to supplement an arts career in entrepreneurial pursuits, including planning, self-promotion, networking, audience building, and marketing.
Grade Mode: Normal Grading Mode

MUS 312 Vocal Techniques **1 Credit hour**
Foundation principles of voice usage, interpretation, and problems of vocal pedagogy. For instrumental music major students. Courses must be taken in sequence. Foundation principles of voice usage, interpretation, and problems of vocal pedagogy. For instrumental music major students. Courses must be taken in sequence.
Grade Mode: Normal Grading Mode

MUS 315 Basic Conducting **2 Credit hours**
Fundamental conducting skills: baton use, beat patterns of simple/compound meters, fermata holds/releases, cues to discrete parts using hand, visual gestures, leadership, conducting terminology, transportation and score reading.
Pre-req: MUS 212 with a minimum grade of C or MUS 214 with a minimum grade of C or MUS 217 with a minimum grade of C.
Grade Mode: Normal Grading Mode

MUS 317 Counterpoint **2 Credit hours**
Eighteenth Century counterpoint includes creative writing in this style and analysis of contrapuntal composition of this period based upon principles learned in introductory theory courses. Eighteenth Century counterpoint includes creative writing in this style and analysis of contrapuntal composition of this period based upon principles learned in introductory theory courses.
Pre-req: MUS 216 or MUS 214 with a minimum grade of C.
Grade Mode: Normal Grading Mode

MUS 320 Instrumental Arranging **2 Credit hours**
The study of the instruments of the modern orchestra, their history, technical possibilities and limitations, and practical application of technique in public school work. The study of the instruments of the modern orchestra, their history, technical possibilities and limitations, and practical application of technique in public school work.
Pre-req: (MUS 212 with a minimum grade of C and MUS 214 with a minimum grade of C).
Grade Mode: Normal Grading Mode

MUS 322 Orchestration **2 Credit hours**
A detailed study of band and orchestral instrument capabilities and their use in various large and small ensembles. (PR: MUS 212 and MUS 214) A detailed study of band and orchestral instrument capabilities and their use in various large and small ensembles. (PR: MUS 212 and MUS 214)
Pre-req: MUS 212 and MUS 214.
Grade Mode: Normal Grading Mode

MUS 323 Jazz Arranging/Composing **3 Credit hours**
Fundamental techniques and analysis of jazz masterworks applied to composing and arranging in various instrumental and vocal jazz styles. Orchestration for large and small ensembles. Pre: MUS 307 Fundamental techniques and analysis of jazz masterworks applied to composing and arranging in various instrumental and vocal jazz styles. Orchestration for large and small ensembles. Pre: MUS 307
Pre-req: MUS 217 with a minimum grade of C.
Grade Mode: Normal Grading Mode

MUS 326 Music Industry Law **3 Credit hours**
An introduction to the music industry and relevant areas of contract, copyright, and trademark law.
Pre-req: MUS 327 (may be taken concurrently) with a minimum grade of D.
Concurrent PR: MUS 327
Grade Mode: Normal Grading Mode

MUS 327 Music Business I **2 Credit hours**
A study of the intersection of music and business aimed at developing foundational skills and an understanding of the structure of the music business.
Grade Mode: Normal Grading Mode

MUS 331 Jazz Improvisation III **2 Credit hours**
Advanced skills and techniques. Extended forms, substitute harmonic progressions. Survey of standard bebop literature. Transcription of solos. Performance and elaboration of representative literature. Pre: MUS 232 Advanced skills and techniques. Extended forms, substitute harmonic progressions. Survey of standard bebop literature. Transcription of solos. Performance and elaboration of representative literature. Pre: MUS 232
Pre-req: MUS 232 with a minimum grade of C.
Grade Mode: Normal Grading Mode

MUS 332 Jazz Improvisation IV **2 Credit hours**
Advanced skills, techniques, and performance practices. Compound and extended forms. Survey of post-bebop, free jazz, fusion, and Afro-Carribbean literature. Transcription of solos. Performance of representative literature. Pre: MUS 331 Advanced skills, techniques, and performance practices. Compound and extended forms. Survey of post-bebop, free jazz, fusion, and Afro-Carribbean literature. Transcription of solos. Performance of representative literature. Pre: MUS 331
Pre-req: MUS 331 with a minimum grade of C.
Grade Mode: Normal Grading Mode

MUS 338 Mat & Meth School Mus Pre K-4 **3 Credit hours**
Elementary music education techniques, including movement, song, dance, rhythm, and musicianship. Study of Orff, Kodaly, Dalcroze techniques. Curriculum design and incorporation of music curriculum into elementary curriculum. Field experience required. (PR: EDF 218 and EDF 319) Elementary music education techniques, including movement, song, dance, rhythm, and musicianship. Study of Orff, Kodaly, Dalcroze techniques. Curriculum design and incorporation of music curriculum into elementary curriculum. Field experience required. (PR: EDF 218 and EDF 319)
Pre-req: Admitted to Teacher ED with a score of 4.
Grade Mode: Normal Grading Mode

MUS 339 Mat & Meth Instru Mus 5-12 **3 Credit hours**
Study of curriculum development in the middle and secondary schools and appropriate instrumental materials and methods of presentation of music in grades 5-12. Study of curriculum development in the middle and secondary schools and appropriate instrumental materials and methods of presentation of music in grades 5-12.
Pre-req: Admitted to Teacher ED with a score of 4.
Grade Mode: Normal Grading Mode

MUS 340 Mat & Meth Chor Grn Mus 5-12 **3 Credit hours**
Intensive study of vocal/choral materials. Methods of presentation of music in middle and secondary grades. Curriculum design and incorporation of music curriculum into general curriculum. Field experience required. (PR: EDF 218 and EDF 319) Intensive study of vocal/choral materials. Methods of presentation of music in middle and secondary grades. Curriculum design and incorporation of music curriculum into general curriculum. Field experience required. (PR: EDF 218 and EDF 319)
Pre-req: Admitted to Teacher ED with a score of 4.
Grade Mode: Normal Grading Mode

MUS 342 Mus in Elementary Classroom **3 Credit hours**
Music in the Elementary Classroom. Development of fundamental music reading and performing skills. Materials, procedures, and systems to teach music in grades PreK-6. Relationship of music activities to general classroom curriculum. Music in the Elementary Classroom. Development of funda- mental music reading and performing skills. Materials, procedures, and systems to teach music in grades PreK-6. Relationship of music activities to general classroom curriculum.
Grade Mode: Normal Grading Mode

MUS 350 Guitar Literature I **2 Credit hours**
A survey of the literature for the guitar from c. 1400 to the end of the nineteenth century. (PR: Permission)
Grade Mode: Normal Grading Mode

MUS 351 Guitar Pedagogy I **2 Credit hours**
A survey of guitar pedagogy literature, and a practicum in teaching classical guitar. (PR: Permission)
Grade Mode: Normal Grading Mode

MUS 360 Music History 1730 - 1900 **3 Credit hours**
A study of the history and development of music c. 1730 to c. 1900, including the interaction of music with historical events, world cultures, other arts and philosophy PR: MUS 290 or MUS 260 (Jazz Studies majors only) with a grade of C or better A study of the history and development of music c. 1730 to c. 1900, including the interaction of music with historical events, world cultures, other arts and philosophy PR: MUS 290 or MUS 260 (Jazz Studies majors only) with a grade of C or better
Pre-req: MUS 290 with a minimum grade of C or MUS 250 with a minimum grade of C.
Grade Mode: Normal Grading Mode

MUS 361 Music History Since 1900 **3 Credit hours**
A study of the history and development of music since c. 1900, including the interaction of music with historical events, world cultures, other arts and philosophy PR: MUS 360 with a grade of C or better A study of the history and development of music since c. 1900, including the interaction of music with historical events, world cultures, other arts and philosophy PR: MUS 360 with a grade of C or better
Pre-req: MUS 360 with a minimum grade of C.
Grade Mode: Normal Grading Mode

MUS 371 African Drum & Dance Ens **1 Credit hour**
The African Dumming and Dance Ensemble specializes in performing traditional music of West Africa. This ensemble combines dancing, drumming and singing into a rich cultural experience in non-western music. The ensemble is open to all university students and does not require prior musical training. The African Dumming and Dance Ensemble specializes in performing traditional music of West Africa. This ensemble combines dancing, drumming and singing into a rich cultural experience in non-western music. The ensemble is open to all university students and does not require prior musical training.
Attributes: No Textbook Required
Grade Mode: Normal Grading Mode

MUS 372 Fife and Drum Corps **1 Credit hour**
Performing, marching, uniformed ensemble devoted to the music of the American Revolution and Chief Justice John Marshall. Instruments featured include fifes and drums. Performing, marching, uniformed ensemble devoted to the music of the American Revolution and Chief Justice John Marshall. Instruments featured include fifes and drums.
Attributes: No Textbook Required
Grade Mode: Normal Grading Mode

MUS 374 Irish Ceili Band **1 Credit hour**
Grade Mode: Normal Grading Mode

MUS 376 Recital **1 Credit hour**
Serves as the summative recital for BA Music Education and BA in the Arts, and as the Junior level recital for the BFA. PR: Sophomore Hearing and permission
Attributes: No Textbook Required
Grade Mode: Normal Grading Mode

MUS 379 Advanced Class Piano **1 Credit hour**
Class instruction for experienced students. Development of repertoire ensemble skills, and sightreading. Pre: Completion of MUS 179D, or completion of piano proficiency, or permission of instructor. Class instruction for experienced students. Development of repertoire ensemble skills, and sightreading. Pre: Completion of MUS 179D, or completion of piano proficiency, or permission of instructor.
Pre-req: MUS 179D with a minimum grade of C.
Grade Mode: Normal Grading Mode

MUS 380 Applied Composition **2 Credit hours**
Pre-req: MUS 212 with a minimum grade of C and MUS 214 with a minimum grade of C.
Attributes: No Textbook Required
Grade Mode: Normal Grading Mode

MUS 381 Saxophone **1-2 Credit hours**
Attributes: No Textbook Required
Grade Mode: Normal Grading Mode

MUS 382 Flute **1-2 Credit hours**
Attributes: No Textbook Required
Grade Mode: Normal Grading Mode

MUS 383 Oboe **1-2 Credit hours**
Attributes: No Textbook Required
Grade Mode: Normal Grading Mode

MUS 384 Clarinet **1-2 Credit hours**
Attributes: No Textbook Required
Grade Mode: Normal Grading Mode

MUS 385 Bassoon **1-2 Credit hours**
Attributes: No Textbook Required
Grade Mode: Normal Grading Mode

MUS 386 French Horn **1-2 Credit hours**
Attributes: No Textbook Required
Grade Mode: Normal Grading Mode

MUS 387 Trumpet **1-2 Credit hours**
Attributes: No Textbook Required
Grade Mode: Normal Grading Mode

MUS 388 Trombone **1-2 Credit hours**
Attributes: No Textbook Required
Grade Mode: Normal Grading Mode

MUS 389 Euphonium **1-2 Credit hours**
Attributes: No Textbook Required
Grade Mode: Normal Grading Mode

MUS 390 Tuba **1-2 Credit hours**
Attributes: No Textbook Required
Grade Mode: Normal Grading Mode

MUS 391 Violin **1-2 Credit hours**
Attributes: No Textbook Required
Grade Mode: Normal Grading Mode

MUS 392 Viola **1-2 Credit hours**
Attributes: No Textbook Required
Grade Mode: Normal Grading Mode

MUS 393 Cello **1-2 Credit hours**
Attributes: No Textbook Required
Grade Mode: Normal Grading Mode

MUS 394 String Bass **1-2 Credit hours**
Attributes: No Textbook Required
Grade Mode: Normal Grading Mode

MUS 395 Piano **1-2 Credit hours**
Attributes: No Textbook Required
Grade Mode: Normal Grading Mode

MUS 396 Voice **1-2 Credit hours**
Attributes: No Textbook Required
Grade Mode: Normal Grading Mode

MUS 397 Organ **1-2 Credit hours**
Attributes: No Textbook Required
Grade Mode: Normal Grading Mode

MUS 398 Percussion **1-2 Credit hours**
Attributes: No Textbook Required
Grade Mode: Normal Grading Mode

MUS 399 Guitar **1-2 Credit hours**
Attributes: No Textbook Required
Grade Mode: Normal Grading Mode

MUS 400 Collaborative Composition **2 Credit hours**
Music composition projects proposed, developed, and realized with collaborators in disciplines outside of music including but not exclusive to: visual art/media, theatre, film/video, dance, or video games (PR: Instructor permission)
Grade Mode: Normal Grading Mode

MUS 401 Research in Music **3 Credit hours**
Basic research procedures and bibliography study culminating in a project in the student's area of specialization. Basic research procedures and bibliography study culminating in a project in the student's area of specialization.
Pre-req: MUS 301 with a minimum grade of C and MUS 361 with a minimum grade of C.
Grade Mode: Normal Grading Mode

MUS 402 Chamber Music Pedagogy **2 Credit hours**
A survey of chamber music pedagogy literature, and a practicum in teaching chamber music. (PR: Permission)
Grade Mode: Normal Grading Mode

MUS 403 Choral Union **1 Credit hour**
Large choral ensemble available to university and regional singers without audition. Gives public performances or oratorios and works for chorus and orchestra twice a year. One rehearsal per week. Large choral ensemble available to university and regional singers without audition. Gives public performances or oratorios and works for chorus and orchestra twice a year. One rehearsal per week.
Attributes: No Textbook Required
Grade Mode: Normal Grading Mode

MUS 404 University Chorus **1 Credit hour**
A mixed chorus of 60-90 singers open to all university students without audition. Public performances of a variety of music are given each semester. Three rehearsals per week. A mixed chorus of 60-90 singers open to all university students without audition. Public performances of a variety of music are given each semester. Three rehearsals per week.
Attributes: No Textbook Required
Grade Mode: Normal Grading Mode

MUS 405 A Cappella Ensemble **1 Credit hour**
A mixed a capella ensemble dedicated to the performance of a variety of popular, jazz, and contemporary styles. Open to all students regardless of major. PR: Permission.
Attributes: No Textbook Required
Grade Mode: Normal Grading Mode

MUS 406 Opera Workshop **1 Credit hour**
Preparation and performance of opera scenes and full operas. Membership open to students as singers, pianists, and technical personnel. Roles assigned by audition. Two rehearsals per week plus private coaching. Preparation and performance of opera scenes and full operas. Membership open to students as singers, pianists, and technical personnel. Roles assigned by audition. Two rehearsals per week plus private coaching.
Attributes: No Textbook Required
Grade Mode: Normal Grading Mode

MUS 407 Chamber Choir **1 Credit hour**
Advanced, auditioned choral ensemble open to all university students. Repertoire performed locally and on tour includes great chamber literature of the past five centuries. Three rehearsals per week. Advanced, auditioned choral ensemble open to all university students. Repertoire performed locally and on tour includes great chamber literature of the past five centuries. Three rehearsals per week.
Attributes: No Textbook Required
Grade Mode: Normal Grading Mode

MUS 408 Orchestra **1 Credit hour**
The Marshall Community Orchestra is open to all university students, faculty, and interested musicians in the community with permission of the instructor. Concerts are presented each semester. Rehearsals are held each Tuesday evening. The Marshall Community Orchestra is open to all university students, faculty, and interested musicians in the community with permission of the instructor. Concerts are presented each semester. Rehearsals are held each Tuesday evening.
Attributes: No Textbook Required
Grade Mode: Normal Grading Mode

MUS 412 Jazz Pedagogy and Conducting **3 Credit hours**
Methods and materials for jazz curriculum. Ensemble organization, rehearsal and conducting techniques. Selection of literature and equipment. Organizations and presentation of public performances. PR: MUS 323
Pre-req: MUS 217 with a minimum grade of C.
Grade Mode: Normal Grading Mode

MUS 413 Jazz Styles **2 Credit hours**
Structural forms used in jazz, analysis of extended forms. Techniques for solo transcriptions. Harmonic practices in specific styles. Survey of significant jazz composers, performers, genres. PR: MUS 217
Pre-req: MUS 217 with a minimum grade of C.
Grade Mode: Normal Grading Mode

MUS 414 Music Psy and Learning Theory **3 Credit hours**
Introduction to the psychology of music, human development, and assessment of learning.
Grade Mode: Normal Grading Mode

MUS 415 Advanced Conducting **2 Credit hours**
Advanced study of choral and instrumental conducting techniques emphasizing rehearsal and performance strategies, score study, ensemble warm-ups, asymmetric and changing meters. Lab ensemble experience provided.
Pre-req: MUS 315 with a minimum grade of C.
Grade Mode: Normal Grading Mode

MUS 427 Music Business II **2 Credit hours**
An in-depth examination of the commerical music industry designed at developing business related competencies including entrepreneurship, IP management, legal issues, and contract law; skills essential for maintaining a professional music career.
Pre-req: MUS 227 with a minimum grade of C and MUS 327 with a minimum grade of C and (ENT 220 with a minimum grade of C or LE 306 with a minimum grade of C or MGT 320 with a minimum grade of C or MKT 340 with a minimum grade of C).
Grade Mode: Normal Grading Mode

MUS 428 Song Literature **2 Credit hours**
Grade Mode: Normal Grading Mode

MUS 429 Vocal Pedagogy **2 Credit hours**
Review of materials, concepts and methodology used in teaching singing; overview of anatomy and function of the voice. Emphasis on beginning and intermediate levels. Review of materials, concepts and methodology used in teaching singing; overview of anatomy and function of the voice. Emphasis on beginning and intermediate levels.
Grade Mode: Normal Grading Mode

MUS 432 Music Production **2 Credit hours**
Music production techniques for a variety of genres using a digital audio workstation.
Pre-req: MUS 212 with a minimum grade of C and MUS 214 with a minimum grade of C.
Grade Mode: Normal Grading Mode

MUS 435 Concert Band **1 Credit hour**
A concert band for any undergraduate student who has had experience playing a band instrument in high school or middle school.
Attributes: No Textbook Required
Grade Mode: Normal Grading Mode

MUS 437 Brass Band of the TriState **1 Credit hour**
A community/university ensemble modeled after the British-style brass band.
Grade Mode: Normal Grading Mode

MUS 439 Teaching Advanced Piano **2 Credit hours**
Materials and techniques of presentation; appropriate selection of repertoire; teaching strategies for late intermediate and advanced levels; exploration of pedagogical, business, and wellness resource for the independent piano teacher.
Grade Mode: Normal Grading Mode

MUS 440 Teachin Beg-Intermed Piano **2 Credit hours**
Materials and techniques of presentation; development of reading skills; basic fundamentals of technique; cultivation of musicianship. Emphasis is on elementary and intermediate levels. Materials and techniques of presentation; development of reading skills; basic fundamentals of technique; cultivation of musicianship. Emphasis is on elementary and intermediate levels.
Grade Mode: Normal Grading Mode

MUS 441 Piano Literature I **2 Credit hours**
Pre-req: MUS 216.
Grade Mode: Normal Grading Mode

MUS 445 Piano Ensemble **1 Credit hour**
An ensemble elective for piano majors and qualified piano secondary/ elective students. Perform a wide variety of musical styles for multiple pianists on 1-5 pianos. May be repeated for credit. An ensemble elective for piano majors and qualified piano secondary/elective students. Perform a wide variety of musical styles for multiple pianists on 1-5 pianos. May be repeated for credit.
Attributes: No Textbook Required
Grade Mode: Normal Grading Mode

MUS 450 Guitar Literature II **2 Credit hours**
A survey of the literature for the guitar during the twentieth and twenty-first centuries. (PR: Permission)
Grade Mode: Normal Grading Mode

MUS 451 Guitar Pedagogy II **2 Credit hours**
A survey of guitar pedagogy literature, and a practicum in teaching classical guitar. A survey of guitar pedagogy literature, and a practicum in teaching classical guitar.
Grade Mode: Normal Grading Mode

MUS 452 Cello Ensemble **1 Credit hour**
Cello students will rehearse and perform works from the major literature for cello ensemble. Cello students will rehearse and perform works from the major literature for cello ensemble.
Attributes: No Textbook Required
Grade Mode: Normal Grading Mode

MUS 453 Guitar Ensemble **1 Credit hour**
Attributes: No Textbook Required
Grade Mode: Normal Grading Mode

MUS 454 Flute Ensemble **1 Credit hour**
Performs a wide variety of musical styles from full flute choir to quarters, trios, etc. Membership required of all flute majors; others by audition. One rehearsal per week. Performs a wide variety of musical styles from full flute choir to quarters, trios, etc. Membership required of all flute majors; others by audition. One rehearsal per week.
Attributes: No Textbook Required
Grade Mode: Normal Grading Mode

MUS 455 String Ensemble **1 Credit hour**
Attributes: No Textbook Required
Grade Mode: Normal Grading Mode

MUS 456 Woodwind Ensemble **1 Credit hour**
Attributes: No Textbook Required
Grade Mode: Normal Grading Mode

MUS 457 Percussion Ensemble **1 Credit hour**
Attributes: No Textbook Required
Grade Mode: Normal Grading Mode

MUS 458 Brass Ensemble **1 Credit hour**
Attributes: No Textbook Required
Grade Mode: Normal Grading Mode

MUS 459 Jazz Ensemble **1 Credit hour**
Attributes: No Textbook Required
Grade Mode: Normal Grading Mode

MUS 460 Jazz Improv Ensemble **1 Credit hour**
Ensemble improvisation from duet to tentet. Emphasis on music sightreading, recognition and application of chord/ scale relationships in a performance setting. Ensemble playing skills. May be repeated for credit. Ensemble improvisation from duet to tentet. Emphasis on music sightreading, recognition and application of chord/ scale relationships in a performance setting. Ensemble playing skills. May be repeated for credit.
Attributes: No Textbook Required
Grade Mode: Normal Grading Mode

MUS 465 Symphonic Band **1 Credit hour**
Attributes: No Textbook Required
Grade Mode: Normal Grading Mode

MUS 466 Marching Thunder **1 Credit hour**
Attributes: No Textbook Required
Grade Mode: Normal Grading Mode

MUS 467 Wind Symphony **1 Credit hour**
Attributes: No Textbook Required
Grade Mode: Normal Grading Mode

MUS 468 Sixth Man Band **1 Credit hour**
Attributes: No Textbook Required
Grade Mode: Normal Grading Mode

MUS 469 Contemporary Music Ens **1 Credit hour**
Performance of contemporary music in various media. May be repeated for credit. Counts towards improvisation requirement.
Grade Mode: Normal Grading Mode

MUS 470 Musical Prods Practicum **1 Credit hour**
Application of musical production processes, theories and techniques. Specialized practical experience in all musical aspects of rehearsal and performance. Each number may be taken four times. Application of musical production processes, theories and techniques. Specialized practical experience in all musical aspects of rehearsal and performance. Each number may be taken four times.
Grade Mode: Normal Grading Mode

MUS 476 Senior Recital **0 Credit hours**
The culminating recital for applied music study in the principal applied area.
Pre-req: MUS 376 with a minimum grade of C.
Attributes: No Textbook Required
Grade Mode: Credit/No Credit Grade Only

MUS 479 Applied Pedagogy Lab **1 Credit hour**
Practical application of concepts, methodology, and materials covered to demonstrate efficient and effective teaching in the applied area.
Grade Mode: Normal Grading Mode

MUS 480 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

MUS 481 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

MUS 482 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

MUS 483 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

MUS 485 Independent Study **1-4 Credit hours**
Attributes: No Textbook Required
Grade Mode: Normal Grading Mode

MUS 486 Independent Study **1-4 Credit hours**
Attributes: No Textbook Required
Grade Mode: Normal Grading Mode

MUS 487 Independent Study **1-4 Credit hours**
Attributes: No Textbook Required
Grade Mode: Normal Grading Mode

MUS 488 Independent Study **1-4 Credit hours**
Attributes: No Textbook Required
Grade Mode: Normal Grading Mode

MUS 494 Workshop **1-4 Credit hours**
Grade Mode: Normal Grading Mode

MUS 495 Music Internship **1-4 Credit hours**
Practical synthesis and application of knowledge and skills gained during the student's course of study.
Pre-req: MUS 310 with a minimum grade of C.
Grade Mode: Normal Grading Mode

MUS 496 Musical Theatre Capstone **1 Credit hour**
A culminating Musical Theatre performance and critical self-reflection. Students develop proposals with input from faculty mentor.
Grade Mode: Normal Grading Mode

MUS 497 Capstone Project in Music **1-2 Credit hours**
A discipline-based experience designed to combine classroom and studio education in a summarizing project. (PR: MUS 310, successful completion of piano proficiency requirements)
Pre-req: MUS 310 with a minimum grade of C and (MUS 179D with a minimum grade of C or MUS 279D with a minimum grade of C or Piano Proficiency with a score of 1).
Attributes: Capstone Course, No Textbook Required
Grade Mode: Normal Grading Mode

MUS 498 BFA Composition Capstone **2 Credit hours**
A discipline-based experience designed to combine classroom and studio education in a summarizing project. A discipline-based experience designed to combine classroom and studio education in a summarizing project.
Pre-req: MUS 310 with a minimum grade of C or MUS 376 with a minimum grade of C or (MUS 179D with a minimum grade of C or MUS 279D with a minimum grade of C or Piano Proficiency with a score of 1).
Attributes: Capstone Course, No Textbook Required
Grade Mode: Normal Grading Mode

MUS 499 BFA Performance Capstone **2 Credit hours**
Pre-req: MUS 310 with a minimum grade of C or MUS 376 with a minimum grade of C or (MUS 179D with a minimum grade of C or MUS 279D with a minimum grade of C or Piano Proficiency with a score of 1).
Attributes: Capstone Course, No Textbook Required
Grade Mode: Normal Grading Mode

Commercial Music, B.A.

The Commercial Music major will prepare students for careers in the commercial, jazz and popular music industries as a performer, composer or arranger, while developing skills in entrepreneurship and music business and law. This curriculum will allow the student to excel in commercial aspects of the music industry while attaining musicianship and artistry.

- General Education Course

- Milestone course: a key success marker for your major. See your advisor to discuss the importance of this course in your plan of study.

Major

The Core Curriculum is designed to foster critical thinking skills and introduce students to basic domains of thinking that transcend disciplines. The Core applies to all majors. Information on specific classes in the Core can be found at https://www.marshall.edu/gened/.

Code	Title	Credit Hours
Core Curriculum		
Core 1: Critical Thinking		
FYS 100	First Yr Sem Critical Thinking	3
MTH 121	Concepts and Applications (CT)	3
Critical Thinking		
Core 2		
ENG 101	Beginning Composition	3
ENG 201	Advanced Composition	3
CMM 103	Fund Speech-Communication	3
MTH 121	Concepts and Applications (CT)	3
Core II Natural/Physical Science		
Core II Humanities		
Core II Social Science		
Core II Fine Arts		
Additional University Requirements		
Writing Intensive		3
Writing Intensive		3
Multicultural/International		
MUS 497	Capstone Project in Music	1-2
Core Requirements - Music		
MUS 100	Applied Music Laboratory (8 semesters)	0
MUS 110	The Professional Musician	1
MUS 111	Elementary Music Theory I	2
MUS 112	Elementary Music Theory II	2
MUS 113	Elem Aural Skills I	2
MUS 114	Elem Aural Skills II	2
MUS 211	Advanced Music Theory I	2
MUS 213	Adv Aural Skills I	2
MUS 217	Jazz Theory	4
MUS 227	History of Popular Music	3
MUS 231	Jazz Improvisation I	2
MUS 232	Jazz Improvisation II	2
MUS 250	History of Jazz	3
MUS 315	Basic Conducting	2
MUS 323	Jazz Arranging/Composing	3
MUS 361	Music History Since 1900	3
MUS 412	Jazz Pedagogy and Conducting	3

Major-Specific Requirements		
MUS 218	Intro to Music Technology	3
MUS 219	Digital Recording Techniques	2
MUS 310	Perf Arts Entrepreneurship	1
MUS 326	Music Industry Law	3
MUS 327	Music Business I	2
MUS 427	Music Business II	2
MUS 432	Music Production	2
Piano [1]		
MUS 179A	Class Piano (hours do not count toward degree)	1
MUS 179B	Class Piano (hours do not count toward degree)	1
MUS 279C	Jazz Piano Class (hours do not count toward degree)	1
MUS 279D	Jazz Piano Class (hours do not count toward degree)	1
Applied Study		
8 credits of applied lessons on primary instrument. One credit per semester of study.		
Major Ensemble		**8**
The jazz ensemble or jazz combo serve as the major ensemble for instrumentalists, while the a cappella ensemble serves as the major ensemble for vocalists. A jazz combo section to serve as an ensemble to students whose interests/skill sets are more aligned with commercial music genres (including vocalists). Students also have the opportunity to perform in several secondary ensembles each semester. One credit per semester of study.		
MUS 259	Jazz Ensemble	
MUS 459	Jazz Ensemble	
MUS 460	Jazz Improv Ensemble	
MUS 405	A Cappella Ensemble	
Restricted Electives		
Select one of the following:		3
MUS 200	Introduction to World Music	
MUS 360	Music History 1730 - 1900	
Electives [2]		**1-13**
Recommended Electives from the College of Business:		
MKT 340	MKT Concepts and Applications	
LE 366	Entrep Law & Ethics	
ENT 320	Marketing for Entrepreneurs	

1 Or successful completion of piano proficiency.

2 Up to 6 credits of music coursework (upper division courses only) may be allowed as elective credit. *Music ensembles do not count towards elective credit.*

Course	Title	Credit Hours
First Year		
First Semester		
MUS 100	Applied Music Laboratory	0
MUS 111	Elementary Music Theory I	2
MUS 113	Elem Aural Skills I	2
Applied Lessons, 100 Level		1
Major Ensemble, 200 level		1
MUS 179A	Class Piano	1
UNI 100	Freshman First Class	1
FYS 100	First Yr Sem Critical Thinking	3
Core II Fine Arts		3
MTH 121	Concepts and Applications (CT)	3
	Credit Hours	**17**
Second Semester		
MUS 100	Applied Music Laboratory	0
MUS 110	The Professional Musician	1
MUS 112	Elementary Music Theory II	2
MUS 114	Elem Aural Skills II	2
Applied Lessons, 100 level		1
Major Ensemble, 200 level		1
MUS 179B	Class Piano	1
CMM 103	Fund Speech-Communication	3
ENG 101	Beginning Composition	3
	Credit Hours	**14**
Second Year		
First Semester		
MUS 100	Applied Music Laboratory	0
MUS 211	Advanced Music Theory I	2
MUS 213	Adv Aural Skills I	2
MUS 218	Intro to Music Technology	3
MUS 231	Jazz Improvisation I	2
MUS 279C	Jazz Piano Class	1
Applied Lessons, 100 level		1
Major Ensemble, 200 level		1
ENG 201	Advanced Composition	3
	Credit Hours	**15**
Second Semester		
MUS 100	Applied Music Laboratory	0
MUS 217	Jazz Theory	4
MUS 219	Digital Recording Techniques	2
MUS 227	History of Popular Music	3
MUS 232	Jazz Improvisation II	2
MUS 279B	Jazz Piano Class	1
Applied Lessons, 100 level		1
Major Ensemble, 200 level		1
Elective		1-2
	Credit Hours	**15-16**
Third Year		
First Semester		
MUS 100	Applied Music Laboratory	0
MUS 315	Basic Conducting	2
MUS 323	Jazz Arranging/Composing	3
MUS 326	Music Industry Law	3
MUS 327	Music Business I (corequisite with MUS 326)	2
Applied Lessons, 300 level		1
Major Ensemble, 400 level		1
Elective		3
	Credit Hours	**15**

Second Semester		
MUS 100	Applied Music Laboratory	0
MUS 250	History of Jazz	3
MUS 310	Perf Arts Entrepreneurship	1
MUS 427	Music Business II	2
Applied Lessons, 300 level		1
Major Ensemble, 400 level		
MUS 200 or MUS 360	Introduction to World Music (Restricted Elective) or Music History 1730 - 1900	3
Elective		4
	Credit Hours	**14**
Fourth Year		
First Semester		
MUS 100	Applied Music Laboratory	0
MUS 412	Jazz Pedagogy and Conducting	3
MUS 432	Music Production	2
Applied Lessons, 300 level		1
Major Ensemble, 400 level		1
Core II Natural/Physical Science		4
Elective		3
	Credit Hours	**14**
Second Semester		
MUS 100	Applied Music Laboratory	0
MUS 497	Capstone Project in Music	2
Applied Lessons, 300 level		1
Major Ensemble, 400 level		1
MUS 361	Music History Since 1900	3
Core II Social Science (MC/I, WI)		3
Core II Humanities (CT, WI)		3
Elective		3
	Credit Hours	**16**
	Total Credit Hours	**120-121**

Music, B.A.

Admission and Performance Standards

Students pursuing the Bachelor of Arts with a major in music prepare for numerous careers in the music field. Students combine courses supporting a fundamental knowledge of music content with minor and/or elective courses in fields other than music. Students in the Bachelor of Arts program in Music select an emphasis area from the following: Commercial Music, General Music, Music History, Pedagogy, or Vocal Jazz.

Prospective students who wish to apply for admission to the Bachelor of Arts program must meet the general admission requirements for Marshall University. Students wishing to enroll in the music major must complete an entrance audition.

Students enrolled in the Bachelor of Arts program are required to complete all coursework in the respective majors with a minimum grade of *C*. Course grades of *D* and *F* are not counted toward graduation requirements and must be replaced with a grade of *C* or better before graduation or before using that course as a prerequisite for another required course.

Candidates for graduation must have a Grade Point Average of 2.0 or higher in all work attempted at Marshall University.

Forty (40) credit hours must be earned in courses numbered 300-499.

No courses in the college and major requirements for graduation in the College of Arts and Media may be taken Credit/Non-Credit unless the course is otherwise specified.

Students pursuing the B.A. will complete a capstone project appropriate to their emphasis area and outside field. Projects must be approved by the student's school director and capstone advisor.

Internship

Students may also complete an internship appropriate to their emphasis and outside field.

The curricular structure is designed with enough flexibility that students so desiring could expand a minor into a second major.

- General Education Course

- Milestone course: a key success marker for your major. See your advisor to discuss the importance of this course in your plan of study.

Major

The Core Curriculum is designed to foster critical thinking skills and introduce students to basic domains of thinking that transcend disciplines. The Core applies to all majors. Information on specific classes in the Core can be found at https://www.marshall.edu/gened/.

Code	Title	Credit Hours
Core Curriculum		
Core 1: Critical Thinking		
FYS 100	First Yr Sem Critical Thinking	3
MTH 121	Concepts and Applications (CT)	3
Critical Thinking		3
Core 2		
ENG 101	Beginning Composition	3
ENG 201	Advanced Composition	3
CMM 103	Fund Speech-Communication	3
MTH 121	Concepts and Applications (CT)	3
Core II Natural/Physical Science		4
Core II Humanities		3
Core II Social Science		3
Core II Fine Arts		3
Additional University Requirements		
Writing Intensive		3
Writing Intensive		3
Multicultural/International		3
MUS 497	Capstone Project in Music	1-2
Major Requirements		
Applied 100		1
Applied 100		1

Applied 100		1
Applied 100		1
MUS 110	The Professional Musician	1
MUS 111	Elementary Music Theory I	2
MUS 112	Elementary Music Theory II	2
MUS 113	Elem Aural Skills I	2
MUS 114	Elem Aural Skills II	2
MUS 211	Advanced Music Theory I	2
MUS 213	Adv Aural Skills I	2
MUS 218	Intro to Music Technology	3
MUS 310	Perf Arts Entrepreneurship	1
MUS 497	Capstone Project in Music	1-2
MUS 212	Advanced Music Theory II	2
MUS 214	Adv Aural Skills II	2-4
or MUS 217	Jazz Theory	
MUS 290	Music History to 1750	3
or MUS 250	History of Jazz	
MUS 360	Music History 1730 - 1900	3
or MUS 361	Music History Since 1900	
Ensemble 200 Level		1
Ensemble 200 Level		1
Ensemble 200 Level		1
Ensemble 200 Level		1
Music Emphasis Area Courses		3
Music Emphasis Area Courses		3
Music Emphasis Area Courses		3
Music Emphasis Area Courses		3
Music Emphasis Area Courses		3
MUS 179A	Class Piano	1
MUS 179B	Class Piano	1
MUS 179C	Class Piano	1
MUS 179D	Class Piano	1
Elective [1]		3
Elective [1]		4
Elective [1]		4
Elective [1]		4
Elective [1]		4
Minor Elective		3
Minor Elective		3
Minor Elective		3
Minor Elective		3
Minor Elective		3
MUS 100	Applied Music Laboratory (6 semesters)	0

[1] Electives should account for 17-29 hours, and up to 12 MUS credit hours may be used as these electives. Credit hours per class may vary.

Major Information

- All students desiring entry into the B.A or the music minor must be formally admitted to the music program. This admittance is based upon an audition in the student's major performance area (instrument or voice) and an interview with the area faculty. Students desiring to enter the theory and composition area of emphasis should be prepared to show evidence of music theory study and/or compositions. Students should contact the music office to arrange for an audition and interview.
- Candidates for the B.A. in Music must complete 51 credit hours of study in music.
- Forty (40) credit hours must be earned in courses numbered 300-499.
- All coursework in the music major must be completed with a grade of *C* or above. A course with a grade of *D* or *F* must be repeated with at least a grade of *C* to count for graduation or be used as a prerequisite for another required course.
- Upon completion of the fourth semester of 100 level applied music study in the principal performance medium, students must pass a sophomore hearing to demonstrate achievement of the appropriate applied music level and for admittance to upper division (300-level) applied music study in the principal performance medium. Students are permitted a maximum of two attempts to pass the sophomore hearing.
- Demonstration of piano proficiency is a graduation requirement in all music and music education degree programs. Completing MUS 179D Class Piano with a minimum grade of *C* satisfies this requirement.

Areas of Emphasis

- Commercial Music, Emphasis (http://catalog.marshall.edu/undergraduate/programs-az/arts-media/music/music-ba/commercial-music-emphasis/)
- Music (General), Emphasis (p. 161)
- Music History, Emphasis (p. 161)
- Pedagogy (Music), Emphasis (p. 162)
- Vocal Jazz, Emphasis (p. 162)

- General Education Course

- Milestone course: a key success marker for your major. See your advisor to discuss the importance of this course in your plan of study.

Four Year Plan

Students pursuing the Bachelor of Arts with a major in music prepare for numerous careers in the music field. Students combine courses supporting a fundamental knowledge of music content with minor and/or elective courses in fields other than music. Students in the Bachelor of Arts program in music must select an emphasis area from the following: Commercial Music, General Music, Music History, Pedagogy, or Vocal Jazz.

Course	Title	Credit Hours
First Year		
First Semester		
MUS 100	Applied Music Laboratory	0
MUS 111	Elementary Music Theory I	2
MUS 113	Elem Aural Skills I	2
FYS 100	First Yr Sem Critical Thinking	3
MUS 179A	Class Piano	1
MTH 121	Concepts and Applications (CT)	3
Core II Fine Arts		3

Applied 100		1
Ensemble 200 Level		1
UNI 100	Freshman First Class	1
	Credit Hours	**17**
Second Semester		
MUS 100	Applied Music Laboratory	0
MUS 110	The Professional Musician	1
MUS 112	Elementary Music Theory II	2
MUS 114	Elem Aural Skills II	2
MUS 179B	Class Piano	1
CMM 103	Fund Speech-Communication	3
ENG 101	Beginning Composition	3
Ensemble 200 Level		1
Applied 100		1
	Credit Hours	**14**
Second Year		
First Semester		
MUS 100	Applied Music Laboratory	0
MUS 179C	Class Piano	1
MUS 211	Advanced Music Theory I	2
MUS 213	Adv Aural Skills I	2
ENG 201	Advanced Composition	3
Core II Humanities (CT, WI)		3
Minor Elective		3
Ensemble 200 Level		1
Applied 100		1
	Credit Hours	**16**
Second Semester		
MUS 100	Applied Music Laboratory	0
MUS 179D	Class Piano	1
MUS 212	Advanced Music Theory II	2
MUS 214	Adv Aural Skills II	2
MUS 290 or MUS 250	Music History to 1750 or History of Jazz	3
Non-Music Elective		3
Ensemble 200 Level		1
Applied 100		1
Music Emphasis Area Courses		3
	Credit Hours	**16**
Third Year		
First Semester		
MUS 100	Applied Music Laboratory	0
MUS 218	Intro to Music Technology	3
MUS 360 or MUS 361	Music History 1730 - 1900 or Music History Since 1900	3
Music Emphasis Area Courses		3
Minor Elective		3
Non-Music Elective		4
	Credit Hours	**16**
Second Semester		
MUS 100	Applied Music Laboratory	0
MUS 310	Perf Arts Entrepreneurship	1
Music Emphasis Area Courses		3
Minor Elective		4
Non-Music Elective		4
	Credit Hours	**12**
Fourth Year		
First Semester		
Core II Natural/Physical Science		4
Music Emphasis Area Courses		3
Minor Elective		4
Non-Music Elective		4
	Credit Hours	**15**
Second Semester		
Core II Social Science (MC/I, WI)		3
MUS 497	Capstone Project in Music	1-2
Music Emphasis Area Courses		3
Minor Elective		3
Non-Music Elective		4
	Credit Hours	**14-15**
	Total Credit Hours	**120-121**

Music (General), Emphasis

Major

Students may select any 14-16 credit hours of music (MUS) courses to complete this emphasis area. A minimum of 40 credit hours, out of the minimum 120 required for completion of this degree, must be at the 300 or 400 level.

Music History, Emphasis

- General Education Course

- Milestone course: a key success marker for your major. See your advisor to discuss the importance of this course in your plan of study.

Major

Code	Title	Credit Hours
MUS 200	Introduction to World Music	3
Select one of the following not selected in B.A. Music Requirements:		3
MUS 250	History of Jazz	
MUS 290	Music History to 1750	
MUS 360 or MUS 361	Music History 1730 - 1900 (not selected above) Music History Since 1900	3
MUS 301	Analysis	3
Select one of the following:		1-4
MUS 227	History of Popular Music	
MUS 308	Music and Sound in Film	
MUS 401	Research in Music	
MUS 480	Special Topics	
MUS 481	Special Topics	
MUS 482	Special Topics	
MUS 483	Special Topics	

MUS 485	Independent Study	
MUS 486	Independent Study	
MUS 487	Independent Study	
MUS 488	Independent Study	
Total Credit Hours		**13-16**

A minimum of 40 credit hours, out of the minimum 120 required for completion of this degree, must be at the 300- or 400-level.

Pedagogy (Music), Emphasis

Major

Code	Title	Credit Hours
Applied music (4 semesters, 300-level)		4
Two applied pedagogy courses (in student's applied performance area)		4
Two applied literature courses (in student's applied performance area)		4
MUS 414	Music Psy and Learning Theory	3
MUS 479	Applied Pedagogy Lab	1
Total Credit Hours		**16**

[1] The student's capstone project--MUS 497 Capstone Project in Music--will have a topic related to pedagogy.

A minimum of 40 credit hours, out of the minimum 120 required for completion of this degree, must be at the 300- or 400-level.

Vocal Jazz, Emphasis

Major

Code	Title	Credit Hours
Select 300-level applied voice (4 semesters)		12
MUS 205	A Cappella Ensemble	1
MUS 231	Jazz Improvisation I	2
MUS 260	Jazz Improv Ensemble	1
MUS 312	Vocal Techniques	1
MUS 405	A Cappella Ensemble	1
MUS 412	Jazz Pedagogy and Conducting	3
MUS 460	Jazz Improv Ensemble	1
Select two credits of music electives (upper division)		2
Total Credit Hours		**24**

A minimum of 40 credit hours, out of the minimum 120 required for completion of this degree, must be at the 300- or 400-level.

Music, B.F.A.

The Bachelor of Fine Arts degree with a music major is designed to prepare students for entry into professional musical careers or graduate school.

In addition to this catalog, detailed information regarding program policies and procedures and specific requirements for applied music and ensemble participation can be found on the website at www.marshall.edu/music (http://www.marshall.edu/music/).

1.

Applied Music

Principal Instrument

Following the entrance audition, and upon the recommendation of the area faculty, acceptance into the music or music education major or the music minor will be given by the school director. The student's principal instrument will be the one on which he/she performed the entrance audition.

For music majors, applied music lessons on the principal instrument include one hour of lesson time per week, with two hours minimum of daily preparation expected. For music minors or elective students, applied music lessons include one half-hour of lesson time per week, with one hour minimum of daily preparation expected. All applied music students are expected to attend weekly studio class. Applied music students are not permitted to drop lessons during the course of a term without specific permission from the department chair. This permission is granted only for extraordinary reasons in exceptional cases. Registration for all applied music study requires the permission of the music office. Music majors returning after having not enrolled in applied music study for two or more consecutive semesters must re-audition before permission to continue in the major will be granted.

All music minors and music or music education majors registering for applied music must enroll concurrently in a principal ensemble. If all other ensemble requirements have been met (see "Ensemble Requirements" below), the ensemble should be chosen in consultation with the studio teacher. Elective students registering for applied music may be required by their instructor to enroll concurrently in an ensemble.

1. All music education majors are required to complete 12 credit hours of study on the principal instrument — 6 hours of lower division and 6 hours of upper division. These are earned over 7 different semesters.
2. All music majors enrolled in the jazz studies or performance area of emphasis must complete 16 credit hours of study on the principal instrument — 8 hours of lower division (100 level) and 8 hours of upper division (300 level). These are earned over 8 different semesters.
3. All students enrolled in the theory and composition area of emphasis must complete 4-8 credit hours of study on the principal instrument at the 100 level and 16 credit hours of applied composition - 8 hours of lower division (MUS 180 Applied Composition) and 8 hours of upper division (MUS 380 Applied Composition). These are earned over 8 different semesters. Students in this area of emphasis will complete a sophomore hearing after 8 hours of applied composition study (100 level) by submitting a portfolio of compositions for review. A maximum of two attempts are allowed to pass the sophomore hearing.
4. All students enrolled in the multidisciplinary studies area of emphasis must complete 12 hours of study on the principal instrument–8 hours of lower division (100 level) and 4 hours of upper division (300 level). These are earned over 6 different semesters.

5. All students enrolled in the Bachelor of Arts with a major in Music program must complete 4 lower-division credit hours of study on the principal instrument. These are earned over 4 different semesters. In some BA emphasis areas, additional applied music studies are required.
6. All students pursuing the music minor must complete 4 semesters of study on the principal applied instrument. Continuation of applied study beyond these credits shall occur after consultation with the applied studio teacher. Music minors desiring to continue applied study at the upper division (300 level) must pass a sophomore hearing before permission will be granted.
7. Each applied music student must be approved through jury examination at the end of each semester before registering for additional study on the principal instrument. At the end of the fourth semester, students must complete the sophomore hearing before upper division (5th semester) applied music study may be started. Students not approved for advancement will be required to repeat lower level work until successfully completing the sophomore hearing. Students are permitted a maximum of two attempts to pass the sophomore hearing.
8. Performance on the principal instrument is required at least once each semester on weekly daytime recitals held for this purpose (MUS 100 Applied Music Laboratory). First semester music education majors may be exempted from student recital performance at the discretion of the studio teacher. All senior music and music education majors, and junior B.F.A. majors must give a recital as part of the requirements for graduation. Music Education majors must complete the senior recital before the student teaching semester begins. Approval to plan a recital must be obtained during the jury examination preceding the recital semester. During the junior recital semester, B.F.A. students co-register for applied study on the principal instrument and MUS 376 Recital. During the senior recital semester, B.F.A. students co-register for applied study on the principal instrument and MUS 476 Senior Recital. The capstone course (MUS 497 Capstone Project in Music) is generally taken during the final semester.

Piano Proficiency

All music and music education majors are required to pass a piano proficiency examination as part of the degree requirements. Music education majors must pass the entire proficiency examination prior to beginning the student teaching semester. B.F.A. students must complete the piano proficiency prior to the capstone semester. Piano proficiency may be demonstrated through passing the piano proficiency exam or upon successful completion of MUS 179D Class Piano or MUS 279D Jazz Piano Class.

Theory Placement

A placement test will be given on the first day of theory class Fall and Spring semesters. All students must demonstrate the ability to read bass and treble clefs; identify scales, key signatures, intervals, and triads aurally and in written form, and perform rudimentary melodic and rhythmic dictation. Students needing developmental assistance in theory will be enrolled in MUS 101 Basic Musicianship.

Elective Study

Students may elect applied music study on a secondary instrument, upon the approval of the school director and the studio teacher, and receive one credit hour per semester. Elective lessons provide one half-hour lesson per week and require one hour of daily preparation. These lessons are permitted on a first-come, first-served basis according to availability. In piano, voice, and guitar, special beginning classes are listed in the *Schedule of Courses*. Elective students registering for applied music may be required by their instructor to enroll concurrently in an ensemble.

Capstone Experience

All students registering for the capstone course, MUS 497 Capstone Project in Music, will be required to complete a written and oral comprehensive examination. Students may not register for MUS 497 Capstone Project in Music prior to completing the piano proficiency requirement. Before registering for MUS 497 Capstone Project in Music, students must have completed or co-registered for the final required semester of applied music, MUS 476 Senior Recital (if required), and the final course of the music history sequence.

Ensembles

Students participate in ensembles that are varied both in size and nature and chosen from those appropriate to the area of specialization. With the approval of the ensemble conductor and the academic advisor, a student may enroll in more than one ensemble in a semester. Enrollment in some ensembles requires the permission of the instructor. The actual number of clock hours per week of rehearsal may vary depending on the ensemble. All ensembles receive one semester hour credit.

Principal and Secondary Ensembles

The principal ensembles are Chamber Choir, University Chorus, Jazz Ensemble, University Symphony Orchestra, Symphonic Band, and Wind Symphony. Secondary ensembles are Marching Band, Choral Union, Opera Workshop, Jazz Improvisation Ensemble, Pep Band, chamber ensembles (Brass, Woodwind, Percussion, Guitar, and String), and any others not listed as principal ensembles. Jazz Ensemble counts as a principal ensemble for jazz studies majors only.

Ensemble Requirements

Music Education and Multidisciplinary Studies Majors

All full-time music education and multidisciplinary studies majors are required to participate in ensembles in each semester of residence. Seven semester hours (four lower division and three upper division) in a principal ensemble are required. These must be earned in seven different semesters. All music education majors whose principal applied area is an instrument other than voice are required to complete one semester in a choral ensemble. During the fall semester of the first two years, Marching Band and Orchestra (audition required), Wind Symphony (audition required) or Symphonic Band are corequisites for students whose principal applied area is a wind, brass, or percussion instrument. In the spring of the junior year, these students may petition the school director to substitute University Chorus or Chamber Choir (audition required) for Marching Band during the fall semester of the senior year, during which they also must enroll in a principal ensemble related to their area of principal applied study.

During one fall semester, music education majors whose principal instrument is voice, keyboard, or strings (including guitar) must register concurrently for Marching Band and a principal ensemble related to their area of principal applied study. String performers (including guitar) must complete four semester hours of String Ensemble or Chamber Music. Upon approval of the applied teacher, guitar and keyboard performers may substitute up to two semesters of an

appropriate chamber ensemble or accompanying for two semesters of a principal ensemble.

Performance and Jazz Studies

All full-time performance and jazz studies majors are required to participate in ensembles in each semester of residence. Eight semester hours (four lower division and four upper division) in a principal ensemble are required. These must be earned in eight different semesters. Although not required to do so, wind and percussion performers are encouraged to participate in the Marching Band (fall semester only) following consultation with the applied teacher. String performers must complete four semester hours of String Ensemble or Chamber Music. Upon approval of the applied teacher, guitar and keyboard performers may substitute up to two semesters of an appropriate chamber ensemble or accompanying for two semesters of a principal ensemble.

Theory and Composition Majors

All full-time theory and composition majors are required to participate in ensembles in each semester of residence. Four semester hours of lower-division credit in a principal ensemble are required. These must be earned in four different semesters. Composers may substitute one semester of MUS 270 Musical Prods Practicum for 200-level principal ensemble.

Bachelor of Arts in Music Majors

All full-time BA-Music majors are required to participate in four semesters of a principal ensemble at the 200 level. Additional ensemble requirements vary, according to the student's selection of emphasis area.

Entrance and Program Requirements

Students desiring entry into the B.F.A. degree or the music education program or the music minor must be formally admitted to the music program. This admittance is based upon an audition in the student's major performance area (instrument or voice) and an interview with the area faculty. Students desiring to enter the theory and composition area of emphasis should be prepared to show evidence of music theory study and/or compositions. Students should contact the music office to arrange for an audition and interview. Music majors returning after having not enrolled in applied music study for two or more consecutive semesters must re-audition before permission to continue in the major will be granted. Students should consult the music program website for specific audition requirements for their instrument.

Majors must also satisfy the following program requirements:

1. All coursework in the music and music education majors must be completed with a grade of *C* or above. A course with a grade of *D or F* must be repeated with at least a grade of *C* to count for graduation or be used as a prerequisite for another required course.
2. All music and music education majors are required to pass a piano proficiency examination prior to the capstone semester.
3. A total of 120 credit hours is required for the B.F.A. degree with a music major. In addition to university and degree program requirements listed under the Bachelor of Fine Arts, candidates for the B.F.A. in music must complete 73 credit hours of study in music, divided into the core curriculum of 18 credit hours and 55 credit hours devoted to one of four areas of emphasis.
4. Forty (40) credit hours must be earned in courses numbered 300-499.
5. No course in the major requirements for graduation may be taken Credit/Non-Credit unless the course is so specified.
6. Upon completion of the fourth semester of 100-level applied music study on the principal instrument, students must pass a sophomore hearing for promotion to upper-division (300-level) applied music study on the principal instrument. Students are permitted a maximum of two attempts to pass the sophomore hearing.

Area of Emphasis

- Jazz Studies, Emphasis (p. 164)
- Multidisciplinary Studies (Music), Emphasis (p. 166)
- Performance (Music), Emphasis (p. 168)
- Theory and Composition, Emphasis (p. 170)

Jazz Studies, Emphasis

- General Education Course

- Milestone course: a key success marker for your major. See your advisor to discuss the importance of this course in your plan of study.

Major

The Core Curriculum is designed to foster critical thinking skills and introduce students to basic domains of thinking that transcend disciplines. The Core applies to all majors. Information on specific classes in the Core can be found at https://www.marshall.edu/gened/.

Code	Title	Credit Hours
Core Curriculum		
Core 1: Critical Thinking		
FYS 100	First Yr Sem Critical Thinking	3
MTH 121	Concepts and Applications (CT)	3
Critical Thinking		3
Core 2		
ENG 101	Beginning Composition	3
ENG 201	Advanced Composition	3
CMM 103	Fund Speech-Communication	3
MTH 121	Concepts and Applications (CT)	3
Core II Phys./Natural Science		4
Core II Humanities		3
Core II Social Science		3
Core II Fine Arts		3
Additional University Requirements		
Writing Intensive		3
Writing Intensive		3
Multicultural/International		3
MUS 497	Capstone Project in Music	1-2
Major Requirements		
Applied 100		2

Applied 100		2
Applied 100		2
Applied 100		2
Applied 300		2
Applied 300		2
Applied 300		2
Applied 300		2
Ensemble 200 Level		1
Ensemble 200 Level		1
Ensemble 200 Level		1
Ensemble 200 Level		1
Ensemble 400 Level		1
Ensemble 400 Level		1
Ensemble 400 Level		1
Ensemble 400 Level		1
MUS 110	The Professional Musician	1
MUS 111	Elementary Music Theory I	2
MUS 112	Elementary Music Theory II	2
MUS 113	Elem Aural Skills I	2
MUS 114	Elem Aural Skills II	2
MUS 211	Advanced Music Theory I	2
MUS 213	Adv Aural Skills I	2
MUS 217	Jazz Theory	4
MUS 218	Intro to Music Technology	3
MUS 231	Jazz Improvisation I	2
MUS 232	Jazz Improvisation II	2
MUS 250	History of Jazz	3
MUS 310	Perf Arts Entrepreneurship	1
MUS 323	Jazz Arranging/Composing	3
MUS 331	Jazz Improvisation III	2
MUS 332	Jazz Improvisation IV	2
MUS 360	Music History 1730 - 1900	3
MUS 361	Music History Since 1900	3
MUS 376	Recital	1
MUS 412	Jazz Pedagogy and Conducting	3
MUS 476	Senior Recital	0
MUS 413	Jazz Styles	2
MUS 497	Capstone Project in Music	1-2
Music Elective		2
Music Elective		2
MUS 179A	Class Piano	1
MUS 179B	Class Piano	1
MUS 179C	Class Piano	1
MUS 179D	Class Piano	1
Non-Music Elective		3
Non-Music Elective		3
Non-Music Elective		3
Non-Music Elective		1
MUS 100	Applied Music Laboratory (8 semesters)	0

Major Information

- All students desiring entry into the B.F.A. degree, the music education program, or the music minor must be formally admitted to the music program. This admittance is based upon an audition in the student's major performance area (instrument or voice) and an interview with the area faculty. Students desiring to enter the theory and composition area of emphasis should be prepared to show evidence of music theory study and/ or compositions. Students should contact the music office to arrange for an audition and interview.
- All coursework in the music and music education majors must be completed with a grade of *C* or above. A course with a grade of *D* or *F* must be repeated with at least a grade of *C* to count for graduation or be used as a prerequisite for another required course.
- All music and music education majors are required to pass a piano proficiency examination prior to the capstone semester.
- In addition to university and degree program requirements listed under the Bachelor of Fine Arts, candidates for the B.F.A. in music must complete 73 credit hours of study in music, divided into the core curriculum of 18 credit hours and 55 credit hours devoted to one of four areas of emphasis.
- Forty (40) credit hours must be earned in courses numbered 300-499.
- No course in the major requirements for graduation may be taken Credit/Non-Credit unless the course is so specified.
- Upon completion of the fourth semester of 100-level applied music study on the principal instrument, students must pass a sophomore hearing for promotion to upper-division (300-level) applied music study on the principal instrument.

- General Education Course

- Milestone course: a key success marker for your major. See your advisor to discuss the importance of this course in your plan of study.

Four Year Plan

This major prepares students for careers in their chosen performance medium. Students with this degree have careers as a soloists, chamber musicians, ensemble musicians, and studio teachers. The major focuses on the needs for students who primarily perform in the jazz and contemporary media style. There is an emphasis on becoming an effective improviser and on developing both combo and big band skillsets.

Course	Title	Credit Hours
First Year		
First Semester		
MUS 100	Applied Music Laboratory	0
MUS 111	Elementary Music Theory I	2
MUS 113	Elem Aural Skills I	2
MUS 179A	Class Piano	1
Music Elective		2
FYS 100	First Yr Sem Critical Thinking	3
MTH 121	Concepts and Applications (CT)	3
Ensemble 200 Level		1
Applied 100		2

UNI 100	Freshman First Class	1
	Credit Hours	**17**
Second Semester		
MUS 100	Applied Music Laboratory	0
MUS 110	The Professional Musician	1
MUS 112	Elementary Music Theory II	2
MUS 114	Elem Aural Skills II	2
MUS 179B	Class Piano	1
CMM 103	Fund Speech-Communication	3
ENG 101	Beginning Composition	3
Ensemble 200 Level		1
Applied 100		2
	Credit Hours	**15**
Second Year		
First Semester		
MUS 100	Applied Music Laboratory	0
MUS 179C	Class Piano	1
MUS 211	Advanced Music Theory I	2
MUS 213	Adv Aural Skills I	2
MUS 231	Jazz Improvisation I	2
ENG 201	Advanced Composition	3
Core II Humanities (CT, WI)		3
Ensemble 200 Level		1
Applied 100		2
	Credit Hours	**16**
Second Semester		
MUS 100	Applied Music Laboratory	0
MUS 179D	Class Piano	1
MUS 217	Jazz Theory	4
MUS 232	Jazz Improvisation II	2
MUS 250	History of Jazz	3
Ensemble 200 Level		1
Applied 100		2
Core II Physical/Natural Science		4
	Credit Hours	**17**
Third Year		
First Semester		
MUS 100	Applied Music Laboratory	0
MUS 218	Intro to Music Technology	3
MUS 413	Jazz Styles	2
MUS 331	Jazz Improvisation III	2
MUS 360	Music History 1730 - 1900	3
Ensemble 400 Level		1
Applied 300		2
MUS 412	Jazz Pedagogy and Conducting	3
	Credit Hours	**16**
Second Semester		
MUS 100	Applied Music Laboratory	0
MUS 310	Perf Arts Entrepreneurship	1
MUS 332	Jazz Improvisation IV	2
MUS 361	Music History Since 1900	3
Music Elective		2
Non-Music Elective		3
Ensemble 400 Level		1
Applied 300		2
MUS 376	Recital	1
	Credit Hours	**15**
Fourth Year		
First Semester		
MUS 100	Applied Music Laboratory	0
MUS 323	Jazz Arranging/Composing	3
Core II Fine Arts		3
Ensemble 400 Level		1
Applied 300		2
Non-Music Elective		3
	Credit Hours	**12**
Second Semester		
MUS 100	Applied Music Laboratory	0
MUS 476	Senior Recital	0
MUS 497	Capstone Project in Music	1-2
Core II Social Science (M/I, WI)		3
Non-Music Elective		3
Ensemble 400 Level		1
Applied 300		2
Non-Music Elective		2
	Credit Hours	**12-13**
	Total Credit Hours	**120-121**

Multidisciplinary Studies (Music), Emphasis

- General Education Course

- Milestone course: a key success marker for your major. See your advisor to discuss the importance of this course in your plan of study.

Major

The Core Curriculum is designed to foster critical thinking skills and introduce students to basic domains of thinking that transcend disciplines. The Core applies to all majors. Information on specific classes in the Core can be found at https://www.marshall.edu/gened/.

Code	Title	Credit Hours
Core Curriculum		
Core 1: Critical Thinking		
FYS 100	First Yr Sem Critical Thinking	3
MTH 121	Concepts and Applications (CT)	3
Critical Thinking		3
Core 2		
ENG 101	Beginning Composition	3
ENG 201	Advanced Composition	3
CMM 103	Fund Speech-Communication	3
MTH 121	Concepts and Applications (CT)	3
Core II Phys./Natural Science		4

Core II Humanities		3
Core II Social Science		3
Core II Fine Arts		3
Additional University Requirements		
Writing Intensive		3
Writing Intensive		3
Multicultural/International		3
MUS 497	Capstone Project in Music	1-2
Major Requirements		
Applied 100		2
Applied 100		2
Applied 100		2
Applied 100		2
Applied 300		2
Applied 300		2
Ensemble 200 Level		1
Ensemble 200 Level		1
Ensemble 200 Level		1
Ensemble 200 Level		1
Ensemble 400 Level		1
Ensemble 400 Level		1
Ensemble 400 Level		1
MUS 110	The Professional Musician	1
MUS 111	Elementary Music Theory I	2
MUS 112	Elementary Music Theory II	2
MUS 113	Elem Aural Skills I	2
MUS 114	Elem Aural Skills II	2
MUS 211	Advanced Music Theory I	2
MUS 212	Advanced Music Theory II	2
MUS 214	Adv Aural Skills II	2-4
or MUS 217	Jazz Theory	
MUS 213	Adv Aural Skills I	2
MUS 218	Intro to Music Technology	3
MUS 290	Music History to 1750	3
MUS 301	Analysis	3
MUS 310	Perf Arts Entrepreneurship	1
MUS 315	Basic Conducting	2
MUS 360	Music History 1730 - 1900	3
MUS 361	Music History Since 1900	3
MUS 376	Recital	1
MUS 476	Senior Recital	0
MUS 497	Capstone Project in Music	1-2
Music Elective		2
Music Elective		2
MUS 179A	Class Piano	1
MUS 179B	Class Piano	1
MUS 179C	Class Piano	1
MUS 179D	Class Piano	1
Emphasis Outside of Music		3
Emphasis Outside of Music		3
Emphasis Outside of Music		3
Emphasis Outside of Music		3
Emphasis Outside of Music		4
Non-Music Elective		4
Non-Music Elective		3
Non-Music Elective		1
MUS 100	Applied Music Laboratory (8 semesters)	0

Major Information

- All students desiring entry into the B.F.A. degree, the music education program, or the music minor must be formally admitted to the music program. This admittance is based upon an audition in the student's major performance area (instrument or voice) and an interview with the area faculty. Students desiring to enter the theory and composition area of emphasis should be prepared to show evidence of music theory study and/ or compositions. Students should contact the music office to arrange for an audition and interview.
- All coursework in the music and music education majors must be completed with a grade of *C* or above. A course with a grade of *D* or *F* must be repeated with at least a grade of *C* to count for graduation or be used as a prerequisite for another required course.
- All music and music education majors are required to pass a piano proficiency examination prior to the capstone semester.
- In addition to university and degree program requirements listed under the Bachelor of Fine Arts, candidates for the B.F.A. in music must complete 73 credit hours of study in music, divided into the core curriculum of 18 credit hours and 55 credit hours devoted to one of four areas of emphasis.
- Forty (40) credit hours must be earned in courses numbered 300-499.
- No course in the major requirements for graduation may be taken Credit/Non-Credit unless the course is so specified.
- Upon completion of the fourth semester of 100-level applied music study on the principal instrument, students must pass a sophomore hearing for promotion to upper-division (300-level) applied music study on the principal instrument.

- General Education Course

- Milestone course: a key success marker for your major. See your advisor to discuss the importance of this course in your plan of study.

Four Year Plan

This innovative program allows students to combine, in consultation with their advisors, their passion for music performance with another field of study. For example, a student interested in musical instrument design could combine music with coursework in business, etc. The music curriculum for the degree supports an emphasis in performance.

Course	Title	Credit Hours
First Year		
First Semester		
MUS 100	Applied Music Laboratory	0
MUS 111	Elementary Music Theory I	2
MUS 113	Elem Aural Skills I	2
MUS 179A	Class Piano	1

Music Elective		2
FYS 100	First Yr Sem Critical Thinking	3
MTH 121	Concepts and Applications (CT)	3
Ensemble 200 Level		1
Applied 100		2
UNI 100	Freshman First Class	1
	Credit Hours	**17**

Second Semester

MUS 100	Applied Music Laboratory	0
MUS 110	The Professional Musician	1
MUS 112	Elementary Music Theory II	2
MUS 114	Elem Aural Skills II	2
MUS 179B	Class Piano	1
CMM 103	Fund Speech-Communication	3
ENG 101	Beginning Composition	3
Ensemble 200 Level		1
Applied 100		2
	Credit Hours	**15**

Second Year

First Semester

MUS 100	Applied Music Laboratory	0
MUS 179C	Class Piano	1
MUS 211	Advanced Music Theory I	2
MUS 213	Adv Aural Skills I	2
Music Elective		2
ENG 201	Advanced Composition	3
CT Designated Course (MC/I)		3
Ensemble 200 Level		1
Applied 100		2
	Credit Hours	**16**

Second Semester

MUS 100	Applied Music Laboratory	0
MUS 179D	Class Piano	1
MUS 212	Advanced Music Theory II	2
MUS 214	Adv Aural Skills II	2
MUS 290	Music History to 1750	3
Non-Music Elective		3
Ensemble 200 Level		1
Applied 100		2
	Credit Hours	**14**

Third Year

First Semester

MUS 100	Applied Music Laboratory	0
MUS 360	Music History 1730 - 1900	3
MUS 301	Analysis	3
MUS 315	Basic Conducting	2
Emphasis Outside of Music		3
Ensemble 400 Level		1
Applied 300		2
	Credit Hours	**14**

Second Semester

MUS 100	Applied Music Laboratory	0
MUS 361	Music History Since 1900	3
MUS 218	Intro to Music Technology	3
MUS 310	Perf Arts Entrepreneurship	1
MUS 376	Recital	1
Core II Humanities (WI)		3
Emphasis Outside of Music		3
Ensemble 400 Level		1
Applied 300		2
	Credit Hours	**17**

Fourth Year

First Semester

MUS 100	Applied Music Laboratory	0
Emphasis Ouside of Music		3
Core II Fine Arts		3
Core II Physical/Natural Science		4
Ensemble 400 Level		1
Non-Music Elective		3
	Credit Hours	**14**

Second Semester

MUS 100	Applied Music Laboratory	0
MUS 476	Senior Recital	0
MUS 497	Capstone Project in Music	1-2
Music Improvisation Class		1
Emphasis Outside of Music		3
Non-Music Elective		1
Emphasis Outside of Music		4
Core II Social Science (WI)		3
	Credit Hours	**13-14**
	Total Credit Hours	**120-121**

Performance (Music), Emphasis

- General Education Course

- Milestone course: a key success marker for your major. See your advisor to discuss the importance of this course in your plan of study.

- General Education Course

- Milestone course: a key success marker for your major. See your advisor to discuss the importance of this course in your plan of study.

Major

The Core Curriculum is designed to foster critical thinking skills and introduce students to basic domains of thinking that transcend disciplines. The Core applies to all majors. Information on specific classes in the Core can be found at https://www.marshall.edu/gened/.

Code	Title	Credit Hours
Core Curriculum		
Core 1: Critical Thinking		

FYS 100	First Yr Sem Critical Thinking	3
MTH 121	Concepts and Applications (CT)	3
Critical Thinking		3
Core 2		
ENG 101	Beginning Composition	3
ENG 201	Advanced Composition	3
CMM 103	Fund Speech-Communication	3
MTH 121	Concepts and Applications (CT)	3
Core II Phys./Natural Science		4
Core II Humanities		3
Core II Social Science		3
Core II Fine Arts		3
Additional University Requirements		
Writing Intensive		3
Writing Intensive		3
Multicultural/International		3
MUS 497	Capstone Project in Music	1-2
Major Requirements		
Applied 100		2
Applied 100		2
Applied 100		2
Applied 100		2
Applied 300		2
Applied 300		2
Applied 300		2
Applied 300		2
Ensemble 200 Level		1
Ensemble 200 Level		1
Ensemble 200 Level		1
Ensemble 200 Level		1
Ensemble 400 Level		1
Ensemble 400 Level		1
Ensemble 400 Level		1
Ensemble 400 Level		1
MUS 110	The Professional Musician	1
MUS 111	Elementary Music Theory I	2
MUS 112	Elementary Music Theory II	2
MUS 113	Elem Aural Skills I	2
MUS 114	Elem Aural Skills II	2
MUS 211	Advanced Music Theory I	2
MUS 212	Advanced Music Theory II	2
MUS 213	Adv Aural Skills I	2
MUS 214	Adv Aural Skills II	2
MUS 218	Intro to Music Technology	3
MUS 290	Music History to 1750	3
MUS 301	Analysis	3
or MUS 412	Jazz Pedagogy and Conducting	
MUS 310	Perf Arts Entrepreneurship	1
MUS 315	Basic Conducting	2
MUS 360	Music History 1730 - 1900	3
MUS 361	Music History Since 1900	3
MUS 376	Recital	1
MUS 476	Senior Recital	0
Improvisation Class		1
Music Literature		2
MUS 497	Capstone Project in Music	1-2
MUS 179A	Class Piano	1
MUS 179B	Class Piano	1
MUS 179C	Class Piano	1
MUS 179D	Class Piano	1
Music Elective		3
Music Elective		3
Music Elective		3
Music Elective		1
Non-Music Elective		4
Non-Music Elective		3
Non-Music Elective		3
Non-Music Elective		3
MUS 100	Applied Music Laboratory (8 semesters)	0

Major Information

- All students desiring entry into the B.F.A. degree, the music education program, or the music minor must be formally admitted to the music program. This admittance is based upon an audition in the student's major performance area (instrument or voice) and an interview with the area faculty. Students desiring to enter the theory and composition area of emphasis should be prepared to show evidence of music theory study and/ or compositions. Students should contact the music office to arrange for an audition and interview.
- All coursework in the music and music education majors must be completed with a grade of *C* or above. A course with a grade of *D* or *F* must be repeated with at least a grade of *C* to count for graduation or be used as a prerequisite for another required course.
- All music and music education majors are required to pass a piano proficiency examination prior to the capstone semester.
- In addition to university and degree program requirements listed under the Bachelor of Fine Arts, candidates for the B.F.A. in music must complete 73 credit hours of study in music, divided into the core curriculum of 18 credit hours and 55 credit hours devoted to one of four areas of emphasis.
- Forty (40) credit hours must be earned in courses numbered 300-499.
- No course in the major requirements for graduation may be taken Credit/Non-Credit unless the course is so specified.
- Upon completion of the fourth semester of 100-level applied music study on the principal instrument, students must pass a sophomore hearing for promotion to upper-division (300-level) applied music study on the principal instrument.

- General Education Course

- Milestone course: a key success marker for your major. See your advisor to discuss the importance of this course in your plan of study.

- General Education Course

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Four Year Plan

This major prepares students for careers in their chosen performance medium. Students with this degree have careers as a soloists, chamber musicians, ensemble musicians, and studio teachers.

Course	Title	Credit Hours
First Year		
First Semester		
MUS 100	Applied Music Laboratory	0
MUS 111	Elementary Music Theory I	2
MUS 113	Elem Aural Skills I	2
MUS 179A	Class Piano	1
Music Elective		1
FYS 100	First Yr Sem Critical Thinking	3
MTH 121	Concepts and Applications (CT)	3
Ensemble 200 Level		1
Applied 100		2
UNI 100	Freshman First Class	1
	Credit Hours	**16**
Second Semester		
MUS 100	Applied Music Laboratory	0
MUS 110	The Professional Musician	1
MUS 112	Elementary Music Theory II	2
MUS 114	Elem Aural Skills II	2
MUS 179B	Class Piano	1
CMM 103	Fund Speech-Communication	3
ENG 101	Beginning Composition	3
Ensemble 200 Level		1
Applied 100		2
	Credit Hours	**15**
Second Year		
First Semester		
MUS 100	Applied Music Laboratory	0
MUS 179C	Class Piano	1
MUS 211	Advanced Music Theory I	2
MUS 213	Adv Aural Skills I	2
Non-Music Elective		3
ENG 201	Advanced Composition	3
CT Designated Course (MC/I)		3
Ensemble 200 Level		1
Applied 100		2
	Credit Hours	**17**
Second Semester		
MUS 100	Applied Music Laboratory	0
MUS 179D	Class Piano	1
MUS 212	Advanced Music Theory II	2
MUS 214	Adv Aural Skills II	2
MUS 290	Music History to 1750	3
Non-Music Elective		3
Ensemble 200 Level		1
Applied 100		2
	Credit Hours	**14**
Third Year		
First Semester		
MUS 100	Applied Music Laboratory	0
MUS 218	Intro to Music Technology	3
MUS 360	Music History 1730 - 1900	3
MUS 301	Analysis	3
MUS 315	Basic Conducting	2
Music Elective		3
Ensemble 400 Level		1
Applied 300		2
	Credit Hours	**17**
Second Semester		
MUS 100	Applied Music Laboratory	0
MUS 361	Music History Since 1900	3
MUS 310	Perf Arts Entrepreneurship	1
MUS 376	Recital	1
Core II Humanities (WI)		3
Core II Fine Arts		3
Music Improvisation Class		1
Ensemble 400 Level		1
Applied 300		2
	Credit Hours	**15**
Fourth Year		
First Semester		
MUS 100	Applied Music Laboratory	0
Music Literature		2
Core II Social Science (WI)		3
Core II Physical/Natural Science		4
Ensemble 400 Level		1
Applied 300		2
	Credit Hours	**12**
Second Semester		
MUS 100	Applied Music Laboratory	0
MUS 497	Capstone Project in Music	1-2
Music Elective		3
Music Elective		3
Ensemble 400 Level		1
Applied 300		2
MUS 476	Senior Recital	0
Non-Music Elective		4
	Credit Hours	**14-15**
	Total Credit Hours	**120-121**

Theory and Composition, Emphasis

- General Education Course

- Milestone course: a key success marker for your major. See your advisor to discuss the importance of this course in your plan of study.

- General Education Course

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Major

The Core Curriculum is designed to foster critical thinking skills and introduce students to basic domains of thinking that transcend disciplines. The Core applies to all majors. Information on specific classes in the Core can be found at https://www.marshall.edu/gened/.

Code	Title	Credit Hours
Core Curriculum		
Core 1: Critical Thinking		
FYS 100	First Yr Sem Critical Thinking	3
MTH 121	Concepts and Applications (CT)	3
Critical Thinking		3
Core 2		
ENG 101	Beginning Composition	3
ENG 201	Advanced Composition	3
CMM 103	Fund Speech-Communication	3
MTH 121	Concepts and Applications (CT)	3
Core II Phys./Natural Science		4
Core II Humanities		3
Core II Social Science		3
Core II Fine Arts		3
Additional University Requirements		
Writing Intensive		3
Writing Intensive		3
Multicultural/International		3
MUS 497	Capstone Project in Music	1-2
Major Requirements		
Applied Study on the Principal Instrument (100 level)		1-2
Applied Study on the Principal Instrument (100 level)		1-2
Applied Study on the Principal Instrument (100 level)		1-2
Applied Study on the Principal Instrument (100 level)		1-2
MUS 180	Applied Composition	2
MUS 180	Applied Composition	2
MUS 180	Applied Composition	2
MUS 180	Applied Composition	2
MUS 380	Applied Composition	2
MUS 380	Applied Composition	2
MUS 380	Applied Composition	2
MUS 380	Applied Composition	2
Ensemble 200 Level		1
Ensemble 200 Level		1
Ensemble 200 Level		1
Ensemble 200 Level		1
MUS 110	The Professional Musician	1
MUS 111	Elementary Music Theory I	2
MUS 112	Elementary Music Theory II	2
MUS 113	Elem Aural Skills I	2
MUS 114	Elem Aural Skills II	2
MUS 211	Advanced Music Theory I	2
MUS 212	Advanced Music Theory II [1]	2
MUS 214	Adv Aural Skills II [1]	2
MUS 213	Adv Aural Skills I	2
MUS 218	Intro to Music Technology	3
MUS 290	Music History to 1750	3
MUS 301	Analysis	3
or MUS 412	Jazz Pedagogy and Conducting	
MUS 310	Perf Arts Entrepreneurship	1
MUS 315	Basic Conducting	2
MUS 317	Counterpoint	2
MUS 320	Instrumental Arranging	2
or MUS 322	Orchestration	
MUS 360	Music History 1730 - 1900	3
MUS 361	Music History Since 1900	3
MUS 376	Recital	1
MUS 432	Music Production	2
MUS 476	Senior Recital	0
Improvisation Class		1
MUS 497	Capstone Project in Music	1-2
Music Elective		2
Music Elective		2
MUS 179A	Class Piano	1
MUS 179B	Class Piano	1
MUS 179C	Class Piano	1
MUS 179D	Class Piano	1
Non-Music Elective		4
Non-Music Elective		3
Non-Music Elective		3
Non-Music Elective		3
MUS 100	Applied Music Laboratory (8 semesters)	0

[1] MUS 217, Jazz Theory, 4 hrs., may be substituted for MUS 212 and 214.

Major Information

- All students desiring entry into the B.F.A. degree, the music education program, or the music minor must be formally admitted to the music program. This admittance is based upon an audition in the student's major performance area (instrument or voice) and an interview with the area faculty. Students desiring to enter the theory and composition area of emphasis should be prepared to show evidence of music theory study and/ or compositions. Students should contact the music office to arrange for an audition and interview.
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- All music and music education majors are required to pass a piano proficiency examination prior to the capstone semester.
- In addition to university and degree program requirements listed under the Bachelor of Fine Arts, candidates for the B.F.A. in music must complete 73 credit hours of study in music, divided into the core curriculum of 18 credit hours and 55 credit hours devoted to one of four areas of emphasis.
- Forty (40) credit hours must be earned in courses numbered 300-499.
- No course in the major requirements for graduation may be taken Credit/Non-Credit unless the course is so specified.
- Upon completion of the fourth semester of 100-level applied music study on the principal instrument, students must pass a sophomore hearing for promotion to upper-division (300-level) applied music study on the principal instrument.

- General Education Course

- Milestone course: a key success marker for your major. See your advisor to discuss the importance of this course in your plan of study.

- General Education Course

- Milestone course: a key success marker for your major. See your advisor to discuss the importance of this course in your plan of study.

Four Year Plan

Students who major in theory/composition develop their abilities to create newly composed works as well as develop an in-depth understanding of the theory of the "grammar" of music. Theory/composition majors write original compositions ranging from simple songs to large symphonic works. This degree is excellent preparation for students who desire careers in academic music.

Course	Title	Credit Hours
First Year		
First Semester		
MUS 100	Applied Music Laboratory	0
MUS 111	Elementary Music Theory I	2
MUS 113	Elem Aural Skills I	2
MUS 179A	Class Piano	1
FYS 100	First Yr Sem Critical Thinking	3
MTH 121	Concepts and Applications (CT)	3
MUS 180	Applied Composition	1-2
Ensemble 200 Level		1
Applied 100		2
UNI 100	Freshman First Class	1
	Credit Hours	**16-17**
Second Semester		
MUS 100	Applied Music Laboratory	0
MUS 110	The Professional Musician	1
MUS 112	Elementary Music Theory II	2
MUS 114	Elem Aural Skills II	2
MUS 179B	Class Piano	1
CMM 103	Fund Speech-Communication	3
ENG 101	Beginning Composition	3
MUS 180	Applied Composition	1-2
Ensemble 200 Level		1
Applied 100		2
	Credit Hours	**16-17**
Second Year		
First Semester		
MUS 100	Applied Music Laboratory	0
MUS 179C	Class Piano	1
MUS 211	Advanced Music Theory I	2
MUS 213	Adv Aural Skills I	2
MUS 218	Intro to Music Technology	3
MUS 180	Applied Composition	1-2
Ensemble 200 Level		1
Applied 100		2
ENG 201	Advanced Composition	3
	Credit Hours	**15-16**
Second Semester		
MUS 100	Applied Music Laboratory	0
MUS 179D	Class Piano	1
MUS 212	Advanced Music Theory II	2
MUS 214	Adv Aural Skills II	2
MUS 180	Applied Composition	1-2
MUS 290	Music History to 1750	3
Ensemble 200 Level		1
Applied 100		2
Non-Music Elective		2
	Credit Hours	**14-15**
Third Year		
First Semester		
MUS 100	Applied Music Laboratory	0
MUS 301 or MUS 412	Analysis or Jazz Pedagogy and Conducting	3
MUS 317	Counterpoint	2
MUS 360	Music History 1730 - 1900	3
MUS 315	Basic Conducting	2
MUS 380	Applied Composition	2
Core II Fine Arts		3
	Credit Hours	**15**
Second Semester		
MUS 100	Applied Music Laboratory	0
MUS 376	Recital	1
MUS 310	Perf Arts Entrepreneurship	1
MUS 320 or MUS 322	Instrumental Arranging or Orchestration	2
MUS 361	Music History Since 1900	3
MUS 380	Applied Composition	2
Core II Humanities (WI, CT)		3
Non-Music Elective		3
	Credit Hours	**15**
Fourth Year		
First Semester		
MUS 100	Applied Music Laboratory	0

MUS 380	Applied Composition	2
MUS 432	Music Production	2
Core II Physical/Natural Science		4
Improvisation Class		1
Music Elective		2
Non-Music Elective		3
	Credit Hours	**14**
Second Semester		
MUS 100	Applied Music Laboratory	0
MUS 380	Applied Composition	2
MUS 497	Capstone Project in Music	1-2
Core II Social Science (M/I, WI)		3
Music Elective		2
Non-Music Elective		3
MUS 476	Senior Recital	0
Non-Music Elective		4
	Credit Hours	**15-16**
	Total Credit Hours	**120-125**

Music, Minor

Code	Title	Credit Hours
Core		
MUS 111	Elementary Music Theory I	2
MUS 113	Elem Aural Skills I	2
MUS 142	Music in Society	3
Select four semesters of 100-level applied study on the principal instrument		4
Select four semesters of ensemble relating directly to the principal applied area		4
Electives		
Electives to be chosen in consultation with the student's music advisor.		4
Total Credit Hours		**19**

Students who wish to minor in music should consult with the director of the School of Music for admission and audition requirements.

Music Entrepreneurship, Minor

This minor is for any student who wants to learn how to make their way in the music industry. Students will learn about the structure of the music industry and the interactions among key industry participants, explore the development and commercialization of musical compositions and sound recordings, and gain knowledge about music production, music contracts and law.

Required courses are as follows:

Code	Title	Credit Hours
MUS 219	Digital Recording Techniques	2
MUS 227	History of Popular Music	3
MUS 250	History of Jazz	3
MUS 326	Music Industry Law	3
MUS 327	Music Business I	2
MUS 427	Music Business II	2
Total Credit Hours		**15**

School of Theatre

Contacts: Prof. H. Lang Reynolds, Director
Website: https://www.marshall.edu/theatre/

The mission of the School of Theatre at Marshall University is consistent with its identity as a professionally oriented program within the College of Arts and Media. The School of Theatre at Marshall University offers rigorous Bachelor of Arts and Bachelor of Fine Arts while fostering a broad liberal arts approach to study. Upon completion of their course work, graduates are prepared for entrance into the theatre profession, further studies in competitive graduate programs, related careers in the entertainment industry, and a variety of creative and communications based occupations.

Our educational objective is to foster the development of individuals who can contribute to their profession and the culture as a whole. The program methodology combines foundations in professional craft with high performance standards that reflect the best in professional practices. Programming and coursework are anchored in tradition while at the same time encouraging creative problem solving and attention to contemporary trends. Graduates of the Marshall University School of Theatre are prepared to understand the standards of their field, and the moral, social, political, and personal impact of their work.

The School of Theatre emphasizes preparedness, collaboration, community, curiosity, imagination, cross-cultural perspectives, and respect for the art of theatre and respect for one another. To support our educational mission and objectives the School of Theatre provides:

1. A collaborative training environment in classes and productions that allows for full interdisciplinary interaction between actors, technicians, playwrights, directors, designers, and stage managers.
2. Production opportunities that model staffing, development, and performance standards on professional guidelines
3. Professional outreach opportunities for students
4. Leadership in the area of theatre arts, for the academic and regional communities of which they are an integral part.

Programs

- Dance, Minor (p. 177)
- Theatre, B.A. (p. 177)
- Theatre, B.F.A. (p. 179)
- Theatre, Minor (p. 182)

Courses

- General Education Course

THE 101 Introduction to Theatre **3 Credit hours**
Fundamentals of theatre arts. Fundamentals of theatre arts.
Grade Mode: Normal Grading Mode

THE 111 Introduction to Acting **3 Credit hours**
Explore acting technique through theatre games, exercises, and improvisation. Good vocal skills and effective movement are emphasized. For non majors with little or no training in the acting discipline. Explore acting technique through theatre games, exercises, and improvisation. Good vocal skills and effective movement are emphasized. For non majors with little or no training in the acting discipline.
Grade Mode: Normal Grading Mode

THE 112 Theatre Appreciation **3 Credit hours**
Development of an appreciation and an understanding of theatre as a fine art. For non-theatre majors.
Attributes: Core II Fine Arts
Grade Mode: Normal Grading Mode

THE 112H Theatre Appreciation Honors **3 Credit hours**
Development of an appreciation and an understanding of theatre as a fine art. For honors non-theatre majors.
Pre-req: Admitted Honors College with a score of 1.
Attributes: Core II Fine Arts, Honors
Grade Mode: Normal Grading Mode

THE 201 Crit Analysis Theatre Lit **3 Credit hours**
Critical analysis of theatre texts with emphasis on the successful translation of theatre literature from page to stage. Coursework supports the development and communication of production ideas and aesthetic interpretation. Critical analysis of theatre texts with emphasis on the successful translation of theatre literature from page to stage. Coursework supports the development and communication of production ideas and aesthetic interpretation.
Pre-req: THE 101.
Grade Mode: Normal Grading Mode

THE 220 Stage Movement I: Foundations **3 Credit hours**
Exercises for flexibility, control, body-awareness and alignment. Exercises for flexibility, control, body-awareness and alignment.
Grade Mode: Normal Grading Mode

THE 221 Stage Voice I: Foundations **3 Credit hours**
Vocal techniques for the actor, including the study of dialects. Vocal techniques for the actor, including the study of dialects.
Grade Mode: Normal Grading Mode

THE 222 Acting I: Foundations **3 Credit hours**
Development of skill through foundational exercises. (PR: THE 220 and 221 or permission of instructor.) Development of skill through foundational exercises. (PR: THE 220 and 221 or permission of instructor.)
Pre-req: THE 220 and THE 221.
Grade Mode: Normal Grading Mode

THE 230 Auditioning Techniques **3 Credit hours**
Techniques of auditioning for stage plays and musicals. Techniques of auditioning for stage plays and musicals.
Pre-req: THE 222 with a minimum grade of D.
Grade Mode: Normal Grading Mode

THE 240 Stage Lighting I **4 Credit hours**
Students enrolled in this course learn the terminology, techniques, and principles required to execute lighting designs for theatre, dance and film through "hands-on" experiences and projects.
Grade Mode: Normal Grading Mode

THE 245 Intro to Technical Theatre **4 Credit hours**
Technical production, scenic construction and stage operations are explored including critical application of traditional and current computer technologies within the profession. Lecture and supervised laboratory application links theory with practice.
Grade Mode: Normal Grading Mode

THE 250 Introduction to Costuming **4 Credit hours**
This introductory course exposes students to the elementary principles, techniques, terminology, materials and application used to realize theatrical costumes. A combination of lecture and laboratory instruction links theory with practice. This introductory course exposes students to the elementary principles, techniques, terminology, materials and application used to realize theatrical costumes. A combination of lecture and laboratory instruction links theory with practice.
Grade Mode: Normal Grading Mode

THE 270 Theatre Practicum **1 Credit hour**
Acting, directing, or technical work in Marshall University Theatre productions. Register only with permission of instructor. Open to all students. May be repeated for a total of four hours. Acting, directing, or technical work in Marshall University Theatre productions. Register only with permission of instructor. Open to all students. May be repeated for a total of four hours.
Grade Mode: Normal Grading Mode

THE 280 Special Topics **1-4 Credit hours**
Program of study not normally covered in other courses. Topics vary from semester to semester. Program of study not normally covered in other courses. Topics vary from semester to semester.
Grade Mode: Normal Grading Mode

THE 290 Music Theatre Workshop I **3 Credit hours**
Applied skills in musical theatre for chorus and ensemble roles, including song presentation and integration of musical and dramatic elements. Intended for beginning and intermediate students. Applied skills in musical theatre for chorus and ensemble roles, including song presentation and integration of musical and dramatic elements. Intended for beginning and intermediate students.
Pre-req: THE 101 with a minimum grade of D or THE 111 with a minimum grade of D or THE 112 with a minimum grade of D.
Grade Mode: Normal Grading Mode

THE 295 Sophomore Review **0 Credit hours**
Sophomore Review. 0 hrs. This course is a series of interviews, auditions and assessment instruments designed to determine a student's potential to successfully continue and complete the theatre degree curriculum.
Pre-req: THE 101 with a minimum grade of D and THE 245 with a minimum grade of D and THE 250 with a minimum grade of D.
Grade Mode: Credit/No Credit Grade Only

THE 310 Theatre Management **3 Credit hours**
Theories and practices in performing arts management. An exploration of fiscal and physical management techniques, including budgeting, box office procedures, promotion, and staffing. Theories and practices in performing arts management. An exploration of fiscal and physical management techniques, including budgeting, box office procedures, promotion, and staffing.
Grade Mode: Normal Grading Mode

THE 320 Acting II: Scene Study **3 Credit hours**
Development of skill through exercises and analytical study of scenes. (PR: THE 222 and successful completion of Sophomore Review or permission of instructor.) Development of skill through exercises and analytical study of scenes. (PR: THE 222 and successful completion of Sophomore Review or permission of instructor.)
Pre-req: THE 222.
Grade Mode: Normal Grading Mode

THE 322 Stage Voice II: Dialects **3 Credit hours**
Study and practice of dialects and accents that are commonly used in acting plays. Study and practice of dialects and accents that are commonly used in acting plays.
Pre-req: THE 221.
Grade Mode: Normal Grading Mode

THE 323 Stage Mvmt II: Phys Approaches **3 Credit hours**
Advanced exploration of movement and its application to character development and text. (PR: THE 222 and successful completion of Sophomore Review or permission of instructor.) Advanced exploration of movement and its application to character development and text. (PR: THE 222 and successful completion of Sophomore Review or permission of instructor.)
Pre-req: THE 222.
Grade Mode: Normal Grading Mode

THE 325 Theatre Career Marketing **3 Credit hours**
Examination of strategic marketing and personal branding techniques for designing, enhancing, and promoting a professional image for the theatre artist.
Pre-req: THE 245 with a minimum grade of D.
Grade Mode: Normal Grading Mode

THE 330 Drafting & Rendering **3 Credit hours**
The application of drafting and rendering conventions utilized in the planning and execution of theatrical productions. Mechanical drawing, computer assisted drawing, freehand sketching and color application techniques will be employed.
Pre-req: THE 245.
Grade Mode: Normal Grading Mode

THE 340 Stage Decor **3 Credit hours**
Identification of artistic, historical , social, philosophical and technical influences that diverse cultures offer theatrical designers. Research, critical examination, drawing, digital documentation culminate in the creation of industry standard electronic portfolios.
Grade Mode: Normal Grading Mode

THE 354 Stage Make-up **3 Credit hours**
Development of character make-up designs through analysis, research and application of various make-up media suitable to stage, print and film. Adherence to industry standards of hygiene, sanitation and professional etiquette.
Pre-req: THE 250 with a minimum grade of D.
Grade Mode: Normal Grading Mode

THE 355 Costume Design **3 Credit hours**
Practical and psychological aspects of design. Study of design theory, script analysis, rendering techniques, fabric choices. Development of designs from initial concept to final renderings. Practical and psychological aspects of design. Study of design theory, script analysis, rendering techniques, fabric choices. Development of designs from initial concept to final renderings.
Pre-req: THE 250 with a minimum grade of D.
Grade Mode: Normal Grading Mode

THE 356 Costume Construction **3 Credit hours**
A hands-on approach to the techniques of theatrical costuming. Period method by machine and hand, industrial machine and some pattern making. Work on classroom projects and University productions. A hands-on approach to the techniques of theatrical costuming. Period method by machine and hand, industrial machine and some pattern making. Work on classroom projects and University productions.
Pre-req: THE 250.
Grade Mode: Normal Grading Mode

THE 360 Scene Design I **3 Credit hours**
Practical application of aesthetic and technical principles of scene design for the proscenium stage. Script analysis, production concepts, architectural research, mechanical and AutoCAD drawings, white models, painter's elevations are utilized.
Grade Mode: Normal Grading Mode

THE 361 Scene Painting **3 Credit hours**
Exploration of various techniques utilized by scenic artists including the generation of painter's evaluations, design renderings, estimating scenic demands, media selection and execution of designs in full scale.
Pre-req: THE 360 with a minimum grade of D.
Grade Mode: Normal Grading Mode

THE 362 Stage Management **3 Credit hours**
The responsibilities and duties of stage management are explored to prepare students entering the profession. Principles and practices of stage management are applied through scheduling, budgeting, running, cueing and safety. The responsibilities and duties of stage management are explored to prepare students entering the profession. Principles and practices of stage management are applied through scheduling, budgeting, running, cueing and safety.
Pre-req: THE 240 with a minimum grade of D.
Grade Mode: Normal Grading Mode

THE 370 Theatre Practicum **1 Credit hour**
Acting, directing, or technical work in Marshall University Theatre productions. Register only with permission of instructor. Acting, directing, or technical work in Marshall University Theatre productions. Register only with permission of instructor.
Grade Mode: Normal Grading Mode

THE 390 Music Theatre Workshop II **3 Credit hours**
Applied skills in musical theatre including integration of dance, music, and dialogue in ensemble performance. Intended for students majoring in musical theatre. (repeatable for two semesters)
Pre-req: THE 295.
Grade Mode: Normal Grading Mode

THE 423 Acting Styles **3 Credit hours**
Interpretation of roles from classical, romantic, neoclassical, and modern plays. (PR: THE 222 and successful completion of Sophomore Review or permission of instructor.) Interpretation of roles from classical, romantic, neoclassical, and modern plays. (PR: THE 222 and successful completion of Sophomore Review or permission of instructor.)
Pre-req: THE 222 with a minimum grade of D.
Grade Mode: Normal Grading Mode

THE 430 Auditioning II: Prof. Aspects **3 Credit hours**
Students develop skills and prepare materials for professional acting auditions.
Pre-req: THE 230.
Grade Mode: Normal Grading Mode

THE 436 Children's Theatre **3 Credit hours**
Theory, direction and staging of plays for children. PR: Permission of instructor or Theatre Program Director. May be repeated for a total of 9 hours.
Grade Mode: Normal Grading Mode

THE 437 Directing I **3 Credit hours**
Introduction to theories, principles, techniques, and history of directing. Introduction to theories, principles, techniques, and history of directing.
Pre-req: THE 295 with a minimum grade of D.
Grade Mode: Normal Grading Mode

THE 440 Theatre History To 1660 **3 Credit hours**
Survey of man's activities in the theatre from primitive times to 1660.
Pre-req: THE 101.
Grade Mode: Normal Grading Mode

THE 441 Theatre Hist Since 1660 **3 Credit hours**
Survey of man's activities in the theatre from 1660 to present. Survey of man's activities in the theatre from 1660 to present.
Pre-req: THE 101 with a minimum grade of D.
Grade Mode: Normal Grading Mode

THE 450 Stage Lighting II **3 Credit hours**
Advanced study in lighting design principles utilized for non-proscenium stages and/or impressionistic productions will be emphasized. Combined visual, manual and computer generated documentation will comprise portfolio for final critique.
Pre-req: THE 240 with a minimum grade of D.
Grade Mode: Normal Grading Mode

THE 480 Special Topics **1-4 Credit hours**
Program of study not normally covered in other courses. topics vary from semester to semester. Program of study not normally covered in other courses. topics vary from semester to semester.
Grade Mode: Normal Grading Mode

THE 481 Special Topics **1-4 Credit hours**
Program of study not normally covered in other courses. Topics vary from semester to semester. Program of study not normally covered in other courses. Topics vary from semester to semester.
Grade Mode: Normal Grading Mode

THE 482 Special Topics **1-4 Credit hours**
Program of study not normally covered in other courses. Topics vary from semester to semester. Program of study not normally covered in other courses. Topics vary from semester to semester.
Grade Mode: Normal Grading Mode

THE 483 Special Topics **1-4 Credit hours**
Program of study not normally covered in other courses. Topics vary from semester to semester. Program of study not normally covered in other courses. Topics vary from semester to semester.
Grade Mode: Normal Grading Mode

THE 485 Independent Study **1-4 Credit hours**
Courses taught by tutorials; directed independent readings or research; problem reports, and other activities designed to fill the needs of individual students. Courses taught by tutorials; directed independent readings or research; problem reports, and other activities designed to fill the needs of individual students.
Pre-req: THE 295 with a minimum grade of D.
Grade Mode: Normal Grading Mode

THE 486 Independent Study **1-4 Credit hours**
Courses taught by tutorials; directed independent readings or research; problem reports, and other activities designed to fill the needs of individual students. Courses taught by tutorials; directed independent readings or research; problem reports, and other activities designed to fill the needs of individual students.
Pre-req: THE 295 with a minimum grade of D.
Grade Mode: Normal Grading Mode

THE 487 Independent Study **1-4 Credit hours**
Courses taught by tutorials; directed independent readings or research; problem reports, and other activities designed to fill the needs of individual students. Courses taught by tutorials; directed independent readings or research; problem reports, and other activities designed to fill the needs of individual students.
Pre-req: THE 295 with a minimum grade of D.
Grade Mode: Normal Grading Mode

THE 488 Independent Study **1-4 Credit hours**
Courses taught by tutorials; directed independent readings or research; problem reports, and other activities designed to fill the needs of individual students. Courses taught by tutorials; directed independent readings or research; problem reports, and other activities designed to fill the needs of individual students.
Pre-req: THE 295 with a minimum grade of D.
Grade Mode: Normal Grading Mode

THE 490 Professional Theatre Residency **1-4 Credit hours**
Supervised off-campus contractual work-study arrangement with external agencies or theatrical instructions.
Pre-req: THE 295 with a minimum grade of D.
Grade Mode: Normal Grading Mode

THE 491 Theatre Workshop **1-4 Credit hours**
Practical, participatory courses for advanced students and professionals. Experience in new techniques, theories, and principles
Grade Mode: Normal Grading Mode

THE 492 Theatre Workshop **1-4 Credit hours**
Practical, participatory courses for advanced students and professionals. Experience in new techniques, theories, and principles. Practical, participatory courses for advanced students and professionals. Experience in new techniques, theories, and principles.
Grade Mode: Normal Grading Mode

THE 493 Theatre Workshop **1-4 Credit hours**
Practical, participatory courses for advanced students and professionals. Experience in new techniques, theories, and principles. Practical, participatory courses for advanced students and professionals. Experience in new techniques, theories, and principles.
Grade Mode: Normal Grading Mode

THE 494 Theatre Workshop **1-4 Credit hours**
Practical,participatory courses for advanced students and professionals. Experience in new techniques, theories, and principles. Practical,participatory courses for advanced students and professionals. Experience in new techniques, theories, and principles.
Grade Mode: Normal Grading Mode

THE 499 Senior Capstone Project **3 Credit hours**
The Capstone Project serves to demonstrate the student's proficiency in the major field of study. It is the culmination of coursework in the concentration (performance, directing, design, playwriting, state management, etc.)
Pre-req: THE 295 with a minimum grade of D.
Attributes: Capstone Course
Grade Mode: Normal Grading Mode

Dance, Minor

Students intending to minor in dance should contact the Director of the School of Theatre. The director serves as the dance advisor for students with a minor in dance.

Code	Title	Credit Hours
DAN 230	Ballet Technique	2
DAN 270	Practicum	1
or THE 270	Theatre Practicum	
DAN 316	Modern Jazz Dance	2
DAN 320	Modern Dance Technique	2
THE 240	Stage Lighting I	4
Select six hours of the following:		6
DAN 205	Dance for Musical Theatre	
DAN 210	Tap Dance	
DAN 280	Special Topics	
Or repeat from the Dance courses above		
Total Credit Hours		**17**

Theatre, B.A.

Bachelor Of Arts With A Major In Theatre

Admission and Performance Standards

Prospective students who wish to apply for admission to the Bachelor of Arts program must meet the general admission requirements for Marshall University.

Students enrolled in the Bachelor of Arts program are required to complete all coursework in the respective majors with a minimum grade of *C*. Course grades of *D* and *F* are not counted toward graduation requirements and must be replaced with a grade of *C* or better before graduation or before using that course as a prerequisite for another required course.

Candidates for graduation must have a Grade Point Average of 2.0 or higher in all work attempted at Marshall University.

Forty (40) credit hours must be earned in courses numbered 300-499.

No courses in the college and major requirements for graduation in the College of Arts and Media may be taken Credit/Non-Credit unless the course is otherwise specified.

Students pursuing the B.A. will complete a capstone project appropriate to their emphasis area in theatre and their chosen minor or second major field. Projects must be approved by the student's school director and capstone advisor.

- General Education Course

- Milestone course: a key success marker for your major. See your advisor to discuss the importance of this course in your plan of study.

Major

The Core Curriculum is designed to foster critical thinking skills and introduce students to basic domains of thinking that transcend disciplines. The Core applies to all majors. Information on specific classes in the Core can be found at https://www.marshall.edu/gened/.

Code	Title	Credit Hours
Core Curriculum		
Core 1: Critical Thinking		
FYS 100	First Yr Sem Critical Thinking	3
Critical Thinking		3
Critical Thinking		3
Core 2		
ENG 101	Beginning Composition	3
ENG 201	Advanced Composition	3
CMM 103	Fund Speech-Communication	3
MTH 121	Concepts and Applications (CT)	3
Core II Phys./Natural Science		4
Core II Humanities		3
Core II Social Science		3
Core II Fine Arts		3
Additional University Requirements		
Writing Intensive		3
Writing Intensive		3
Multicultural/International		3
THE 499	Senior Capstone Project	3
Major Requirements		
THE 101	Introduction to Theatre	3
THE 201	Crit Analysis Theatre Lit	3
THE 245	Intro to Technical Theatre	4
THE 250	Introduction to Costuming	4
THE 440	Theatre History To 1660	3
THE 441	Theatre Hist Since 1660	3
THE 499	Senior Capstone Project	3
Select three of the following Restricted THE Electives:		9
THE 220	Stage Movement I: Foundations	
THE 221	Stage Voice I: Foundations	
THE 222	Acting I: Foundations	
THE 240	Stage Lighting I	
THE 330	Drafting & Rendering	
THE 340	Stage Decor	
THE 354	Stage Make-up	
THE Elective		3
THE Elective		3
THE Elective		3
THE Elective		3
THE Elective		3

THE 270	Theatre Practicum	1
THE 270	Theatre Practicum	1
THE 370	Theatre Practicum	1
THE 370	Theatre Practicum	1
Minor Requirement		3
Minor Requirement		3
Minor Requirement		3
Minor Requirement		3
Minor Requirement		3
Minor Requirement		3
Elective Outside of Major		3
Elective Outside of Major		3
Elective Outside of Major		3
Elective Outside of Major		3
Elective Outside of Major		1

Major Information

- B. A. in **Theatre Program Requirements**
  - Students must earn at least 120 credit hours.
  - Theatre Core 36 credit hours, including THE 295 Sophomore Review
  - Theatre Electives 15 credit hours
  - Minor 15-18 credit hours
    - Additional non-Theatre electives 17-29 credit hours
  - Work in conjunction with a Theatre advisor in the selection of classes.

- General Education Course

- Milestone course: a key success marker for your major. See your advisor to discuss the importance of this course in your plan of study.

Four Year Plan

The mission of the School of Theatre at Marshall University is consistent with its identity as a professionally oriented program within the College of Arts and Media. The School of Theatre at Marshall University offers rigorous Bachelor of Arts and Bachelor of Fine Arts while fostering a broad liberal arts approach to study. The Bachelor of Arts in the Arts emphasizes a breadth of content knowledge in Art, Music, or Theatre, augmented by extensive course work outside the discipline. The degree is designed to allow students maximum flexibility by pairing one or more of the arts with one or more outside disciplines.

Course	Title	Credit Hours
First Year		
First Semester		
FYS 100	First Yr Sem Critical Thinking	3
ENG 101	Beginning Composition	3
THE 101	Introduction to Theatre	3
THE 245 or THE 250	Intro to Technical Theatre or Introduction to Costuming	4
Restricted THE Elective		3
UNI 100	Freshman First Class	1
	Credit Hours	**17**
Second Semester		
MTH 121	Concepts and Applications (CT)	3
Core II Fine Arts		3
CMM 103	Fund Speech-Communication	3
THE 245 or THE 250	Intro to Technical Theatre or Introduction to Costuming	4
Restricted THE Elective		3
	Credit Hours	**16**
Second Year		
First Semester		
Core I Critical Thinking		3
ENG 201	Advanced Composition	3
Core II Social Science (CT, MC/I)		3
Restricted THE Elective		3
THE 270	Theatre Practicum	1
Minor Requirement		3
	Credit Hours	**16**
Second Semester		
Core II Humanities (WI)		3
THE 201	Crit Analysis Theatre Lit	3
THE Elective		3
THE 270	Theatre Practicum	1
Elective Outside of Major		3
Minor Requirement		3
	Credit Hours	**16**
Third Year		
First Semester		
Core II Physical/Natural Science		4
THE 440	Theatre History To 1660	3
THE Elective		3
THE 370	Theatre Practicum	1
Minor Requirement		3
Minor Requirement		3
	Credit Hours	**17**
Second Semester		
THE Elective		3
THE Elective		3
THE 370	Theatre Practicum	1
Elective Outside of Major		3
Minor Requirement		3
	Credit Hours	**13**
Fourth Year		
First Semester		
THE 441	Theatre Hist Since 1660	3
THE 499	Senior Capstone Project	3
THE Elective		3
Elective Outside of Major		3
Elective Outside of Major		1
	Credit Hours	**13**
Second Semester		
THE Elective		3
Elective Outside of Major		3

Minor Requirement	3
Writing Intensive	3
Credit Hours	**12**
Total Credit Hours	**120**

Theatre, B.F.A.

Students desiring entry into the B.F.A. degree must be formally admitted to the program following the completion of the Sophomore Review. This admittance is based upon an audition or portfolio review in the student's area of emphasis and an interview with the area faculty. This audition or portfolio review may occur at any time, but typically takes place during the second semester of the student's sophomore year. Theatre majors returning after having not enrolled in theatre study for two or more consecutive semesters must re-audition/interview before permission to continue in the major will be granted. Students should consult the theatre program website for specific audition/portfolio requirements.

Majors must also satisfy the following program requirements:

1. B.F.A. Theatre majors must complete seventy-three (73) credit hours of coursework in theatre and related disciplines in addition to the general distributional requirements and free electives. The theatre courses are divided into the theatre core curriculum of forty-six (46) hours and the student's choice of areas of emphasis (performance or production) with twenty-seven (27) hours.
2. Theatre majors must complete all work in the major with a minimum grade of *C*. A student who receives a *D* or an *F* in a theatre course must repeat it and earn at least a *C* before graduation or before using that course as a prerequisite.
3. B.F.A. Theatre majors must enroll in Theatre Internship (THE 490 Professional Theatre Residency) for a total of four (4) credit hours and successfully complete an approved internship prior to initiating the senior capstone (THE 499 Senior Capstone Project) experience. Internships are approved by the faculty advisor and the school director. Typically, internships take place during the summer months and demonstrate the individual's ability to participate on a regional or national level. Successful completion of an internship requires the student to prepare a resume and audition or portfolio, and through that preparation acquire a position with a theatre-related, professional organization. Summer employment with professional organizations (out-of-state or in-state organizations) holding auditions or interviews at S.E.T.C. or similar regional or national conventions are considered appropriate internships. Substantial skills workshops and studies abroad in theatre (where the application involves competition) may also be considered appropriate internships. Students must make arrangements with the producing organization to provide an evaluation of their work.
4. All students must have completed a minimum of ninety (90) hours of coursework before enrolling in the senior capstone (THE 499 Senior Capstone Project) experience. Students who are juniors must discuss the capstone experience with their advisors prior to the second semester of their junior year.
5. Forty (40) credit hours must be earned in courses numbered 300-499.
6. No course in the major requirements for graduation may be taken Credit/Non-Credit unless the course is so specified.
7. A minimum of 120 credit hours is required for the degree.

In addition to formal coursework, the theatre program provides laboratory experience through productions during the academic year.

Students majoring in theatre will have laboratory/production responsibilities with significant time requirements and commitments outside of class throughout their undergraduate degree program. These responsibilities may impact on the time a student has available for non-academic activities.

Area of Emphasis

- Performance (Theatre), Emphasis (p. 179)
- Production (Theatre), Emphasis (p. 181)

Performance (Theatre), Emphasis

- General Education Course

- Milestone course: a key success marker for your major. See your advisor to discuss the importance of this course in your plan of study.

Major

The Core Curriculum is designed to foster critical thinking skills and introduce students to basic domains of thinking that transcend disciplines. The Core applies to all majors. Information on specific classes in the Core can be found at https://www.marshall.edu/gened/.

Code	Title	Credit Hours
Core Curriculum		
Core 1: Critical Thinking		
FYS 100	First Yr Sem Critical Thinking	3
Critical Thinking		3
Critical Thinking		3
Core 2		
ENG 101	Beginning Composition	3
ENG 201	Advanced Composition	3
CMM 103	Fund Speech-Communication	3
Core II Mathematics		3
Core II Phys./Natural Science		4
Core II Humanities		3
Core II Social Science		3
Core II Fine Arts		3
Additional University Requirements		
THE 499	Senior Capstone Project (Writing Intensive)	3
Writing Intensive		3
Multicultural/International		3
THE 499	Senior Capstone Project	3
Major Requirements		
THE 101	Introduction to Theatre	3
THE 245	Intro to Technical Theatre	4
THE 240	Stage Lighting I	4
THE 250	Introduction to Costuming	4
THE 220	Stage Movement I: Foundations	3
THE 221	Stage Voice I: Foundations	3

THE 222	Acting I: Foundations	3
THE 201	Crit Analysis Theatre Lit	3
THE 440	Theatre History To 1660	3
THE 441	Theatre Hist Since 1660	3
THE 490	Professional Theatre Residency	1-4
THE 499	Senior Capstone Project	3
THE 230	Auditioning Techniques	3
THE 320	Acting II: Scene Study	3
THE 322	Stage Voice II: Dialects	3
THE 423	Acting Styles	3
Elective In Major		3
Elective In Major		3
Elective In Major		3
Elective In Major		3
Elective In Major		3
THE 270	Theatre Practicum	1
THE 270	Theatre Practicum	1
THE 270	Theatre Practicum	1
THE 370	Theatre Practicum	1
THE 370	Theatre Practicum	1
THE 370	Theatre Practicum	1
Elective Outside of Major		3
Elective Outside of Major		3
Elective Outside of Major		3
Elective Outside of Major		3

Major Information

- Students desiring entry into the B.F.A. degree must be formally admitted to the program. This admittance is based upon an audition or portfolio review in the student's area of emphasis and an interview with the area faculty. Theatre majors returning after having not enrolled in theatre study for two or more consecutive semesters must re-audition/interview before permission to continue in the major will be granted. Students should consult the theatre program website for specific audition/portfolio requirements.
- B.F.A. Theatre majors must complete seventy-three (73) credit hours of coursework in theatre and related disciplines in addition to the general distributional requirements and free electives. The theatre courses are divided into the theatre core curriculum of forty-six (46) hours and the student's choice of areas of emphasis (performance or production) with twenty-seven (27) hours.
- Theatre majors must complete all work in the major with a minimum grade of *C*. A student who receives a *D* or an *F* in a theatre course must repeat it and earn at least a *C* before graduation or before using that course as a prerequisite.
- B.F.A. Theatre majors must enroll in Theatre Internship THE 490 Professional Theatre Residency) for a total of four (4) credit hours and successfully complete an approved internship prior to initiating the senior capstone THE 499 Senior Capstone Project) experience. Internships are approved by the faculty advisor and the school director. All students must have completed a minimum of ninety (90) hours of coursework before enrolling in the senior capstone THE 499 Senior Capstone Project experience. Students who are juniors must discuss the capstone experience with their advisors prior to the second semester of their junior year.
- Forty (40) credit hours must be earned in courses numbered 300-499.
- No course in the major requirements for graduation may be taken Credit/Non-Credit unless the course is so specified.

- General Education Course

- Milestone course: a key success marker for your major. See your advisor to discuss the importance of this course in your plan of study.

Four Year Plan

The Marshall University Theatre performance program (BFA degree) takes the conservatory approach to actor training. Using 21st century as well as tried-and-true trends in actor training such as: The Method, The Meisner Approach, Bogart Viewpoints, Alexander Technique, Linklater, and Lessac – students in performance develop their craft according to current expectations in the American theatre, film and television industries. Guided by faculty of outstanding professional creden-tials, Marshall University Theatre students are given careful, individual attention as well as shared insight and mentorship in the practical side of the "business".

Course	Title	Credit Hours
First Year		
First Semester		
FYS 100	First Yr Sem Critical Thinking	3
ENG 101	Beginning Composition	3
THE 101	Introduction to Theatre	3
THE 245 or THE 250	Intro to Technical Theatre or Introduction to Costuming	4
THE 221	Stage Voice I: Foundations	3
UNI 100	Freshman First Class	1
	Credit Hours	**17**
Second Semester		
Core II Mathematics		3
Core II Fine Arts		3
CMM 103	Fund Speech-Communication	3
THE 245 or THE 250	Intro to Technical Theatre or Introduction to Costuming	4
THE 220	Stage Movement I: Foundations	3
THE 270	Theatre Practicum	1
	Credit Hours	**17**
Second Year		
First Semester		
Writing Intensive		3
ENG 201	Advanced Composition	3
THE 222	Acting I: Foundations	3
THE 270	Theatre Practicum	1
THE 201	Crit Analysis Theatre Lit	3
Elective Outside of Major		3
	Credit Hours	**16**
Second Semester		
Core II Humanities (CT/WI)		3
Core II Social Science (CT, MC/I)		3

THE 230	Auditioning Techniques	3
THE 240	Stage Lighting I	4
Elective in Major		3
THE 270	Theatre Practicum	1
	Credit Hours	**17**
Third Year		
First Semester		
THE 440	Theatre History To 1660	3
THE 320	Acting II: Scene Study	3
THE 490	Professional Theatre Residency	3
Elective in Major		3
THE 370	Theatre Practicum	1
	Credit Hours	**13**
Second Semester		
THE 423	Acting Styles	3
THE 322	Stage Voice II: Dialects	3
Elective Outside of Major		4
Elective in Major		3
THE 370	Theatre Practicum	1
	Credit Hours	**14**
Fourth Year		
First Semester		
THE 441	Theatre Hist Since 1660	3
THE 499	Senior Capstone Project	3
Elective Outside of Major		3
Elective in Major		3
THE 370	Theatre Practicum	1
	Credit Hours	**13**
Second Semester		
THE 423	Acting Styles	3
Elective Outside of Major		3
Elective in Major		3
Core II Physical/Natural Science		4
	Credit Hours	**13**
	Total Credit Hours	**120**

Production (Theatre), Emphasis

- General Education Course

- Milestone course: a key success marker for your major. See your advisor to discuss the importance of this course in your plan of study.

The Core Curriculum is designed to foster critical thinking skills and introduce students to basic domains of thinking that transcend disciplines. The Core applies to all majors. Information on specific classes in the Core can be found at https://www.marshall.edu/gened/.

Major

Code	Title	Credit Hours
Core Curriculum		
Core 1: Critical Thinking		
FYS 100	First Yr Sem Critical Thinking	3
Critical Thinking		3
Critical Thinking		3
Core 2		
ENG 101	Beginning Composition	3
ENG 201	Advanced Composition	3
CMM 103	Fund Speech-Communication	3
Core II Mathematics		
Core II Physical/Natural Science		
Core II Humanities		
Core II Social Science		
Core II Fine Arts		
Additional University Requirements		
Writing Intensive		
THE 499	Senior Capstone Project	3
Multicultural/International		
THE 499	Senior Capstone Project	3
Major Requirements		
THE 101	Introduction to Theatre	3
THE 245	Intro to Technical Theatre	4
THE 240	Stage Lighting I	4
THE 250	Introduction to Costuming	4
THE 220	Stage Movement I: Foundations	3
THE 221	Stage Voice I: Foundations	3
THE 222	Acting I: Foundations	3
THE 201	Crit Analysis Theatre Lit	3
THE 440	Theatre History To 1660	3
THE 441	Theatre Hist Since 1660	3
THE 490	Professional Theatre Residency	1-4
THE 499	Senior Capstone Project	3
THE 340	Stage Decor	3
THE 354	Stage Make-up	3
THE 355	Costume Design	3
THE 360	Scene Design I	3
THE 450	Stage Lighting II	3
Elective Outside of Major		3
Elective Outside of Major		3
Elective Outside of Major		3
Elective Outside of Major		3
THE 270	Theatre Practicum	1
THE 270	Theatre Practicum	1
THE 270	Theatre Practicum	1
THE 370	Theatre Practicum	1
THE 370	Theatre Practicum	1
THE 370	Theatre Practicum	1
Elective Outside of Major		3

Elective Outside of Major	3
Elective Outside of Major	3
Elective Outside of Major	3

The production program at Marshall University is centered on the belief that the best theatre experiences are based on the collaborative efforts of well-informed theatre artists. Marshall's production students are presented with a sequential series of courses unique to their chosen discipline. Curricula and carefully crafted production calendars are designed to develop an advanced understanding of the art of theatre, focused study within the discipline and applied production opportunities. The success of this approach is sufficient for us to require that our B.F.A. students apply for, and receive, internships and/or professional contracts in their field of study prior to receiving their degree.

Course	Title	Credit Hours
First Year		
First Semester		
FYS 100	First Yr Sem Critical Thinking	3
ENG 101	Beginning Composition	3
THE 101	Introduction to Theatre	3
THE 245 or THE 250	Intro to Technical Theatre or Introduction to Costuming	4
THE 221	Stage Voice I: Foundations	3
UNI 100	Freshman First Class	1
	Credit Hours	**17**
Second Semester		
Core II Mathematics		3
THE 270	Theatre Practicum	1
CMM 103	Fund Speech-Communication	3
THE 245 or THE 250	Intro to Technical Theatre or Introduction to Costuming	4
THE 220	Stage Movement I: Foundations	3
	Credit Hours	**14**
Second Year		
First Semester		
ENG 201	Advanced Composition	3
Core II Social Science (MC/I, WI)		3
THE 240	Stage Lighting I	4
THE 270	Theatre Practicum	1
THE 340	Stage Decor	3
THE 201	Crit Analysis Theatre Lit	3
	Credit Hours	**17**
Second Semester		
Core II Humanities (CT, WI)		3
THE 201	Crit Analysis Theatre Lit	3
Elective Outside of Major		3
Elective In Major		3
THE 270	Theatre Practicum	1
THE 354	Stage Make-up	3
	Credit Hours	**16**
Third Year		
First Semester		
THE 440	Theatre History To 1660	3
THE 360	Scene Design I	3
THE 490	Professional Theatre Residency	3
Elective In Major		3
THE 370	Theatre Practicum	1
	Credit Hours	**13**
Second Semester		
THE 355	Costume Design	3
Elective Outside of Major		3
THE 450	Stage Lighting II	3
Elective in Major		3
Elective in Major		3
THE 370	Theatre Practicum	1
	Credit Hours	**16**
Fourth Year		
First Semester		
THE 441	Theatre Hist Since 1660	3
THE 499	Senior Capstone Project	3
Elective Outside of Major		3
THE 370	Theatre Practicum	1
Core II Fine Arts		3
	Credit Hours	**13**
Second Semester		
Elective Outside of Major		3
Core II Physical/Natural Science		4
Core I Critical Thinking		3
THE 450	Stage Lighting II	3
	Credit Hours	**13**
	Total Credit Hours	**119**

Theatre, Minor

Students intending to minor in theatre should contact the Director of the School of Theatre. The director serves as the theatre advisor for students with a minor in theatre.

Code	Title	Credit Hours
Core Courses		
THE 101	Introduction to Theatre	3
THE 111	Introduction to Acting	3
Select one of the following:		4
THE 240	Stage Lighting I	
THE 245	Intro to Technical Theatre	
THE 250	Introduction to Costuming	
Select one of the following:		3
THE 201	Crit Analysis Theatre Lit	
THE 440	Theatre History To 1660	
THE 441	Theatre Hist Since 1660	
Elective		
Select one of the following:		4

THE 240	Stage Lighting I
THE 245	Intro to Technical Theatre
THE 250	Introduction to Costuming
THE 220	Stage Movement I: Foundations
THE/DAN 270	Theatre Practicum
THE 221	Stage Voice I: Foundations
THE/DAN 270	Theatre Practicum
Total Credit Hours	**17**

Lewis College of Business

Contacts: Dr. Jeffrey Archambault, Interim Dean;
Website: http://www.marshall.edu/cob (http://www.marshall.edu/cob/)

Dr. Jeffrey Archambault, Interim Dean
Dr. Nancy Lankton, Associate Dean for Accreditation and Strategic Initiatives

Lewis College of Business Vision Statement, Mission Statement and Strategic Priorities

Vision Statement

The Lewis College of Business will grow into a next-generation business school that prepares students to become sought-after business professionals and contributes to the region's economic development.

Mission Statement

The Lewis College of Business empowers students with the skills and knowledge to become successful business professionals in West Virginia and beyond. The college provides a high-quality, innovative business education in a supportive environment that encompasses exemplary teaching, experiential learning, external engagement, and impactful scholarship.

Core Values

- Collegiality
- Curiosity
- Diversity
- Family
- Integrity
- Lifelong Learning
- Resilience
- Service

Strategic Priorities

High-Demand Curriculum

- Health Care Management
- Entrepreneurship
- Energy Management
- Business Analytics
- Supply Chain
- Sustainability Management and Technology
- Tourism and Hospitality

Desired Skill Sets

- Agility and Flexibility
- Creativity
- Analytics
- Communication
- Collaboration
- Leadership
- Ethics
- Social Responsibility

Experiential Learning, External Engagement and Economic Development

- Herd Solutions
- Projects with Companies
- Speaker Series
- Student Competitions
- Student Organizations
- Outreach Centers

Entrepreneurship and Innovation

- Design Thinking
- Intrapreneurship
- Start-up Culture
- Social Entrepreneurship
- Risk Management
- Incubator
- Accelerator
- Eco-system

Global Footprint and Connections

- International Partnerships
- Articulation Programs
- Student Exchanges
- Faculty Exchanges
- Cross-cultural Immersion
- Collaborative Projects
- International Internships
- Study Abroad

Departments

- Department of Accountancy and Legal Environment (p. 189)
- Department of Finance, Economics and International Business (p. 193)
- Department of Management and Health Care Administration (p. 204)
- Department of Marketing, Management Information Systems (MIS) and Entrepreneurship (p. 219)
- Department of Military Science (p. 238)
- General Business, B.A. (p. 239)
- General Business, Minor (p. 241)

General Business, B.A. (p. 239)

General Business, Minor (p. 241)

Admission Requirements

Regular admission to the university constitutes admission to the Brad D. Smith Undergraduate School of Business for entering freshmen and students transferring from other institutions of higher education; there is no separate admissions procedure. Students in other colleges within Marshall University must be eligible to attend Marshall University at the time of transfer into the Lewis College of Business.

Transfer of Credits from Another Institution

When students transfer courses from another institution to Marshall University, the Office of Admissions produces a Transfer Equivalency Worksheet. Advisors in the Academic Advising Center work closely with transfer students to determine how courses taken at other institutions will count toward their B.B.A. or B.A. requirements. Please see the requirements for Transfer Credit for Enrolled Students in the Marshall University Undergraduate Catalog for other details.

Students need to be especially aware of the distinction between upper and lower division credit. The Transfer Equivalency Worksheet may list a Marshall equivalent class as being a 300- or 400-level course; however, the presence of an asterisk (*) just to the left of the course title indicates the student received upper division credit for the course taken at another institution. No asterisk indicates lower division credit. A plus sign to the left of the course title indicates a developmental course. Developmental course hours do not count toward graduation requirements.

All 300- and 400-level business courses required for a B.B.A. or B.A. must be completed at the upper division level. For example: if a student completed Principles of Management at another institution and the course number was taken at the freshman or sophomore level, the Transfer Equivalency Worksheet will list the Marshall equivalent as MGT 320 Principles of Management, which is Principles of Management at Marshall. However, the course completed was a lower division course and the student did not complete the requirement for upper level credit. Therefore, the student would need to retake the course at Marshall for upper division credit or validate the course. For a few courses, the Brad D. Smith Undergraduate School of Business offers a method of validating courses that transfer in as lower division, but require upper division credit. Students who receive lower division credit in the following courses can validate those courses by choosing one of the following options:

- FIN 323 Principles of Finance - Students can
  a. take FIN 343 Intermediate Financial Manage or FIN 370 Principles of Investment and receive a grade of *C* or better;
  b. pass a validation exam given by the Department of Finance, Economics and International Business; or
  c. pass FIN 323 Principles of Finance at Marshall for upper division credit.
- MGT 320 Principles of Management - Students can
  a. take MGT 422 Organizational Behavior and receive a grade of *C* or better;
  b. pass a validation exam given by the Department of Management and Health Care Administration; or
  c. pass MGT 320 Principles of Management at Marshall for upper division credit.
- MKT 340 MKT Concepts and Applications - Students can
  a. take MKT 371 International Marketing and receive a grade of *C* or better;
  b. pass a validation exam given by the Department of Marketing, MIS and Entrepreneurship; or
  c. pass MKT 340 MKT Concepts and Applications at Marshall for upper division credit.

A student who chooses to retake the equivalent course at Marshall can only apply the credit hours from one of the courses towards graduation. Students who have any questions regarding upper or lower division credit or validating a course should see an advisor in the College of Business.

Transfer students should also understand the meaning of the term *unclassified* (UNC) on the Transfer Equivalency Worksheet. Unclassified is a term that reflects the fact that Marshall does not offer a course that is an equivalent of the course taken at the transfer institution. Unclassified does not mean the transfer course will not count toward a degree program at Marshall University. Students may apply unclassified credit toward B.B.A. or B.A. requirements if the course content meets the essential elements needed. In unclassified course credit cases, the academic advisor may ask the student to submit a catalog course description or a syllabus for appropriate approval. Not all unclassified courses may be applied toward a B.B.A. or B.A. degree requirement.

3+2 Program

The 3+2 Program offered by the Lewis College of Business allows students to start their master's degree while still completing their bachelor's degree. The 3+2 Program is available to students enrolled in an undergraduate program in the LCOB. The following graduate programs are available through the 3+2 Program: Master of Business Administration, Master of Science in Accountancy, Master of Science in Health Care Administration, or Master of Science in Human Resource Management. Students enrolled in the program save time and money. Talk to your advisor to see if this program would be beneficial for your academic plans.

Students that meet the requirements that follow may enroll in up to nine hours of graduate coursework while still seniors. Students can double-count up to nine hours of graduate level courses from their graduate degree toward their bachelor's degree requirements. Up to six credit hours of graduate work may count as a major required elective (for example, a graduate MGT class can count as a MGT elective for a Management major) or towards a minor (as approved by the dean's office) or three-nine credit hours may count as free electives. Once all undergraduate requirements are met, students will apply to graduate with their bachelor's degree and apply to be fully admitted to a graduate program.

The 3+2 Program may be especially attractive for accounting majors, who can enroll in the program to meet the requirements for the M.B.A. or M.S.A. while completing the 150 hours required by the state of West Virginia to become a CPA. CPA requirements may differ among states so please research the CPA requirements for the state in which you plan to sit for the exam.

Admission Requirements for Master of Business Administration

Students may apply to the 3+2 Program after all eligibility requirements are met. This typically occurs during the second semester of the junior year. Students must meet the following:

1. Senior status or be able to attain senior status after completion of the semester in which the student is currently enrolled;
2. Have completed all undergraduate foundation courses with a grade of "B" or better in each course by the end of the semester in which the student will be enrolled in the 3+2 Program;

Code	Title	Credit Hours
ACC 215	Accounting Principles (CT)	3
ECN 250	Principles Microeconomics	3
MGT 218	Business Quantitative Methods	3
MKT 340	MKT Concepts and Applications	3
FIN 323	Principles of Finance	3

3. Be reasonably likely to complete all undergraduate degree requirements within two semesters after being admitted to the 3+2 Program;
4. Have an overall undergraduate GPA of 3.0 or better at the time of application.

Admission Requirements for Master of Science in Accountancy

Students may apply to the 3+2 Program after all eligibility requirements are met. This typically occurs during the second semester of the junior year. Students must meet the following:

1. Senior status or be able to attain senior status after completion of the semester in which the student is currently enrolled;
2. Have completed all ACC foundation courses with a grade of "C" or better in each course by the end of the semester in which the student will be enrolled in the 3+2 program or with approval of the department chair:

Code	Title	Credit Hours
ACC 311	Intermediate Accounting I	3
ACC 312	Intermediate Accounting II	3
ACC 318	Cost Accounting I	3
ACC 341	Acc Information Systems	3
ACC 348	Federal Taxation	3
ACC 429	Auditing I	3

3. Be reasonably likely to complete all undergraduate degree requirements within two semesters after being admitted to the 3+2 Program;
4. Have an overall undergraduate GPA of 3.0 or better at the time of application.

Admission Requirements for Master of Science in Health Care Administration

Students may apply to the 3+2 Program after all eligibility requirements are met. This typically occurs during the second semester of the junior year. Students must meet the following:

1. Senior status or be able to attain senior status after completion of the semester in which the student is currently enrolled;
2. Be reasonably likely to complete all undergraduate degree requirements within two semesters after being admitted to the 3+2 Program;
3. Have an overall undergraduate GPA of 3.0 or better at the time of application.

Admission Requirements for Master of Science in Human Resource Management

Students may apply to the 3+2 Program after all eligibility requirements are met. This typically occurs during the second semester of the junior year. Students must meet the following:

1. Senior status or be able to attain senior status after completion of the semester in which the student is currently enrolled;
2. Be reasonably likely to complete all undergraduate degree requirements within two semesters after being admitted to the 3+2 Program;
3. Have an overall undergraduate GPA of 3.0 or better at the time of application.

Academic Policies

Transient Courses

Currently enrolled students planning to take a course within the major requirements (or upper level requirements for a minor in the COB), or MGT 460, at another institution must do so at an institution that is accredited by AACSB or another institution approved by the College of Business dean's office. Students must complete the Transient Course Approval Request and get all required approvals.

Students taking courses at another school must have an official transcript sent from the other school to Marshall. Students taking courses at another school in their last semester must have the transfer work posted to their Marshall transcript by the end of their last semester or the student's graduation may be delayed to the next graduation term.

Probation and Academic Dismissal

The Brad D. Smith Undergraduate School of Business adheres strictly to the University Academic Probation and Suspension Policy found in the "Academic Information" section of this catalog. Students should be aware of the policy. This policy affects all undergraduate students in the LCOB regardless of their catalog year.

Students on academic probation or returning from suspension are required to meet with the Director of Student Services to register for courses and create an Academic Improvement Plan. The student may be required to participate in the college's retention program.

Advising

All students are assigned an academic advisor. The academic advisors for the LCOB are located in the Lewis College of Business Academic Advising Center in CH 334. Students are required to attend mandatory advising during each semester of their freshman year and one time as juniors. As a freshman, the student will receive an advisor hold on their account each semester and will be unable to register until they meet with their advisor. When a student reaches 60-70 earned credit hours, the student will be required to meet with their advisor to complete a Junior/Senior Evaluation. A Junior/Senior Evaluation hold will be placed

on the student's account until he or she meets with the advisor and completes the Junior/Senior Evaluation. The hold will prevent a student from registering.

Although advising is not mandatory every semester, students are highly encouraged to meet with their advisor each semester to ensure that they are staying on track to graduate.

Prerequisites

A prerequisite is a course or student classification which must be successfully completed prior to taking a course for which you may want to enroll. An example is that you must complete ECN 250 Principles Microeconomics before you can take ECN 253 Principles Macroeconomics. The prerequisite must be completed (with a *grade of D* or better) before the first day of class. Accounting majors are required to complete prerequisite accounting courses with a minimum grade of *C* or better. The LCOB strictly enforces prerequisites. Be careful and plan ahead. Students will not be allowed to register for a course if they have not completed, or are not presently completing, the prerequisite course.

Students have the responsibility of checking prerequisites prior to enrollment. **Students may be administratively withdrawn from courses if the prerequisites have not been fulfilled.** Enrollment for MGT 460 Strategic Management requires senior standing and completion of multiple core business courses. Students will not be allowed to take MGT 460 Strategic Management and FIN 323 Principles of Finance in the same semester.

Internships

The purpose of the internship is to provide a means by which students can receive academic credit for educational experiences received in a work environment that cannot be provided by the College of Business. *Students approved for internship credit will actually register for a university course and are required to pay tuition for the credits they receive*. All proposals for an internship must clearly identify the educational benefits that will accrue to the student before the internship will be approved.

A student may earn up to a maximum of 12 credit hours of internship credit. A maximum of 6 credit hours can be earned in one semester. A maximum of 6 credit hours may count toward the 120 credit hours required to graduate. Every 200 hours worked equals three credit hours. Internship credit may be earned during regular semesters or summer sessions. Students must register for internship credit during the semester in which they are working the internship. A grade of Credit/No Credit will be assigned by the department chair upon completion of internship requirements. Students may be required to submit a journal or report of their experience. Internship credit counts as free electives.

Please see your academic advisor for information on how to get an internship approved for course credit.

Independent Study

The Brad D. Smith Undergraduate School of Business offers the option of Independent Study to selected students who wish to pursue topics that are business-related but not covered in depth in formal Brad D. Smith Undergraduate School of Business courses. Each student can obtain a maximum of eight (8) hours of Independent Study credit within the LCOB, and can earn no more than four (4) hours of such credit in any one semester.

In order to register for Independent Study in a given semester (provided the above hour limits have not been reached), the following conditions must be met:

1. LCOB students with senior standing who have 2.5 or higher in overall, Marshall, and major GPAs or with permission from the department chair.
2. LCOB students with junior standing who have 3.0 or higher in overall, Marshall, and major GPAs or with permission from the department chair.
3. An instructor within the student's major division must agree to be his/her Project Supervisor. The faculty member's agreement to serve in this capacity will be contingent upon his/her assessment of the feasibility and quality of the student's proposed project.
4. Written approval for the project and written approval for Independent Study registration must then be obtained from the student's department chair. Department chair's approval will be contingent upon his/her assessment of the feasibility and quality of the student's proposed project, in consultation with the student's proposed project supervisor.

MIS 200 Business Computer Applications Waiver

Students who complete Microsoft Certifications may apply to have MIS 200 waived. To apply, the student will need to meet with his/her academic advisor and provide documentation of their completed Microsoft Certifications. In order to have MIS 200 waived, the student must have completed a minimum of a Microsoft Certification in Microsoft Excel and one additional Microsoft Certification. Students are not awarded credit hours for MIS 200 through this process (the course requirement is waived). Waiving MIS 200 is only applicable for majors in the College of Business. Other majors will need to consult with their academic advisor to see if their program offers a similar option.

Degree Requirements

Graduation Requirements

The following general requirements must be met by all students seeking bachelor's degrees through the Brad D. Smith Undergraduate School of Business:

1. Satisfaction of all university requirements for graduation.
2. Completion of all curricular requirements specified for the major and degree.
3. Completion of the following residency requirements:
   a. Earn at least 36 semester hours at Marshall.
   b. Earn at least 12 hours of senior level coursework in the Lewis College of Business at Marshall.
   c. Earn at least 15 hours in the major field at Marshall.
   d. Earn at Marshall 16 or more of the last 32 hours credited toward the degree.
4. Earn at least a 2.0 Grade Point Average (GPA) in each of the following three categories:
   a. All coursework attempted at Marshall and elsewhere.
   b. All Marshall coursework.
   c. All coursework attempted and included in the major(s) at Marshall.
5. Successful validation of transfer work as required.
6. Removal of all incompletes.

7. At most, 18 semester hours of coursework (consisting only of general education requirements and/or free electives) taken under the Credit/No Credit option may be applied toward graduation requirements. College of Business and other courses in your major may not be taken on a Credit/No Credit basis.
8. All candidates for graduation should file an Application for Graduation form in the semester PRIOR to the semester in which all requirements for the degree are to be met. This will enable the student to make all necessary schedule adjustments to correct potential graduation deficiencies in the final semester.

To ensure graduation at the end of the term of application, all records should be documented with needed transcripts, substitution forms, grade changes, and lower division validations.

Additional College of Business Course Requirements for Undergraduate Degrees

(Requirements vary for some programs. See major-specific requirements for details.)

Code	Title	Credit Hours
Additional College Requirements		
ENG 204	Writing for the Workplace	3
Communication Studies Elective (select one)		3
CMM 302	Professional Presentations	
CMM 308	Persuasive Communication	
CMM 315	Group Communication	
CMM 319	Superior-Subordinate Comm	
CMM 322	Intercultural Communication	
International Business Elective (select one)		3
ECN 421	Global Macroeconomic Analysis	
ECN 408	Comparative Econ Systems	
ECN 420	International Trade	
ECN 460	Economic of Dev Countries	
FIN 440	International Fin Management	
MGT 445	International Management	
MKT 371	International Marketing	
Core Business Requirements		
All business majors are required to take several core business courses. They are as follows:		
CMM 207	Bus & Prof Communication [1]	3
ENG 204	Writing for the Workplace	3
ACC 215	Accounting Principles (CT)	3
ACC 216	Principles of Accounting	3
ECN 250	Principles Microeconomics	3
ECN 253	Principles Macroeconomics	3
FIN 323	Principles of Finance	3
LE 207	Legal Environ of Business	3
MGT 218	Business Quantitative Methods	3
MGT 320	Principles of Management	3
MGT 460	Strategic Management	3
MIS 200	Bus Computer Applications	3
MIS 290	Prin Management Info Systems	3
MKT 340	MKT Concepts and Applications	3

[1] Course also meets university core curriculum requirement.

ADDITIONAL UNIVERSITY REQUIREMENTS:

Writing Intensive:

Students must select 6 hours of courses designated as Writing Intensive. LCOB students are able to double-count ENG 204 (Writing in the Workplace) as one of their Writing Intensive courses. The business capstone course, MGT 460 (Strategic Management) will also double-count as a Writing Intensive course. MGT 460 and ENG 204 must be taken at Marshall in order to meet the Writing Intensive Requirement. If one or both courses are taken at another school, additional courses will be required at Marshall for the student to fulfill the Writing Intensive requirement.

Multicultural/International

This requirement will be met when the student completes the International LCOB Elective (see "Additional College Requirements" section above).

Free Electives

Students must complete at least 120 hours to graduate with a B.B.A. The number of free elective hours you will need to complete depends on your major, the number of hours you take to fulfill your math and composition requirements, and if you double-count any general education requirements.

Free electives are any course that is 100-level or above that are not already required for the program of study. Please note that developmental courses (098, 099, etc.) do not count toward completion of free electives or the 120-hour graduation requirement. If you earn a "C" or better in a course and repeat it, that is considered a Repeat Passing Grade. If you earn a "D" in a course that is not eligible as a D/F Repeat under the D/F Repeat Policy, the repeat is also considered a Repeat Passing Grade. Repeat Passing Grade hours cannot count toward the 120 hours needed for graduation and must be manually subtracted from the overall hours completed toward graduation. Please see the "Academic Information" section of the catalog for more information on D/F Repeats.

Double-Counting

Any course that meets more than one graduation requirement (excluding free electives) can be double counted, if applicable. For example, CL 210 double-counts as Critical Thinking (CT) and Humanities. When completed at Marshall, PSY 201 double-counts as a Social Science and a Critical Thinking (CT) course. Because you must have a minimum of 120 credit hours to receive a degree, double-counting will increase the number of free electives you will need. Therefore, if you take a class that meets two graduation requirements, you will then take additional free elective hours in place of the second course requirement. Please see the specific requirements for your major for any restrictions on double-counting.

MAJOR COURSE REQUIREMENTS

The courses required for each major are listed in the following sections. Students are required to have a 2.0 GPA in their major,

in addition to their Overall GPA and Marshall GPA. If you have any questions about how GPAs are calculated, please consult with your advisor.

Accountancy And Legal Environment

Jeffrey Archambault
Professor and Interim Dean
Ph.D., Michigan State University, 1992

Marie Archambault
Associate Professor
Ph.D., Michigan State University, 1992

Casey Baker
Assistant Professor
J.D., The Ohio State University, 2008

Timothy Bryan
Assistant Professor
D.B.A., Jacksonville University, 2019

Raymond Keener
Associate Professor
J.D., Georgetown University, 1990

Susan Lanham
Associate Professor
Ph.D., Northcentral University, 2013

Nancy Lankton
Professor and Associate Dean
Ph.D., Arizona State University, 2000

Amanda Meadows
Instructor
M.B.A., University of Charleston, 2005

Thomas Norton
Assistant Professor
J.D., West Virginia University, 2013

Jean Price
Professor and Chair
Ph.D., Indiana University, 1987

Charles Stivason
Associate Professor
Ph.D., Virginia Tech, 1998

Amanda Thompson-Abbott
Assistant Professor
D.B.A., University of South Florida, 2020

Finance, Economics and International Business

Jacqueline Agesa
Professor
Ph.D., University of Wisconsin-Milwaukee, 1996

Richard Agesa
Professor
Ph.D., University of Wisconsin-Milwaukee, 1996

Nabaneeta Biswas
Assistant Professor
Ph.D., University of Georgia, 2017

Yi Duan
Assistant Professor
Ph.D., University of Oklahoma, 2017

Bo Feng
Assistant Professor
Ph.D., The Ohio State University, 2018

Mohammad Karim
Associate Professor
Ph.D., University of Texas at El Paso, 2012

Robin McCutcheon
Professor
Ph.D., Wayne State University, 2009

Mohammad Uddin
Assistant Professor
Ph.D., University of Texas at Arlington, 2014

Boniface Yemba
Assistant Professor
Ph.D., University of Kansas, 2015

Shaorong Zhang
Associate Professor and Chair
Ph.D., University of Missouri - Columbia, 2004

Management and Health Care Administration

Dan Chen
Assistant Professor
Ph.D., University of Texas at Arlington, 2022

Alberto Coustasse-Henecke
Professor
Ph.D., University of North Texas, 2004

Dennis Emmett
Professor
Ph.D., Kent State University, 1978

Daesung Ha
Professor
Ph.D., Penn State University, 1970

Jamey Halleck
Assistant Professor
D.B.A., Kennesaw State University, 2019

Kevin Knotts
Assistant Professor
Ph.D., West Virginia University, 2018

Uyi Lawani
Associate Professor
Ph.D., University of North Texas, 2014

Doohee Lee

Professor
Ph.D., University of Texas Health Science Center at Houston, 1999

Marjorie McInerney
Professor and Director
Ph.D., Ohio State University, 1983

Ralph McKinney
Associate Professor
Ph.D., Ashton Business School, 2008

Ivan Muslin
Associate Professor
Ph.D., University of Memphis, 2011

Margie Phillips
Instructor
M.S., Marshall University, 1996

Marc Sollosy
Associate Professor
D.B.A., Kennesaw State University, 2013

Deepak Subedi
Professor and Chair
Ph.D., University of Toledo, 2004

William Willis
Assistant Professor
Ph.D., University of Kentucky, 2012

Jingran Zhang
Assistant Professor
Ph.D., New Jersey Institute of Technology, 2017

Marketing, MIS And Entrepreneurship

Elizabeth Alexander
Professor and Chair
Ph.D., University of Kentucky, 2000

Bennie Eng
Associate Professor
Ph.D., Southern Illinois University, 2014

Monisha Gupta
Assistant Professor
Ph.D., Dr. C V Raman University, 2019

Anil Gurung
Professor
Ph.D., University of Texas, 2006

Jennifer Mak
Professor
Ph.D., Indiana University, 2000

Rex McClure
Associate Professor
Ph.D., Southern Illinois University, 2007

Lei Ouyang
Assistant Professor
Ph.D., University of Northern Colorado, 2020

Jungsu Ryu
Assistant Professor
Ph.D., Texas A&M University, 2017

Dale Shao
Professor
Ph.D., Georgia State University, 1989

Uday Tate
Professor
Ph.D., University of Tennessee, 1983

Ricky Weible
Professor
Ph.D., Mississippi State University, 1993

Olen York
Instructor
J.D., The University of Akron, 2001

Military Science

MSG Mark Taylor
Senior Military Instructor

LTC Chad Peltier
Professor

SFC John (Weston) Gordon
Military Instructor/WVNG Liaison

Alexis Arnold
Military Science Instructor

Department of Accountancy and Legal Environment

Contacts: Dr. Jean Price Department Chair, price91@marshall.edu;
Website: http://www.marshall.edu/cob (http://www.marshall.edu/cob/)

Programs

- Accounting, B.B.A. (p. 191)
- Accounting, Minor (p. 193)
- Legal Environment, Minor (p. 193)

Courses

- General Education Course

Accountancy

ACC 198 Accounting Professionalism **1 Credit hour**
Introduction to the accounting profession, career options, professional responsibilities, and codes of conduct. Professionalism, networking, interviewing, job search, and technical writing skills are developed.
Pre-req: ACC 215 with a minimum grade of C.
Grade Mode: Normal Grading Mode

ACC 215 Accounting Principles (CT) **3 Credit hours**
Introduction to principles and procedures of double-entry accounting records and reports. This course meets a Core 1/Critical Thinking requirement.
Attributes: Critical Thinking
Grade Mode: Normal Grading Mode

ACC 216 Principles of Accounting **3 Credit hours**
Using accounting information to assist in managerial control and decision making. Using accounting information to assist in managerial control and decision making.
Pre-req: ACC 215 with a minimum grade of D.
Grade Mode: Normal Grading Mode

ACC 280 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

ACC 310 Acct for Entrepreneurs **3 Credit hours**
Principles, concepts and problems of accounting relevant to decision making for entrepreneurs including: pro forma financial statements, cash flow, securing financing and cost structures. NOT OPEN TO STUDENTS IN THE LEWIS COLLEGE OF BUSINESS
Grade Mode: Normal Grading Mode

ACC 311 Intermediate Accounting I **3 Credit hours**
Study of U.S. and International accounting standards related primarily to assets and financial statement preparation. Accounting standards research and application of Excel are integrated throughout the course.
Pre-req: ACC 215 with a minimum grade of C and ACC 216 with a minimum grade of C.
Grade Mode: Normal Grading Mode

ACC 312 Intermediate Accounting II **3 Credit hours**
Study of U.S. and International accounting standards related primarily to liabilities and revenue recognition. Accounting standards research and application of Excel are integrated throughout the course.
Pre-req: ACC 198 with a minimum grade of D and ACC 311 with a minimum grade of C and MIS 200 with a minimum grade of D.
Grade Mode: Normal Grading Mode

ACC 318 Cost Accounting I **3 Credit hours**
A study of fundamental cost accounting concepts and objectives including project cost accumulation, costvolume-profit analysis, direct costing, budget techniques, standard costing, and differential cost analysis. A study of fundamental cost accounting concepts and objectives including project cost accumulation, cost- volume-profit analysis, direct costing, budget techniques, standard costing, and differential cost analysis.
Pre-req: ACC 215 with a minimum grade of C and ACC 216 with a minimum grade of C and (MGT 218 with a minimum grade of D or MGT 318 with a minimum grade of D or MTH 225 with a minimum grade of D or STA 225 with a minimum grade of D or IST 130 with a minimum grade of D or EDF 417 with a minimum grade of D or PSY 223 with a minimum grade of D or SOC 345 with a minimum grade of D).
Grade Mode: Normal Grading Mode

ACC 341 Acc Information Systems **3 Credit hours**
Introduction to accounting systems. Emphasis on concepts of analysis, design, and implementation of accounting systems with attention on internal and audit trail.
Pre-req: ACC 198 with a minimum grade of D and ACC 311 with a minimum grade of C.
Grade Mode: Normal Grading Mode

ACC 348 Federal Taxation **3 Credit hours**
Problems and procedures of income tax accounting. Problems and procedures of income tax accounting.
Pre-req: ACC 215 with a minimum grade of C.
Grade Mode: Normal Grading Mode

ACC 364 Forensic & Investigative Acct **3 Credit hours**
This course introduces students to forensic accounting focusing on criminal litigation and investigations of fraud.
Pre-req: ACC 311 with a minimum grade of C.
Grade Mode: Normal Grading Mode

ACC 412 Governmental Accounting **3 Credit hours**
A study of the use of accounting information in the financial management of governmental and non-profit entities. A study of the use of accounting information in the financial management of governmental and non-profit entities.
Pre-req: ACC 311 with a minimum grade of C.
Grade Mode: Normal Grading Mode

ACC 414 Adv Accounting Problems **3 Credit hours**
Selected problems in advanced accounting principles and procedures. Selected problems in advanced accounting principles and procedures.
Pre-req: ACC 312 with a minimum grade of C.
Grade Mode: Normal Grading Mode

ACC 418 Managerial Accounting **3 Credit hours**
The managerial approach to budgetary control. The managerial approach to budgetary control.
Pre-req: ACC 318 with a minimum grade of C.
Grade Mode: Normal Grading Mode

ACC 429 Auditing I **3 Credit hours**
A study of the theory and procedures of auditing and the legal and social responsibilities of the auditor. A study of the theory and procedures of auditing and the legal and social responsibilities of the auditor.
Pre-req: ACC 312 with a minimum grade of C and ACC 341 with a minimum grade of C and (MGT 218 with a minimum grade of D or MGT 318 with a minimum grade of D or MTH 225 with a minimum grade of D or STA 225 with a minimum grade of D or MTH 210 with a minimum grade of D or IST 130 with a minimum grade of D or SOC 345 with a minimum grade of D or PSY 223 with a minimum grade of D or EDF 417 with a minimum grade of D).
Grade Mode: Normal Grading Mode

ACC 435 Internal Auditing **3 Credit hours**
This course discusses the applicable current internal auditing theory and procedures, including a review of corporate governance and risk assessment. This course discusses the applicable current internal auditing theory and procedures, including a review of corporate governance and risk assessment.
Pre-req: ACC 341 with a minimum grade of C.
Grade Mode: Normal Grading Mode

ACC 440 Accounting Analytics **3 Credit hours**
This course studies the impact of data analytics on accounting and auditing and explores when and how various analytical procedures and tools can be used to address business questions.
Pre-req: ACC 311 with a minimum grade of C.
Grade Mode: Normal Grading Mode

ACC 448 Federal Income Tax II **3 Credit hours**
Advanced course in taxation with emphasis on corporations, partnerships, estates, trusts, gifts, valuation and liquidity problems, and tax administration and practice. Advanced course in taxation with emphasis on corporations, partnerships, estates, trusts, gifts, valuation and liquidity problems, and tax administration and practice.
Pre-req: ACC 348 with a minimum grade of C and ACC 311 with a minimum grade of C.
Grade Mode: Normal Grading Mode

ACC 480 Special Topics **1-4 Credit hours**
Study of an advanced topic not normally covered in other courses. Accounting majors only, with permission of Department Chair.
Grade Mode: Normal Grading Mode

ACC 485 Independent Study **1-4 Credit hours**
Grade Mode: Normal Grading Mode

ACC 490 Internship **3-12 Credit hours**
A supervised internship in which the student works for a business firm/agency to gain practical experience in the student's major. The program of work and study will be defined in advance and the student's performance will be evaluated. A supervised internship in which the student works for a business firm/agency to gain practical experience in the student's major. The program of work and study will be defined in advance and the student's performance will be evaluated.
Grade Mode: Credit/No Credit Grade Only

ACC 499 Professional and Ethics Sem **3 Credit hours**
Designed to increase the student's awareness of the accounting environment, emphasizing ethics. Communication skills are improved through impromptu speaking, written reports, group projects and formal presentations. Capstone Course.
Pre-req: ACC 318 with a minimum grade of C and ACC 429 (may be taken concurrently) with a minimum grade of D and ACC 440 (may be taken concurrently) with a minimum grade of D and ACC 448 (may be taken concurrently) with a minimum grade of D.
Concurrent PR: ACC 429 and ACC 440 and ACC 448
Attributes: Capstone Course
Grade Mode: Normal Grading Mode

Legal Environment

LE 207 Legal Environ of Business **3 Credit hours**
Law and the judicial system. the relationship of law, government, ethics and the consumer of business enterprise. The student of contracts, torts, government regulation of business, environmental and consumer protection.
Grade Mode: Normal Grading Mode

LE 308 Commercial Law **3 Credit hours**
A continuation of Accounting 207. Emphasizes in-depth case study of the law of commercial paper, business organizations security, and real and personal property.
Pre-req: LE 207 with a minimum grade of D.
Grade Mode: Normal Grading Mode

LE 351 Legal Aspts Hlth Care Org **3 Credit hours**
A survey of basic legal problems facing a hospital administrator. The study also includes constitutional and administrative law issues dealing with medicaid and medicare and regional planning.
Pre-req: ACC 207 with a minimum grade of D or FIN 207 with a minimum grade of D or FIN 307 with a minimum grade of D or LE 207 with a minimum grade of D.
Grade Mode: Normal Grading Mode

LE 366 Entrep Law & Ethics **3 Credit hours**
Students will examine the basic legal and ethical issues involving the creation, maintenance, and expansion of small businesses.
Grade Mode: Normal Grading Mode

LE 380 Tourism and Hospitality Law **3 Credit hours**
A review of the statutes and regulations as related to the hospitality, entertainment, and tourism industries including hotel/guest relationships, franchise agreements, and commercial law.
Grade Mode: Normal Grading Mode

LE 691 Gov Bus Relationships **3 Credit hours**
Preparing business executives for dealing with problems of the firm in its relationships with government. Applies case analysis to the board categories of antitrust, trade regulation, and agency regulation. Preparing business executives for dealing with problems of the firm in its relationships with government. Applies case analysis to the board categories of antitrust, trade regulation, and agency regulation.
Grade Mode: Normal Grading Mode

Accounting, B.B.A.

- General Education Course

- Milestone course: a key success marker for your major. See your advisor to discuss the importance of this course in your plan of study.

Major

The Core Curriculum is designed to foster critical thinking skills and introduce students to basic domains of thinking that transcend disciplines. The Core applies to all majors. Information on specific classes in the Core can be found at https://www.marshall.edu/gened/.

Code	Title	Credit Hours
Core Curriculum		
Core 1: Critical Thinking		
FYS 100	First Yr Sem Critical Thinking	3
PSY 201	Introductory Psychology (CT)	3
ACC 215	Accounting Principles (CT)	3
Core 2		
ENG 101	Beginning Composition	3
ENG 201	Advanced Composition	3
CMM 207	Bus & Prof Communication	3
STA 150	Foundations of Statistics	3
STA 150L	Foundations of Statistics Lab	1
Core II Natural/Physical Science		4
Core II Humanities		3
PSY 201	Introductory Psychology (CT)	3
Core II Fine Arts		3
Additional University Requirements		
ENG 204	Writing for the Workplace (Writing Intensive)	3
MGT 460	Strategic Management (Writing Intensive)	3
MC or I: Intl Business Elective		3
ACC 499	Professional and Ethics Sem (Capstone)	3
College-Specific		
ENG 204	Writing for the Workplace	3
ACC 215	Accounting Principles (CT)	3

ACC 216	Principles of Accounting	3
ECN 250	Principles Microeconomics	3
ECN 253	Principles Macroeconomics	3
FIN 323	Principles of Finance	3
LE 207	Legal Environ of Business	3
MIS 200	Bus Computer Applications	3
MIS 290	Prin Management Info Systems	3
MGT 218	Business Quantitative Methods	3
MGT 320	Principles of Management	3
MGT 460	Strategic Management	3
MKT 340	MKT Concepts and Applications	3
Communication Studies Elective:		
Select one of the following:		3
CMM 302	Professional Presentations	
CMM 308	Persuasive Communication	
CMM 315	Group Communication	
CMM 319	Superior-Subordinate Comm	
CMM 322	Intercultural Communication	
International Business Elective:		
Select one of the following:		3
ECN 408	Comparative Econ Systems	
ECN 420	International Trade	
ECN 421	Global Macroeconomic Analysis	
ECN 460	Economic of Dev Countries	
FIN 440	International Fin Management	
MGT 445	International Management	
MKT 371	International Marketing	
Major-Specific		
ACC 311	Intermediate Accounting I	3
ACC 312	Intermediate Accounting II	3
ACC 318	Cost Accounting I	3
ACC 341	Acc Information Systems	3
ACC 348	Federal Taxation	3
ACC 429	Auditing I	3
ACC 440	Accounting Analytics	3
ACC 448	Federal Income Tax II	3
ACC 499	Professional and Ethics Sem	3
ACC 198 is also required for ACC majors.		1
ACC Elective		3
Students can take any 300- or 400-level ACC course (except ACC 310, ACC 490), or LE 308, or an approved graduate course.		
Free Elective		3
Free Elective		3
Free Elective		3
Free Elective		3
Free Elective		3

Major Information

- The total number of free electives required depends on the number of hours completed in STA 150 Foundations of Statistics or STA 150B Foundations of Stats-Expanded and ENG 101 Beginning Composition or ENG 101P Beginning Composition Plus and the number of hours that can be double-counted toward multiple degree requirements.
- Student must earn a grade of "C" or better in all ACC prerequisite courses (including ACC 215 Accounting Principles (CT) and ACC 216 Principles of Accounting).
- The ACC Elective can be any 300/400 level ACC course (except ACC 310 Acct for Entrepreneurs or ACC 490 Internship), or LE 308 Commercial Law, or an approved graduate course (GPA requirement exists).
- ACC 499 Professional and Ethics Sem is the capstone course for all Accounting majors. It can only be taken during the senior year after all prerequisites are met.
- Multicultural or International additional university requirement met with International Business Elective.
- Please check with advisor about course offerings. Not all classes will be offered every semester.

- General Education Course

- Milestone course: a key success marker for your major. See your advisor to discuss the importance of this course in your plan of study.

Four Year Plan

The Department of Accountancy and Legal Environment offers a Bachelor of Business Administration (BBA) degree in Accounting. In the program, you will learn how to summarize financial statements and reports, interpret financial data, develop budgets, calculate taxes, audit financial records, and utilize systems to collect, retrieve, and analyze financial data. Through a rigorous curriculum and an abundance of opportunities to engage with professionals, you will be empowered to obtain internships, entry-level positions, sit for professional certification exams, and advance in a diverse set of accounting careers.

Course	Title	Credit Hours
First Year		
First Semester		
FYS 100	First Yr Sem Critical Thinking	3
ENG 101	Beginning Composition	3
STA 150	Foundations of Statistics	3
STA 150L	Foundations of Statistics Lab	1
PSY 201	Introductory Psychology (CT)	3
MIS 200	Bus Computer Applications	3
UNI 100	Freshman First Class	1
	Credit Hours	**17**
Second Semester		
Free Elective		3
ECN 250	Principles Microeconomics	3
CMM 207	Bus & Prof Communication	3
Core II Physical or Natural Science		4
Core II Fine Arts		3
	Credit Hours	**16**
Second Year		
First Semester		
ACC 215	Accounting Principles (CT)	3

ECN 253	Principles Macroeconomics	3
ENG 201	Advanced Composition	3
LE 207	Legal Environ of Business	3
CMM Studies Elective		3
	Credit Hours	**15**
Second Semester		
ACC 216	Principles of Accounting	3
MGT 218	Business Quantitative Methods	3
ENG 204	Writing for the Workplace	3
Free Elective		3
Core II Humanities		3
ACC 198	Accounting Professionalism	1
	Credit Hours	**16**
Third Year		
First Semester		
ACC 311	Intermediate Accounting I	3
ACC 318	Cost Accounting I	3
ACC 348	Federal Taxation	3
MGT 320	Principles of Management	3
MIS 290	Prin Management Info Systems	3
	Credit Hours	**15**
Second Semester		
ACC 312	Intermediate Accounting II	3
ACC 341	Acc Information Systems	3
FIN 323	Principles of Finance	3
MKT 340	MKT Concepts and Applications	3
Free Elective		3
	Credit Hours	**15**
Fourth Year		
First Semester		
ACC 440	Accounting Analytics	3
ACC 429	Auditing I	3
ACC 448	Federal Income Tax II	3
International Business Elective		3
	Credit Hours	**12**
Second Semester		
ACC 499	Professional and Ethics Sem (Senior Seminar)	3
MGT 460	Strategic Management	3
ACC Elective		3
Free Elective		3
Free Elective		2
	Credit Hours	**14**
	Total Credit Hours	**120**

Accounting, Minor

A minimum of 12 credit hours in Accounting, to include:

Code	Title	Credit Hours
ACC 311	Intermediate Accounting I	3
ACC 318	Cost Accounting I	3
ACC 348	Federal Taxation	3
Select one of the following upper-level courses: [1]		3
ACC 312	Intermediate Accounting II	
ACC 341	Acc Information Systems	
ACC 412	Governmental Accounting	
ACC 418	Managerial Accounting	
ACC 448	Federal Income Tax II	
400-level Special Topics		
Total Credit Hours		**12**

[1] See course descriptions for information about prerequisites.

Note: All courses must be completed with a grade of *C* or better.

Legal Environment, Minor

A minimum of 12 credit hours, including:

Code	Title	Credit Hours
LE 207	Legal Environ of Business	3
Other Legal Environment (LE) courses		9
Total Credit Hours		**12**

Department of Finance, Economics and International Business

Contacts: Dr. Shaorong Zhang, Department Chair, zhangs@marshall.edu
Website: http://www.marshall.edu/cob (http://www.marshall.edu/cob/)

Programs

- Economics, B.B.A. (p. 198)
- Economics, Minor (p. 200)
- Finance, B.B.A. (p. 200)
- Finance, Minor (p. 202)
- International Business, B.B.A. (p. 202)
- International Business, Minor (p. 204)
- Risk Management and Insurance, Minor (p. 204)

Courses

- General Education Course

Economics

ECN 200 Survey of Economics **3 Credit hours**
Major emphasis given to microeconomic topics such as supply and demand, market structure, and international trade. Macroeconomic concepts and aggregate supply-aggregate demand model are examined. (Not open to students in the College of Business or to students who have completed ECN 250) Major emphasis given to microeconomic topics such as supply and demand, market structure, and international trade. Macroeconomic concepts and aggregate supply-aggregate demand model are examined. (Not open to students in the College of Business or to students who have completed ECN 250)
Grade Mode: Normal Grading Mode

ECN 250 Principles Microeconomics **3 Credit hours**
Principles of scarcity, opportunity cost, and supply and demand are developed along with price and wage determination in the marketplace. International trade and policy problems are also examined. Principles of scarcity, opportunity cost, and supply and demand are developed along with price and wage determination in the marketplace. International trade and policy problems are also examined.
Grade Mode: Normal Grading Mode

ECN 253 Principles Macroeconomics **3 Credit hours**
Introduction to the workings of the national economy. Focuses on the forces driving economic growth, inflation, unemployment, and the country's international economic relations. Introduction to the workings of the national economy. Focuses on the forces driving economic growth, inflation, unemployment, and the country's international economic relations.
Pre-req: ECN 250 with a minimum grade of D or ECN 200 with a minimum grade of D.
Grade Mode: Normal Grading Mode

ECN 280 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

ECN 301 Quantitative Methods ECN/FIN **3 Credit hours**
Application of mathematical and statistical methods in Economics and Finance.
Pre-req: ECN 250 with a minimum grade of D and ECN 253 with a minimum grade of D.
Grade Mode: Normal Grading Mode

ECN 302 Health Economics **3 Credit hours**
A study of the health care market and health policy using the economic concepts of demand-supply, individual choice, uncertainty, asymmetric information and moral hazard.
Pre-req: ECN 250 with a minimum grade of D and ECN 253 with a minimum grade of D.
Grade Mode: Normal Grading Mode

ECN 310 Money and Banking **3 Credit hours**
Money, credit and credit institutions in the United States; monetary, fiscal, and banking functions of the Federal Reserve System.
Pre-req: ECN 250 with a minimum grade of D and ECN 253 with a minimum grade of D.
Attributes: American Institutions
Grade Mode: Normal Grading Mode

ECN 326 Int Macroeconomic Analys **3 Credit hours**
Advanced study of the national economy as a whole. The main topics focused on are: economic growth, unemployment, inflation, international monetary and financial relations, and macroeconomic policy activity. Advanced study of the national economy as a whole. The main topics focused on are: economic growth, unemployment, inflation, international monetary and financial relations, and macroeconomic policy activity.
Pre-req: ECN 250 with a minimum grade of D and ECN 253 with a minimum grade of D.
Attributes: American Institutions
Grade Mode: Normal Grading Mode

ECN 328 Int Microeconomic Analys **3 Credit hours**
Microeconomics theories of the production and pricing of goods and services, payments to the factors of production.
Pre-req: ECN 250 with a minimum grade of D and ECN 253 with a minimum grade of D.
Grade Mode: Normal Grading Mode

ECN 405 Environmental Economics **3 Credit hours**
An application of basic economic theory to a consideration of a wide range of environmental problems including pollution, natural resource exhaustion, population and economic growth.
Pre-req: ECN 250 with a minimum grade of D.
Grade Mode: Normal Grading Mode

ECN 408 Comparative Econ Systems **3 Credit hours**
Marxism, capitalism, communism, facism ad socialism considered as theories, movements and actual political economies.
Pre-req: ECN 250 with a minimum grade of D and ECN 253 with a minimum grade of D.
Attributes: International
Grade Mode: Normal Grading Mode

ECN 415 Regional Economics **3 Credit hours**
A study of location theory and regional development within a framework of economic theory. A study of location theory and regional development within a framework of economic theory.
Pre-req: ECN 250 with a minimum grade of D and ECN 253 with a minimum grade of D.
Attributes: American Institutions, Social Sciences
Grade Mode: Normal Grading Mode

ECN 420 International Trade **3 Credit hours**
An introduction to the basic microeconomic models explaining the reasons for and the effects of trade among nations, trade restrictions and regional trading arrangements. An introduction to the basic microeconomic models explaining the reasons for and the effects of trade among nations, trade restrictions and regional trading arrangements.
Pre-req: ECN 250 with a minimum grade of D and ECN 253 with a minimum grade of D.
Attributes: International
Grade Mode: Normal Grading Mode

ECN 421 Global Macroeconomic Analysis **3 Credit hours**
Current topics in international monetary relations, and how countries use macroeconomic policy to influence their performance in the global economy, and how global events influence country performance. Emphasis upon applications.
Pre-req: ECN 253 with a minimum grade of D.
Attributes: International
Grade Mode: Normal Grading Mode

ECN 423 Intro to Econometrics **3 Credit hours**
Combines economic theory with real data to obtain quantitative results for purposes of explanation and prediction. The development of useful economic models applicable to present day world problems.
Pre-req: (MGT 218 with a minimum grade of D or MGT 318 with a minimum grade of D or MTH 225 with a minimum grade of D or STA 225 with a minimum grade of D or IST 130 with a minimum grade of D or EDF 417 with a minimum grade of D or PSY 223 with a minimum grade of D or SOC 345 with a minimum grade of D) and ECN 253 with a minimum grade of D.
Grade Mode: Normal Grading Mode

ECN 456 Labor Economics **3 Credit hours**
Theoretical and empirical analysis of labor markets, wage determination, hours of work, unemployment and inflation, unions and collective bargaining and related subjects in their social and legal contexts.
Pre-req: ECN 250 with a minimum grade of D.
Attributes: American Institutions, Social Sciences
Grade Mode: Normal Grading Mode

ECN 460 Economic of Dev Countries **3 Credit hours**
Introduction to developing nations in the world economy. Focus on their economic characteristics, current economic problems, and policy issues. Interactions between the world economy and country performance.
Pre-req: ECN 250 with a minimum grade of D and ECN 253 with a minimum grade of D.
Attributes: International
Grade Mode: Normal Grading Mode

ECN 466 Economics Workshop **3 Credit hours**
Capstone experience. Emphasis on learning economics through applied research, writing, and oral presentations of student work. Capstone experience. Emphasis on learning economics through applied research, writing, and oral presentations of student work.
Pre-req: ECN 326 with a minimum grade of D and ECN 328 with a minimum grade of D and ECN 423 with a minimum grade of D.
Attributes: Capstone Course
Grade Mode: Normal Grading Mode

ECN 467 Economics Workshop II **2 Credit hours**
Capstone Experience. Emphasis on learning economics through writing exercises. Opportunity for collaborative research with CBER staff. Development of skills necessary for success in the job market. (PR: ECN 466) tion of Senior Thesis I) Capstone Experience. Emphasis on learning economics through writing exercises. Opportunity for collaborative research with CBER staff. Development of skills necessary for success in the job market. (PR: ECN 466) tion of Senior Thesis I)
Attributes: Capstone Course
Grade Mode: Normal Grading Mode

ECN 480 Special Topics **1-4 Credit hours**
Members of the department may teach, when necessary, any economics subject not listed among the current course offerings. Members of the department may teach, when necessary, any economics subject not listed among the current course offer- ings.
Grade Mode: Normal Grading Mode

ECN 485 Independent Study **1-4 Credit hours**
A research project conducted by a qualified student under guidance of a member of the department; involves gathering of data, interpretation, and presentation of findings in a written report. A research project conducted by a qualified student under guidance of a member of the department; involves gathering of data, interpretation, and presentation of findings in a written report.
Grade Mode: Normal Grading Mode

ECN 490 Internship **3-12 Credit hours**
A supervised internship in which the student works for a business firm/agency to gain practical experience in the student's major. The program of work and study will be defined in advanced and the students performance will be evaluated.
Grade Mode: Credit/No Credit Grade Only

ECN 501 Economic Analysis **3 Credit hours**
A survey of essential economics principles and techniques, including both microeconomic and macroeconomics topics. For students who have not had a two semester principles of economics sequence as undergraduates. A survey of essential economics principles and techniques, including both microeconomic and macroeconomics topics. For students who have not had a two semester principles of economics sequence as undergraduates.
Grade Mode: Normal Grading Mode

ECN 515 Regional Economics **3 Credit hours**
A study of location theory and regional development within a framework of economic theory. A study of location theory and regional development within a framework of economic theory.
Grade Mode: Normal Grading Mode

ECN 561 Economic Educ Workshop **3 Credit hours**
Intensive review of subject matter and teaching methods in economics for elementary and high school teachers. Intensive review of subject matter and teaching methods in economics for elementary and high school teachers.
Grade Mode: Normal Grading Mode

ECN 580 Special Topics **1-4 Credit hours**
Members of the department may teach, when necessary, any economics subject not listed amoung the current course offerings. Members of the department may teach, when necessary, any economics subject not listed amoung the current course offerings.
Grade Mode: Normal Grading Mode

ECN 630 Managerial Economics **3 Credit hours**
Utilization of microeconomic theory and optimization techniques for management decision making. Utilization of microeconomic theory and optimization tech- niques for management decision making.
Pre-req: (MGT 601 with a minimum grade of C or MGT 500 with a minimum grade of C) and ECN 501 with a minimum grade of C.
Grade Mode: Normal Grading Mode

ECN 650 Special Topics **1-3 Credit hours**
Members of the department may teach, when necessary, any economics subject not listed among current course offerings. Members of the department may teach, when necessary, any economics subject not listed among current course offerings.
Grade Mode: Normal Grading Mode

ECN 651 Special Topics **1-3 Credit hours**
Members of the department may teach, when necessary, any economics subject not listed among current course offerings. Members of the department may teach, when necessary, any economics subject not listed among current course offerings.
Grade Mode: Normal Grading Mode

ECN 660 Independent Study **1-4 Credit hours**
Independent study of a specific nature under the supervision of a qualified faculty member. Hours of credit are determined by the magnitude of the project. (PR: Permission of division head and of GSM academic advisor) Independent study of a specific nature under the supervision of a qualified faculty member. Hours of credit are determined by the magnitude of the project. (PR: Permission of division head and of GSM academic advisor)
Grade Mode: Normal Grading Mode

ECN 681 Thesis **3-6 Credit hours**
(PR: Permission of division head and full M.B.A. admissions) (PR: Permission of division head and full M.B.A. admissions)
Attributes: Thesis
Grade Mode: Normal Grading Mode

ECN 699 Bus Policy & Strategy **3 Credit hours**
Study of administrative decisions making under conditions of uncertainty. Policy constuction at top administrative level with emphasis on strategy with consideration of major functions of the business organization. Study of administrative decisions making under conditions of uncertainty. Policy constuction at top administrative level with emphasis on strategy with consideration of major functions of the business organization.
Grade Mode: Normal Grading Mode

Finance

FIN 175 Personal Finance (CT) **3 Credit hours**
To assist the consumer in management of personal financial affairs. Topics are consumerism, insurance, savings instruments, banking, and personal expenditures and budgeting, personal taxes, house buying, introduction to investments, and estate planning.
Attributes: Critical Thinking
Grade Mode: Normal Grading Mode

FIN 280 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

FIN 321 Risk Insurance Principles **3 Credit hours**
Fundamental concepts and principles of risk; techniques used to manage pure risks, and the role of insurance and the insurance mechanism in handling the exposures of individuals and businesses.
Grade Mode: Normal Grading Mode

FIN 323 Principles of Finance **3 Credit hours**
Business finance from viewpoint of business manager; use of financial statements, tools, and concepts for measuring and planning for profitability and liquidity. Business finance from viewpoint of business manager; use of financial statements, tools, and concepts for measuring and planning for profitability and liquidity.
Pre-req: ACC 215 with a minimum grade of D and (MGT 218 with a minimum grade of D or MTH 225 with a minimum grade of D or STA 225 with a minimum grade of D or MGT 318 with a minimum grade of D or IST 130 with a minimum grade of D or EDF 417 with a minimum grade of D or PSY 223 with a minimum grade of D or SOC 345 with a minimum grade of D).
Grade Mode: Normal Grading Mode

FIN 327 Life & Health Insurance **3 Credit hours**
Legal facets of life, health, and annuity contracts; risk selection; programming; mathematics of life insurance; taxation; regulation of companies.
Pre-req: FIN 321 with a minimum grade of D.
Grade Mode: Normal Grading Mode

FIN 329 Prop & Liability Insur **3 Credit hours**
Risk management and insurance tools applied to the needs of the corporate enterprise; direct/indirect property exposures; third-party claims; workers compensation, fidelity; crime; boiler/machinery; valuation and insurance surveys.
Pre-req: FIN 321 with a minimum grade of D.
Grade Mode: Normal Grading Mode

FIN 343 Intermediate Financial Manage **3 Credit hours**
Application of financial principles to corporate business problems. Computer analysis will be utilized where appropriate. Application of financial principles to corporate business problems. Computer analysis will be utilized where appropriate.
Pre-req: FIN 323 with a minimum grade of D.
Grade Mode: Normal Grading Mode

FIN 356 Finan Mgt Health Care Org **3 Credit hours**
Management of working capital, evaluation of financial data, capital budgeting, the capitalism process, and the study of third party reimbursement systems. Management of working capital, evaluation of financial data, capital budgeting, the capitalism process, and the study of third party reimbursement systems.
Pre-req: FIN 323 with a minimum grade of D.
Grade Mode: Normal Grading Mode

FIN 360 Commercial Banking **3 Credit hours**
Bank structure; asset and liability management; management of reserves; liquidity management; credit analysis and loan administration; costs and pricing of bank services; analysis of bank performance and capital adequacy; evolution of the "financial supermarket."
Pre-req: FIN 323 with a minimum grade of D.
Grade Mode: Normal Grading Mode

FIN 370 Principles of Investment **3 Credit hours**
A study of financial market operations, security analysis and portfolio selection. Models of capital market equilibrium, trade-off between risk and return, and how to evaluate portfolio performance are also discussed.
Pre-req: FIN 323 with a minimum grade of D.
Grade Mode: Normal Grading Mode

FIN 380 Entrepreneurial Finance **3 Credit hours**
Entrepreneurial finance examines the principles of small business finance which include projecting financial needs and surveying potential sources of financing. Other areas covered include financial forecasting, and sources of capital.
Grade Mode: Normal Grading Mode

FIN 405 Social Ins Employee Benefits **3 Credit hours**
Coverage and limitations of social insurance; social security; worker's compensation; unemployment insurance; medicare, medicaid, integration with private insurance and employee benefits; theory of group programs; pension plans.
Pre-req: FIN 321 with a minimum grade of D.
Grade Mode: Normal Grading Mode

FIN 410 Corporate Risk Management **3 Credit hours**
Identification, analysis, and handling of the risk exposures faced by businesses and risk managers; loss prevention and control; risk retention; self-insurance and corporate insurance programs.
Pre-req: FIN 321 with a minimum grade of D.
Grade Mode: Normal Grading Mode

FIN 425 Portfolio Analysis and Manage **3 Credit hours**
Analytical procedures for valuing various financial securities and techniques for the creation and maintenance of portfolios. Analytical procedures for valuing various financial securities and techniques for the creation and maintenance of portfolios.
Pre-req: FIN 370 with a minimum grade of D.
Grade Mode: Normal Grading Mode

FIN 431 Futures and Options **3 Credit hours**
To introduce options and futures, their market microstructure, their theoretical foundation pertaining to pricing and hedging with such contracts, and their uses.
Pre-req: FIN 370 with a minimum grade of D.
Grade Mode: Normal Grading Mode

FIN 432 Financial Advising: FINRA S-7 **3 Credit hours**
This course prepares students for the Series 7 exam that entitles the holder to sell all types of securities products with the exception of commondities and futures.
Grade Mode: Normal Grading Mode

FIN 440 International Fin Management **3 Credit hours**
International financing techniques and the role of finance in multinational organizations. International financing techniques and the role of finance in multinational organizations.
Pre-req: FIN 323 with a minimum grade of D.
Attributes: International
Grade Mode: Normal Grading Mode

FIN 470 Financial Policies/Strategies **3 Credit hours**
Financial planning, working capital management, capital budgeting, dividend policy and comprehensive problems. Capstone Experience.
Pre-req: FIN 343 with a minimum grade of D and FIN 440 with a minimum grade of D.
Attributes: Capstone Course
Grade Mode: Normal Grading Mode

FIN 475 Intl Business Strategies **3 Credit hours**
Strategies for gaining competitive advantage in the global business environment. Topics include international trade and investment, economic growth, and operations of multinational corporations. Capstone Experience for International Business major. Strategies for gaining competitive advantage in the global business environment. Topics include international trade and investment, economic growth, and operations of multinational corporations. Capstone Experience for International Business major.
Pre-req: ECN 421 with a minimum grade of D and FIN 343 with a minimum grade of D.
Attributes: Capstone Course, International
Grade Mode: Normal Grading Mode

FIN 480 Special Topics **1-4 Credit hours**
Study of an advanced topic not normally covered in other courses. Finance majors only, with permission of department chair. Study of an advanced topic not normally covered in other courses. Finance majors only, with permission of depart- ment chairman.
Grade Mode: Normal Grading Mode

FIN 485 Independent Study **1-4 Credit hours**
Grade Mode: Normal Grading Mode

FIN 490 Internship **3-12 Credit hours**
A supervised internship in which the student works for a business firm/agency to gain practical experience in the student's major. The program of work and study will be defined in advance and the students performance will be evaluated. A supervised internship in which the student works for a business firm/agency to gain practical experience in the student's major. The program of work and study will be defined in advance and the students performance will be evaluated.
Grade Mode: Credit/No Credit Grade Only

FIN 510 Prin Business Finance **3 Credit hours**
Business finance from the viewpoint of the financial manager. Use of financial statements, tools, and concepts for measuring and planning for profitability and liquidity. (PR: Permission of MBA director). Business finance from the viewpoint of the financial man- ager. Use of financial statements, tools, and concepts for measuring and planning for profitability and liquidity. (PR: Permission of MBA director).
Pre-req: ACC 510 with a minimum grade of C and ECN 501 with a minimum grade of C and MGT 500 with a minimum grade of C.
Grade Mode: Normal Grading Mode

FIN 532 Fin Advising FINRA S-7 **3 Credit hours**
This course prepares students for the Series 7 exam that entitles the holder to sell all types of securities products with the exception of commodities and futures.
Grade Mode: Normal Grading Mode

FIN 556 Income Tax Planning **3 Credit hours**
This course focuses on principles and current law of income taxation and its impact on financial planning for individuals, couples and families as investors, employees and business owners.
Pre-req: FIN 551 with a minimum grade of C.
Grade Mode: Normal Grading Mode

FIN 558 Estate Planning **3 Credit hours**
Estate Planning focuses on the efficient conservation and transfer of wealth, consistent with the client's goals such as trusts, wills, probate, advanced directives, charitable giving, wealth transfers and related taxes.
Pre-req: FIN 551 with a minimum grade of C.
Grade Mode: Normal Grading Mode

FIN 580 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

FIN 581 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

FIN 620 Financial Management **3 Credit hours**
An examination of business corporations practicing at the level of the individual firm with emphasis on quantitative analysis of the variables which affect liquidity and profitability. An examination of business corporations practicing at the level of the individual firm with emphasis on quantitative analysis of the variables which affect liquidity and profit- ability.
Pre-req: MGT 601 with a minimum grade of C.
Grade Mode: Normal Grading Mode

FIN 623 Investments **3 Credit hours**
A study of fundamental investment principles, modern portfolio theory, and portfolio formation process and the evaluation of portfolio performance.
Pre-req: FIN 501G with a minimum grade of C or FIN 501 with a minimum grade of C.
Grade Mode: Normal Grading Mode

FIN 625 Financial Prob Business **3 Credit hours**
Recognizing and solving financial problems through the use of case presentations and/or corporate annual and interim reports. Recognizing and solving financial problems through the use of case presentations and/or corporate annual and interim reports.
Pre-req: FIN 620 with a minimum grade of C.
Grade Mode: Normal Grading Mode

FIN 626 Sec Anlysis-Portfolio Mgt **3 Credit hours**
Analytical procedures used by institutional portfolio managers to measure both past performance of holdings and anticipated market performance of current offerings. Emphasis in this course may be expected to be more centralized in the area of fundamental analysis. Analytical procedures used by institutional portfolio mana- gers to measure both past performance of holdings and anti- cipated market performance of current offerings. Emphasis in this course may be expected to be more centralized in the area of fundamental analysis.
Pre-req: FIN 620 with a minimum grade of C.
Grade Mode: Normal Grading Mode

FIN 627 Fin Institution & Markets **3 Credit hours**
An in-depth study of the flow of funds in the aggregate financial systems, with emphasis on those in the United States. Because interest rates, and bank reserve requirements of Federal Reserve System are all dynamic in character, the content of this course may be expected to vary as financial events of the future dictate. An in-depth study of the flow of funds in the aggregate fin- ancial systems, with emphasis on those in the United States. Because interest rates, and bank reserve requirements of Federal Reserve System are all dynamic in character, the content of this course may be expected to vary as financial events of the future dictate.
Pre-req: FIN 620 with a minimum grade of C.
Grade Mode: Normal Grading Mode

FIN 630 Multinational FIN MGT **3 Credit hours**
This course analyzes the challenges of multinational corporations' financial management. It covers three areas: foreign exchange market transactions, exchange rate risk and hedging, and corporate financial decisions of an MNC.
Grade Mode: Normal Grading Mode

FIN 650 Special Topics **1-3 Credit hours**
(Permission of the division head, full M.B.A. admission, and permission of GSM academic advisor) (Permission of the division head, full M.B.A. admission, and permission of GSM academic advisor)
Pre-req: FIN 501G with a minimum grade of C or FIN 510 with a minimum grade of C.
Grade Mode: Normal Grading Mode

FIN 651 Special Topics **1-3 Credit hours**
Pre-req: FIN 620 with a minimum grade of C.
Grade Mode: Normal Grading Mode

FIN 660 Independent Study **1-4 Credit hours**
Independent study of a specific nature under the supervision of a qualified faculty member. Hours of credit are determined by the magnitude of the project. (PR: FIN 620 and permission of division head or permission of GSM academic advisor) Independent study of a specific nature under the supervision of a qualified faculty member. Hours of credit are determined by the magnitude of the project. (PR: FIN 620 and permission of division head or permission of GSM academic advisor)
Pre-req: FIN 620 with a minimum grade of C.
Grade Mode: Normal Grading Mode

FIN 681 Thesis **1-6 Credit hours**
(PR: Permission of the division head and full M.B.A. admission) (PR: Permission of the division head and full M.B.A. admission)
Attributes: Thesis
Grade Mode: Normal Grading Mode

FIN 699 Business Policy & Strategy **3 Credit hours**
Study of administrative decisions making under conditions of uncertainty. Policy construction at top administrative level with emphasis on strategy with consideration of major functions of the business organization. Study of administrative decisions making under conditions of uncertainty. Policy construction at top administrative level with emphasis on strategy with consideration of major funct- ions of the business organization.
Grade Mode: Normal Grading Mode

Economics, B.B.A.

- General Education Course

- Milestone course: a key success marker for your major. See your advisor to discuss the importance of this course in your plan of study.

Major

The Core Curriculum is designed to foster critical thinking skills and introduce students to basic domains of thinking that transcend disciplines. The Core applies to all majors. Information on specific classes in the Core can be found at https://www.marshall.edu/gened/.

Code	Title	Credit Hours
Core Curriculum		
Core 1: Critical Thinking		
FYS 100	First Yr Sem Critical Thinking	3
PSY 201	Introductory Psychology (CT)	3
ACC 215	Accounting Principles (CT)	3
Core 2		
ENG 101	Beginning Composition	3
ENG 201	Advanced Composition	3
CMM 207	Bus & Prof Communication	3
STA 150	Foundations of Statistics	3
STA 150L	Foundations of Statistics Lab	1
Core II Natural/Physical Science		4
Core II Humanities		3
PSY 201	Introductory Psychology (CT)	3
Core II Fine Arts		3
Additional University Requirements		

ENG 204	Writing for the Workplace (Writing Intensive)	3
MGT 460	Strategic Management (Writing Intensive)	3
MC or I: Intl Business Elective		3
ECN 466	Economics Workshop (Capstone)	3
College-Specific		
ENG 204	Writing for the Workplace	3
ACC 215	Accounting Principles (CT)	3
ACC 216	Principles of Accounting	3
ECN 250	Principles Microeconomics	3
ECN 253	Principles Macroeconomics	3
FIN 323	Principles of Finance	3
LE 207	Legal Environ of Business	3
MIS 200	Bus Computer Applications	3
MIS 290	Prin Management Info Systems	3
MGT 218	Business Quantitative Methods	3
MGT 320	Principles of Management	3
MGT 460	Strategic Management	3
MKT 340	MKT Concepts and Applications	3
Communication Studies Elective:		
Select one of the following:		3
CMM 302	Professional Presentations	
CMM 308	Persuasive Communication	
CMM 315	Group Communication	
CMM 319	Superior-Subordinate Comm	
CMM 322	Intercultural Communication	
International Business Elective:		
Select one of the following:		3
ECN 408	Comparative Econ Systems [1]	
ECN 420	International Trade [1]	
ECN 421	Global Macroeconomic Analysis [1]	
ECN 460	Economic of Dev Countries [1]	
FIN 440	International Fin Management [1]	
MGT 445	International Management	
MKT 371	International Marketing	
Major-Specific		
ECN 326	Int Macroeconomic Analys	3
ECN 328	Int Microeconomic Analys	3
ECN 423	Intro to Econometrics	3
ECN 466	Economics Workshop	3
ECN/FIN Elective		3
ECN/FIN Elective		3
ECN/FIN Elective		3
ECN/FIN Elective (400 Level)		3
Free Elective		3
Free Elective		3
Free Elective		3
Free Elective		3
Free Elective		3
Free Elective		3
Free Elective		3

[1] ECN 408 Comparative Econ Systems, ECN 420 International Trade, ECN 421 Global Macroeconomic Analysis, ECN 460 Economic of Dev Countries, or FIN 440 International Fin Management **cannot** count as both the International Business Elective and an ECN/FIN Elective.

Major Information

- The total number of free electives required depends on the number of hours completed in STA 150 Foundations of Statistics or STA 150B Foundations of Stats-Expanded and ENG 101 Beginning Composition or ENG 101P Beginning Composition Plus and the number of hours that can be double-counted toward multiple degree requirements.
- ECN/FIN Electives can be any 300 or 400 level ECN or FIN courses not already required (except ECN 490 Internship and FIN 490 Internship). One elective must be at the 400 level.
- ECN 466 Economics Workshop is the capstone course for all Economics majors. It can only be taken during the senior year after all prerequisites are met.
- Multicultural or International additional university requirement met with International Business Elective.
- Please check with advisor about course offerings. Not all classes will be offered every semester.

- General Education Course

- Milestone course: a key success marker for your major. See your advisor to discuss the importance of this course in your plan of study.

Four Year Plan

The Department of Finance, Economics and International Business offers a Bachelor of Business Administration (BBA) degree in Economics. Economics studies the choices that individuals, businesses, and government make when faced with unlimited wants and limited resources. In the program, you will learn how to better understand, analyze, and take action on these interrelationships. You will be taught how to communicate economic ideas and analysis through written and oral presentations and use quantitative techniques and problem solving skills that you learn in order to develop a research project involving economic analysis.

Course	Title	Credit Hours
First Year		
First Semester		
FYS 100	First Yr Sem Critical Thinking	3
ENG 101	Beginning Composition	3
STA 150	Foundations of Statistics	3
STA 150L	Foundations of Statistics Lab	1
PSY 201	Introductory Psychology (CT)	3
MIS 200	Bus Computer Applications	3
UNI 100	Freshman First Class	1
	Credit Hours	**17**
Second Semester		
Free Elective		3
ECN 250	Principles Microeconomics	3
CMM 207	Bus & Prof Communication	3

Core II Physical or Natural Science		4
Core II Fine Arts		3
	Credit Hours	**16**
Second Year		
First Semester		
ACC 215	Accounting Principles (CT)	3
ECN 253	Principles Macroeconomics	3
ENG 201	Advanced Composition	3
LE 207	Legal Environ of Business	3
CMM Studies Elective		3
	Credit Hours	**15**
Second Semester		
ACC 216	Principles of Accounting	3
MGT 218	Business Quantitative Methods	3
ENG 204	Writing for the Workplace	3
Free Elective		3
Core II Humanities		3
	Credit Hours	**15**
Third Year		
First Semester		
ECN 328	Int Microeconomic Analys	3
MGT 320	Principles of Management	3
MKT 340	MKT Concepts and Applications	3
MIS 290	Prin Management Info Systems	3
Free Elective		3
	Credit Hours	**15**
Second Semester		
ECN 326	Int Macroeconomic Analys	3
FIN 323	Principles of Finance	3
ECN/FIN Elective		3
International Business Elective		3
Free Elective		3
	Credit Hours	**15**
Fourth Year		
First Semester		
ECN 423	Intro to Econometrics	3
ECN/FIN Elective		3
ECN/FIN Elective		3
Free Elective		3
Free Elective		3
	Credit Hours	**15**
Second Semester		
ECN/FIN Elective (400 Level)		3
ECN 466	Economics Workshop	3
MGT 460	Strategic Management	3
Free Elective		3
	Credit Hours	**12**
	Total Credit Hours	**120**

Economics, Minor

A minimum of 15 credit hours in Economics, with no more than six of those hours earned at the 200 level or lower.

Finance, B.B.A.

- General Education Course

- Milestone course: a key success marker for your major. See your advisor to discuss the importance of this course in your plan of study.

Major

The Core Curriculum is designed to foster critical thinking skills and introduce students to basic domains of thinking that transcend disciplines. The Core applies to all majors. Information on specific classes in the Core can be found at https://www.marshall.edu/gened/.

Code	Title	Credit Hours
Core Curriculum		
Core 1: Critical Thinking		
FYS 100	First Yr Sem Critical Thinking	3
PSY 201	Introductory Psychology (CT)	3
ACC 215	Accounting Principles (CT)	3
Core 2		
ENG 101	Beginning Composition	3
ENG 201	Advanced Composition	3
CMM 207	Bus & Prof Communication	3
STA 150	Foundations of Statistics	3
STA 150L	Foundations of Statistics Lab	1
Core II Natural/Physical Science		4
Core II Humanities		3
PSY 201	Introductory Psychology (CT)	3
Core II Fine Arts		3
Additional University Requirements		
ENG 204	Writing for the Workplace (Writing Intensive)	3
MGT 460	Strategic Management (Writing Intensive)	3
FIN 440	International Fin Management (Multicultural or International)	3
FIN 470	Financial Policies/Strategies (Capstone)	3
College-Specific		
ENG 204	Writing for the Workplace	3
ACC 215	Accounting Principles (CT)	3
ACC 216	Principles of Accounting	3
ECN 250	Principles Microeconomics	3
ECN 253	Principles Macroeconomics	3
FIN 323	Principles of Finance	3
LE 207	Legal Environ of Business	3
MIS 200	Bus Computer Applications	3
MIS 290	Prin Management Info Systems	3
MGT 218	Business Quantitative Methods	3
MGT 320	Principles of Management	3
MGT 460	Strategic Management	3

MKT 340	MKT Concepts and Applications	3
Communication Studies Elective:		
Select one of the following:		3
CMM 302	Professional Presentations	
CMM 308	Persuasive Communication	
CMM 315	Group Communication	
CMM 319	Superior-Subordinate Comm	
CMM 322	Intercultural Communication	
Major-Specific		
FIN 343	Intermediate Financial Manage	3
FIN 370	Principles of Investment	3
FIN 425	Portfolio Analysis and Manage	3
FIN 440	International Fin Management	3
FIN 470	Financial Policies/Strategies	3
Finance Electives:		
FIN Elective (400 Level) [1]		3
Finance Electives can be any 300 or 400 level FIN courses not already required or: [2]		9
ECN 310	Money and Banking	
ECN 326	Int Macroeconomic Analys	
ECN 328	Int Microeconomic Analys	
ECN 423	Intro to Econometrics	
ACC 311	Intermediate Accounting I	
ACC 312	Intermediate Accounting II	
ACC 418	Managerial Accounting	
Free Elective		3
Free Elective		3
Free Elective		3
Free Elective		3
Free Elective		3
Free Elective		3
Free Elective		3

[1] One elective must be at the 400 level.
[2] Except FIN 440 International Fin Management and FIN 490 Internship

Major Information

- The total number of free electives required depends on the number of hours completed in STA 150 Foundations of Statistics or STA 150B Foundations of Stats-Expanded and ENG 101 Beginning Composition or ENG 101P Beginning Composition Plus and the number of hours that can be double-counted toward multiple degree requirements.
- FIN 470 Financial Policies/Strategies is the capstone course for all Finance majors. It can only be taken during the senior year after all prerequisites are met.
- FIN 440 International Fin Management must be taken to meet the International Business requirement.
- Multicultural or International additional university requirement met with International Business Elective.
- Please check with advisor about course offerings. Not all classes will be offered every semester.

- General Education Course

- Milestone course: a key success marker for your major. See your advisor to discuss the importance of this course in your plan of study.

Four Year Plan

The Department of Finance, Economics and International Business offers a Bachelor of Business Administration (BBA) degree in Finance. Finance is a field that is concerned with making investment and financing decisions under uncertainty for both businesses and individuals. There are four major areas in the finance field: corporate finance, investments and portfolio management, financial institutions, and international financial management. In the program, you will develop analytical and problem solving skills in all four areas of finance for a rewarding career in the many areas of finance and for the success of your own personal investments and wealth management.

Course	Title	Credit Hours
First Year		
First Semester		
FYS 100	First Yr Sem Critical Thinking	3
ENG 101	Beginning Composition	3
STA 150	Foundations of Statistics	3
STA 150L	Foundations of Statistics Lab	1
PSY 201	Introductory Psychology (CT)	3
MIS 200	Bus Computer Applications	3
UNI 100	Freshman First Class	1
	Credit Hours	**17**
Second Semester		
Free Elective		3
ECN 250	Principles Microeconomics	3
CMM 207	Bus & Prof Communication	3
Core II Physical or Natural Science		4
Core II Fine Arts		3
	Credit Hours	**16**
Second Year		
First Semester		
ACC 215	Accounting Principles (CT)	3
LE 207	Legal Environ of Business	3
ECN 253	Principles Macroeconomics	3
ENG 201	Advanced Composition	3
CMM Studies Elective		3
	Credit Hours	**15**
Second Semester		
ACC 216	Principles of Accounting	3
MGT 218	Business Quantitative Methods	3
ENG 204	Writing for the Workplace	3
Free Elective		3
Core II Humanities		3
	Credit Hours	**15**
Third Year		
First Semester		
FIN 323	Principles of Finance	3
MGT 320	Principles of Management	3
MKT 340	MKT Concepts and Applications	3

MIS 290	Prin Management Info Systems	3
Free Elective		3
	Credit Hours	**15**
Second Semester		
FIN 343	Intermediate Financial Manage	3
FIN 370	Principles of Investment	3
FIN Elective		3
FIN Elective		3
Free Elective		3
	Credit Hours	**15**
Fourth Year		
First Semester		
FIN 425	Portfolio Analysis and Manage	3
FIN 440	International Fin Management	3
FIN Elective		3
Free Elective		3
Free Elective		3
	Credit Hours	**15**
Second Semester		
FIN Elective (400 Level)		3
FIN 470	Financial Policies/Strategies	3
MGT 460	Strategic Management (WI)	3
Free Elective		3
	Credit Hours	**12**
	Total Credit Hours	**120**

Finance, Minor

A minimum of 12 credit hours in Finance, to include:

Code	Title	Credit Hours
FIN 323	Principles of Finance	3
Select two of the following:		6
FIN 321	Risk Insurance Principles	
FIN 343	Intermediate Financial Manage	
FIN 370	Principles of Investment	
Select any of the discipline's 400-level courses		3
Total Credit Hours		**12**

International Business, B.B.A.

- General Education Course

- Milestone course: a key success marker for your major. See your advisor to discuss the importance of this course in your plan of study.

Major

The Core Curriculum is designed to foster critical thinking skills and introduce students to basic domains of thinking that transcend disciplines. The Core applies to all majors. Information on specific classes in the Core can be found at https://www.marshall.edu/gened/.

Code	Title	Credit Hours
Core Curriculum		
Core 1: Critical Thinking		
FYS 100	First Yr Sem Critical Thinking	3
PSY 201	Introductory Psychology (CT)	3
ACC 215	Accounting Principles (CT)	3
Core 2		
ENG 101	Beginning Composition	3
ENG 201	Advanced Composition	3
CMM 207	Bus & Prof Communication	3
STA 150	Foundations of Statistics	3
STA 150L	Foundations of Statistics Lab	1
Core II Natural/Physical Science		4
Core II Humanities		3
PSY 201	Introductory Psychology (CT)	3
Core II Fine Arts		3
Additional University Requirements		
ENG 204	Writing for the Workplace (Writing Intensive)	3
MGT 460	Strategic Management (Writing Intensive)	3
ECN 460	Economic of Dev Countries (Multicultural or International)	3
FIN 475	Intl Business Strategies (Capstone)	3
College-Specific		
ENG 204	Writing for the Workplace	3
ACC 215	Accounting Principles (CT)	3
ACC 216	Principles of Accounting	3
ECN 250	Principles Microeconomics	3
ECN 253	Principles Macroeconomics	3
FIN 323	Principles of Finance	3
LE 207	Legal Environ of Business	3
MIS 200	Bus Computer Applications	3
MIS 290	Prin Management Info Systems	3
MGT 218	Business Quantitative Methods	3
MGT 320	Principles of Management	3
MGT 460	Strategic Management	3
MKT 340	MKT Concepts and Applications	3
Communication Studies Elective:		
Select one of the following:		3
CMM 302	Professional Presentations	
CMM 308	Persuasive Communication	
CMM 315	Group Communication	
CMM 319	Superior-Subordinate Comm	
CMM 322	Intercultural Communication	
Major-Specific		
ECN 420	International Trade	3
ECN 421	Global Macroeconomic Analysis	3
FIN 343	Intermediate Financial Manage	3
FIN 440	International Fin Management	3
MGT 445	International Management	3
MGT 478	Import Export Management	3

MKT 371	International Marketing	3
FIN 475	Intl Business Strategies	3
ECN 460	Economic of Dev Countries	3
Free Elective		3
Free Elective		3
Free Elective		3
Free Elective		3
Free Elective		3
Free Elective		3
Free Elective		3

Major Information

- The total number of free electives required depends on the number of hours completed in STA 150 Foundations of Statistics or STA 150B Foundations of Stats-Expanded and ENG 101 Beginning Composition or ENG 101P Beginning Composition Plus and the number of hours that can be double-counted toward multiple degree requirements.
- FIN 475 Intl Business Strategies is the capstone course for all IB majors. It can only be taken during the senior year after all prerequisites are met.
- ECN 460 Economic of Dev Countries must be taken to meet the International Business Elective.
- Please check with advisor about course offerings. Not all classes will be offered every semester.

- General Education Course

- Milestone course: a key success marker for your major. See your advisor to discuss the importance of this course in your plan of study.

Four Year Plan

The Department of Finance, Economics and International Business offers a Bachelor of Business Administration degree (BBA) in International Business. International Business focuses on cross-border commerce and the legal requirements and trade regulations in the country where you are doing business. You will learn to understand the competitive global landscape of business and understand the impact international trade has on domestic and foreign markets.

Course	Title	Credit Hours
First Year		
First Semester		
FYS 100	First Yr Sem Critical Thinking	3
ENG 101	Beginning Composition	3
STA 150	Foundations of Statistics	3
STA 150L	Foundations of Statistics Lab	1
PSY 201	Introductory Psychology (CT)	3
MIS 200	Bus Computer Applications	3
UNI 100	Freshman First Class	1
	Credit Hours	**17**
Second Semester		
Free Elective		3
ECN 250	Principles Microeconomics	3
CMM 207	Bus & Prof Communication	3
Core II Physical or Natural Science		4
Core II Fine Arts		3
	Credit Hours	**16**
Second Year		
First Semester		
ACC 215	Accounting Principles (CT)	3
ECN 253	Principles Macroeconomics	3
ENG 201	Advanced Composition	3
LE 207	Legal Environ of Business	3
CMM Studies Elective		3
	Credit Hours	**15**
Second Semester		
ACC 216	Principles of Accounting	3
MGT 218	Business Quantitative Methods	3
ENG 204	Writing for the Workplace	3
Free Elective		3
Core II Humanities		3
	Credit Hours	**15**
Third Year		
First Semester		
FIN 323	Principles of Finance	3
MGT 320	Principles of Management	3
MKT 340	MKT Concepts and Applications	3
MIS 290	Prin Management Info Systems	3
Free Elective		3
	Credit Hours	**15**
Second Semester		
ECN 420	International Trade	3
MKT 371	International Marketing	3
FIN 343	Intermediate Financial Manage	3
MGT 445	International Management	3
Free Elective		3
	Credit Hours	**15**
Fourth Year		
First Semester		
ECN 421	Global Macroeconomic Analysis	3
ECN 460	Economic of Dev Countries	3
FIN 440	International Fin Management	3
Free Elective		3
Free Elective		3
	Credit Hours	**15**
Second Semester		
FIN 475	Intl Business Strategies	3
MGT 460	Strategic Management	3
MGT 478	Import Export Management	3
Free Elective		3
	Credit Hours	**12**
	Total Credit Hours	**120**

International Business, Minor

A minor in International business requires any 12 hours of the following classes:

Code	Title	Credit Hours
FIN 440	International Fin Management	3
ECN 420	International Trade	3
ECN 421	Global Macroeconomic Analysis	3
MKT 371	International Marketing	3
MGT 445	International Management	3
MGT 478	Import Export Management	3

Risk Management and Insurance, Minor

A minimum of 12 credit hours to include:

Code	Title	Credit Hours
FIN 321	Risk Insurance Principles	3
FIN 329	Prop & Liability Insur	3
FIN 405	Social Ins Employee Benefits	3
Select three credit hours of the following:		3
SFT course approved by the Department of Finance, Economics and International Business		
300/400-level course approved by the Department of Finance, Economics and International Business		
Total Credit Hours		**12**

Department of Management and Health Care Administration

Contacts: Dr. Deepak Subedi, Department Chair, subedi@marshall.edu
Website: http://www.marshall.edu/cob (http://www.marshall.edu/cob/)

Programs

- Aviation Management, B.B.A. (p. 211)
- Health Care Management, B.B.A. (p. 213)
- Management, B.B.A. (p. 214)
- Management, Minor (p. 217)
- Sustainability Management and Technology, B.B.A. (p. 217)
- Sustainability Management and Technology, Minor (p. 219)

Courses

- General Education Course

Health Care Management

HCA 600 The Health Care System **3 Credit hours**
This course is designed to provide managers with in-depth knowledge of the current health care system, covering the structure and delivery of care, the providers and payers, and the various players in the system. The internal and external forces impacting the system are discussed. Problems in the health care system are explored and evaluated with respect to the issues of access, cost, and effectiveness. (PR: GSM admission of permission of GSM academic advisor) This course is designed to provide managers with in-depth knowledge of the current health care system, covering the structure and delivery of care, the providers and payers, and the various players in the system. The internal and external forces impacting the system are discussed. Problems in the health care system are explored and evaluated with respect to the issues of access, cost, and effectiveness. (PR: GSM admission of permission of GSM academic advisor)
Grade Mode: Normal Grading Mode

HCA 610 Health Care Financial Mgt **3 Credit hours**
Course provides an overview of health care financial management, with special emphasis upon the aspects of financial systems in hospitals that differ from typical financial systems. It includes analysis of capital formation cash flow management and determination of working capital requirements. (PR: HCA 600) Course provides an overview of health care financial management, with special emphasis upon the aspects of financial systems in hospitals that differ from typical financial systems. It includes analysis of capital formation cash flow management and determination of working capital requirements. (PR: HCA 600)
Pre-req: HCA 600 with a minimum grade of C.
Grade Mode: Normal Grading Mode

HCA 611 QUANT METHODS IN HEALTH CARE M **1 Credit hour**

HCA 615 Health Care Econ **3 Credit hours**
The health care industry is unique. Unlike in other markets, the consumer finds it difficult to evaluate quantity, quality, and pricing. Traditional market forces are modified by government, third-party payers, and professional interests. This course applies economic principles to this unique environment.
Pre-req: HCA 600 with a minimum grade of C.
Grade Mode: Normal Grading Mode

HCA 620 Ethical Dimensions/Hlth Care **3 Credit hours**
Emphasis in this course is on the way managers in health care settings incorporate ethical dimensions into their decision-making. It looks at the wide variety of ethical issues faced by these managers, focusing on those related specifically in the decisions they make about their organization, personnel, and services. Specifically covered are issues regarding all allocation of scarce resources, the type and availability of care for special populations, and conflicts of interest. (PR: HCA 600) Emphasis in this course is on the way managers in health care settings incorporate ethical dimensions into their decision-making. It looks at the wide variety of ethical issues faced by these managers, focusing on those related specifically in the decisions they make about their organization, personnel, and services. Specifically covered are issues regarding all allocation of scarce resources, the type and availability of care for special populations, and conflicts of interest. (PR: HCA 600)
Pre-req: HCA 600 with a minimum grade of C or HCA 600G with a minimum grade of C.
Grade Mode: Normal Grading Mode

HCA 622 Utilization of HSR **3 Credit hours**
Provides an introduction to methods of undertaking research and program evaluation within health services organizations and delivery systems.
Pre-req: HCA 600 with a minimum grade of C and MKT 511 with a minimum grade of C.
Grade Mode: Normal Grading Mode

HCA 630 Legal Issues/Health Care Mgt **3 Credit hours**
This course provides students with a legal framework to analyze health care organizations and their operations. The federal and state legal systems are reviewed and regulatory programs and their requirements discussed. Topics include: tax exemptions, antitrust laws, corporate liability, provider-patient legal issues (contracts and negligence), patient rights, facilities licensure and accreditation, and reimbursement issues. Court cases, as well as governmental agency rulings and findings, are analyzed for their applications to health care management. (PR: HCA 600) This course provides students with a legal framework to analyze health care organizations and their operations. The federal and state legal systems are reviewed and regulatory programs and their requirements discussed. Topics include: tax exemptions, antitrust laws, corporate liability, provider-patient legal issues (contracts and negligence), patient rights, facilities licensure and accreditation, and reimbursement issues. Court cases, as well as governmental agency rulings and findings, are analyzed for their applications to health care management. (PR: HCA 600)
Pre-req: HCA 600 with a minimum grade of C or HCA 600G with a minimum grade of C.
Grade Mode: Normal Grading Mode

HCA 640 The Health Care Professional **3 Credit hours**
This course presents an overview of various professional and managerial topics relevant to the health care professional. Each offering of the course focuses on a particular health profession. Emphasis is on defining the profession, understanding its historical development and evolutoin, examining professional roles, tasks, responsibilities, and accountabilities in current practice, studying the interaction with other professionals, delineating the parameters of the professional in ethical decision-making, and recognizing and responding to challenges faced in contemporary practice and in planning for the future. (PR: HCA 600) This course presents an overview of various professional and managerial topics relevant to the health care professional. Each offering of the course focuses on a particular health profession. Emphasis is on defining the profession, understanding its historical development and evolutoin, examining professional roles, tasks, responsibilities, and accountabilities in current practice, studying the interaction with other professionals, delineating the parameters of the professional in ethical decision-making, and recognizing and responding to challenges faced in contemporary practice and in planning for the future. (PR: HCA 600)
Grade Mode: Normal Grading Mode

HCA 641 Clinical Experiences at CAMC **3-9 Credit hours**
Grade Mode: Credit/No Credit Grade Only

HCA 650 Comparative Health Systems **3 Credit hours**
A survey of health care provision systems throughout the world. Survey of health care provision systems throughout the world.
Grade Mode: Normal Grading Mode

HCA 651 Health Care Operations **3 Credit hours**
Investigation of the use of operations managment techniques and methodologies that are useful in the health care industry. Investigation of the use of operations managment techniques and methodologies that are useful in the health care industry.
Grade Mode: Normal Grading Mode

HCA 652 Health Care Finance **3 Credit hours**
Examination of the various financial systems present within the American health care systems. Special emphasis placed upon the management of assets, cost control, and budgeting. Examination of the various financial systems present within the American health care systems. Special emphasis placed upon the management of assets, cost control, and budgeting.
Grade Mode: Normal Grading Mode

HCA 653 Integrated Health Care Del Sys **3 Credit hours**
Provides an in-depth knowledge of health care delivery systems with emphasis on the major managerial issues faced by integrated delivery systems. Provides an in-depth knowledge of health care delivery systems with emphasis on the major managerial issues faced by integrated delivery systems.
Grade Mode: Normal Grading Mode

HCA 654 Human Res Manage in Hlth Care **3 Credit hours**
Investigation of the human resource function found withiin contemporary health care provision systems. Discussion of future challenges facing the function in this turbulent environment. Investigation of the human resource function found withiin contemporary health care provision systems. Discussion of future challenges facing the function in this turbulent environment.
Grade Mode: Normal Grading Mode

HCA 655 Health Care Marketing **3 Credit hours**
An investigation of the role of marketing in today's health care organizations. Specific topics include market segmentation, consumer behavior, promotion, and environmental analysis. An investigation of the role of marketing in today's health care organizations. Specific topics include market segmentation, consumer behavior, promotion, and environ- mental analysis.
Grade Mode: Normal Grading Mode

HCA 656 Mgt of Medical Technology **3 Credit hours**
An investigation of the place technology, primarialy hard technology plays in the formulation of health care policy and strategies. Special emphais placed on the management of medical information systems. An investigation of the place technology, primarialy hard technology plays in the formulation of health care policy and strategies. Special emphais placed on the management of medical information systems.
Grade Mode: Normal Grading Mode

HCA 657 Health Care Law and Policy **3 Credit hours**
An examination of the legal, regulatory, and policy-making interactions between government, society, and health care organizations and providers. An examination of the legal, regulatory, and policy-making interactions between government, society, and health care organizations and providers.
Grade Mode: Normal Grading Mode

HCA 658 Long Term Care **3 Credit hours**
Examination of the range of health and social services that are needed to compensate for the functional disabilities of people. Review of available services and governmental policies and regulations. Examination of the range of health and social services that are needed to compensate for the functional disabilities of people. Review of available services and governmental policies and regulations.
Grade Mode: Normal Grading Mode

HCA 659 Rural Helath Care **3 Credit hours**
An investigation of how health care is provided to rural Americans. Special attention given to the health care systems that provide medical care to the peoples of Appalachia. An investigation of how health care is provided to rural Americans. Special attention given to the health care systems that provide medical care to the peoples of Appalachia.
Grade Mode: Normal Grading Mode

HCA 671 Health Care Practicum **1-6 Credit hours**
Project-oriented experience in health care operations and organizations. Intended for those students with insufficient experience in the field. Project-oriented experience in health care operations and organizations. Intended for those students with insufficient experience in the field.
Grade Mode: Normal Grading Mode

HCA 695 Fld Res/Health Care Mgt **3 Credit hours**
In this course, each student selects an in-depth organizational research project on a particular management problem in a health care organization. In this "hands-on" project, the student services as a consultant to the health care organization, conducting research, analyzing data, and making recommendations for the solution(s) to the management problem. Projects focus on such topics as strategic planning, productivity, quality assurance, risk management, and joint ventures. Field research projects are selected in conjunction with the program coordinator during the semester prior to course enrollment. (PR: Completion of all 600-level required HCA courses, plus permission of program director) In this course, each student selects an in-depth organizational research project on a particular management problem in a health care organization. In this "hands-on" project, the student services as a consultant to the health care organization, conducting research, analyzing data, and making recommendations for the solution(s) to the management problem. Projects focus on such topics as strategic planning, productivity, quality assurance, risk management, and joint ventures. Field research projects are selected in conjunction with the program coordinator during the semester prior to course enrollment. (PR: Completion of all 600-level required HCA courses, plus permission of program director)
Grade Mode: Normal Grading Mode

HCA 697 Topics Health Care Admin **3 Credit hours**
The course is designed to allow group study of selected topics of current interest in health care management. (PR: Consent of instructor) The course is designed to allow group study of selected topics of current interest in health care management. (PR: Consent of instructor)
Grade Mode: Normal Grading Mode

HCA 698 Indpndnt Study-Hlth Care Admn **1-3 Credit hours**
Pre-req: HCA 600 with a minimum grade of C or HCA 600G with a minimum grade of C.
Grade Mode: Normal Grading Mode

HCA 699 Seminar in Health Care Admin **3 Credit hours**
Grade Mode: Normal Grading Mode

HCA 750 Field Research/Health Care Mgt **3 Credit hours**
Pre-req: (HCA 610 with a minimum grade of C or HCA 610G with a minimum grade of C) and (HCA 620 with a minimum grade of C or HCA 620G with a minimum grade of C) and (HCA 630 with a minimum grade of C or HCA 630G with a minimum grade of C).
Grade Mode: Normal Grading Mode

HCA 797 Thesis **6 Credit hours**
Attributes: Thesis
Grade Mode: Normal Grading Mode

Management

MGT 100 Introduction to Business **3 Credit hours**
Career exploration and preparation. Emphasis on modern supervisory management techniques in various business fields. Career exploration and preparation. Emphasis on modern supervisory management techniques in various business fields.
Grade Mode: Normal Grading Mode

MGT 218 Business Quantitative Methods **3 Credit hours**
This course introduces statistical concepts and tools that can be leveraged for business data analytics, covering hypothesis testing, regression analysis, decision-making, time series analysis, and process control.
Pre-req: MTH 121B with a minimum grade of D or MTH 123 with a minimum grade of D or MTH 120 with a minimum grade of D or MTH 130 with a minimum grade of D or MTH 130H with a minimum grade of D or MTH 121 with a minimum grade of D or MTH 121H with a minimum grade of D or MTH 127 with a minimum grade of D or MTH 132 with a minimum grade of D or MTH 203 with a minimum grade of D or MTH 190 with a minimum grade of D or MTH 131 with a minimum grade of D or MTH 140 with a minimum grade of D or MTH 229 with a minimum grade of D or MTH 229H with a minimum grade of D or MTH 140H with a minimum grade of D or (STA 150 with a minimum grade of D and STA 150L with a minimum grade of D) or (STA 150B with a minimum grade of D and STA 150L with a minimum grade of D).
Attributes: Statistics
Grade Mode: Normal Grading Mode

MGT 280 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

MGT 318 Management Analytics **3 Credit hours**
The course will provide a framework for both the analytical tools and specific managerial problems, emphasizing model development and the use of tools to manage, analyze, and visualize data.
Pre-req: MTH 121B with a minimum grade of D or MTH 123 with a minimum grade of D or MTH 120 with a minimum grade of D or MTH 130 with a minimum grade of D or MTH 130H with a minimum grade of D or MTH 121 with a minimum grade of D or MTH 121H with a minimum grade of D or MTH 127 with a minimum grade of D or MTH 132 with a minimum grade of D or MTH 203 with a minimum grade of D or MTH 190 with a minimum grade of D or MTH 131 with a minimum grade of D or MTH 140 with a minimum grade of D or MTH 229 with a minimum grade of D or MTH 229H with a minimum grade of D or MTH 140H with a minimum grade of D or (STA 150 with a minimum grade of D and STA 150L with a minimum grade of D) or (STA 150B with a minimum grade of D and STA 150L with a minimum grade of D).
Attributes: Statistics
Grade Mode: Normal Grading Mode

MGT 320 Principles of Management **3 Credit hours**
A comprehensive survey of the fundamental principles of management applicable to all forms of organizations. The course provides the student with a basis for thinking about complex business situations in the framework of analysis of the management process. Some case analysis of management problems used. A comprehensive survey of the fundamental principles of management applicable to all forms of organizations. The course provides the student with a basis for thinking about complex business situations in the framework of analysis of the management process. Some case analysis of management problems used.
Grade Mode: Normal Grading Mode

MGT 325 Project Management **3 Credit hours**
It covers key components of project management- project integration, scope, and time management; cost analysis, quality control, human resource considerations; risk management; procurement and contract management; and planning and scheduling.
Pre-req: MGT 218 with a minimum grade of D or STA 225 with a minimum grade of D or MTH 225 with a minimum grade of D or MGT 318 with a minimum grade of D or IST 130 with a minimum grade of D or EDF 417 with a minimum grade of D or PSY 223 with a minimum grade of D or SOC 345 with a minimum grade of D.
Grade Mode: Normal Grading Mode

MGT 335 Hospitality & Tourism Mgt **3 Credit hours**
An introduction to the hospitality industry, emerging trends and various management functions related to it.
Grade Mode: Normal Grading Mode

MGT 348 Aviation Management Safety **3 Credit hours**
This course provides students with a comprehensive coverage of aviation safety and security. The course examines topics related to the latest procedures, flight technologies, challenges, and accident statistics.
Grade Mode: Normal Grading Mode

MGT 350 Health Care Management **3 Credit hours**
An introduction to the management of health care organizations. An introduction to the management of health care organizations.
Pre-req: MGT 320 with a minimum grade of D.
Grade Mode: Normal Grading Mode

MGT 354 Health Care Delivery Systems **3 Credit hours**
An examination of the various private and public sector health care delivery systems currently management. An examination of the various private and public sector health care delivery systems currently management.
Pre-req: MGT 350 with a minimum grade of D.
Grade Mode: Normal Grading Mode

MGT 355 Health Care Prods & Services **3 Credit hours**
Application of business principles as they apply to the management of health care products and services in today's health care environment.
Pre-req: MGT 350 with a minimum grade of D.
Grade Mode: Normal Grading Mode

MGT 370 Energy Management Principles **3 Credit hours**
A managerial perspective of regional, national and international energy issues. Course provides an objective assessment into the projections, limitations, costs, and tradeoffs associated with conventional and alternative sources of energy.
Pre-req: MGT 320 with a minimum grade of D.
Grade Mode: Normal Grading Mode

MGT 380 Principles of Renewable Energy **3 Credit hours**
An introduction to renewable energy management, markets, and sustainable business solutions. Nuclear, hydro, solar, wind, geothermal, biomass and biofuel sectors will be evaluated for their economic viability and business profitability.
Pre-req: MGT 320 with a minimum grade of D.
Grade Mode: Normal Grading Mode

MGT 419 Business & Society **3 Credit hours**
An examination of the manager's social and environmental responsibilities to his employees, customers, and the general public, and other external factors which management must be cognizant of in modern society. An examination of the manager's social and environmental responsibilities to his employees, customers, and the general public, and other external factors which management must be cognizant of in modern society.
Pre-req: MGT 320 with a minimum grade of D.
Attributes: Capstone Course
Grade Mode: Normal Grading Mode

MGT 420 Operations Management **3 Credit hours**
Management of operation systems including system design, implementation and control. Analysis of the system in the areas of product, process, material quality, and facilities management. Topics include breakeven analysis, inventory models, transportation models, network analysis. Management of operation systems including system design, implementation and control. Analysis of the system in the areas of product, process, material quality, and facilities management. Topics include breakeven analysis, inventory models, transportation models, network analysis.
Pre-req: (MGT 218 with a minimum grade of D or STA 225 with a minimum grade of D or MTH 225 with a minimum grade of D or MGT 318 with a minimum grade of D or IST 130 with a minimum grade of D or EDF 417 with a minimum grade of D or PSY 223 with a minimum grade of D or SOC 345 with a minimum grade of D).
Grade Mode: Normal Grading Mode

MGT 421 Supply Chain Sustainability **3 Credit hours**
Understanding the value, issues and trends regarding sustainability in modern, complex and global supply chains and business practices, by appreciating the concepts of sustainability, circular economy, and supply chain processes.
Pre-req: MGT 218 with a minimum grade of D or STA 225 with a minimum grade of D or MTH 225 with a minimum grade of D or MGT 318 with a minimum grade of D or IST 130 with a minimum grade of D or EDF 417 with a minimum grade of D or PSY 223 with a minimum grade of D or SOC 345 with a minimum grade of D.
Grade Mode: Normal Grading Mode

MGT 422 Organizational Behavior **3 Credit hours**
An interdisciplinary examination of the nature of individuals, groups and organizations and organizations and their interactions. An interdisciplinary examination of the nature of individuals, groups and organizations and organizations and their interactions.
Pre-req: MGT 320 with a minimum grade of D.
Grade Mode: Normal Grading Mode

MGT 423 Organizational Development **3 Credit hours**
An examination of the dynamics of change within organizations. The course will examine the cause of resistance to change and purposeful methodologies for implementing change including behavioral, technological, and structural in attempt to describe a holistic approach. An examination of the dynamics of change within organ- izations. The course will examine the cause of resistance to change and purposeful methodologies for implementing change including behavioral, technological, and structural in an attempt to describe a holistic approach.
Pre-req: MGT 320 with a minimum grade of D.
Attributes: Capstone Course
Grade Mode: Normal Grading Mode

MGT 424 Human Resource Management **3 Credit hours**
Analyze the role of Human Resource Managers within strategic decision making. Topics include: selection, training, assessment, compensation and employee relations. Current topics also covered. Analyze the role of Human Resource Managers within strategic decision making. Topics include: selection, training, assessment, compensation and employee relations. Current topics also covered.
Pre-req: MGT 320 with a minimum grade of D.
Grade Mode: Normal Grading Mode

MGT 425 Industrial Relations **3 Credit hours**
A study of labor-management relations in union and non-union settings. Topics include: conflict resolution techniques, negotiation strategy, partitipative management, and labor theory. Labor laws and history are reviewed. A study of labor-management relations in union and non-union settings. Topics include: conflict resolution techniques, negotiation strategy, partitipative management, and labor theory. Labor laws and history are reviewed.
Pre-req: MGT 320 with a minimum grade of D.
Grade Mode: Normal Grading Mode

MGT 428 Negotiations **3 Credit hours**
The theory and practice of negotiation in organizational settings including negotiation strategies and their impact on the outcomes achieved. Students will build negotiation skills through experintial exercises and cases. The theory and practice of negotiation in organizational settings including negotiation strategies and their impact on the outcomes achieved. Students will build negotiation skills through experintial exercises and cases.
Pre-req: MGT 320 with a minimum grade of D.
Grade Mode: Normal Grading Mode

MGT 429 Leadership **3 Credit hours**
Leadership styles, principles, models, and practical applications including: motivation and communication, teamwork, use of power, development of trust, effective group facilitation, negotiation and persuasion, effective change, and ethics. Leadership styles, principles, models, and practical applications including: motivation and communication, teamwork, use of power, development of trust, effective group facilitation, negotiation and persuasion, effective change, and ethics.
Pre-req: MGT 320 with a minimum grade of D.
Grade Mode: Normal Grading Mode

MGT 430 Diversity Issues in Business **3 Credit hours**
Students will gain insights into primary and secondary dimensions of diversity, and be able to describe pertinent ethical, legal, media and marketing issues. They will improve organizations' management of diversity
Pre-req: MGT 320 with a minimum grade of D.
Grade Mode: Normal Grading Mode

MGT 445 International Management **3 Credit hours**
Focuses on the economic, political, legal, technological, and cultural issues faced by international managers. Topics include developing cultural awareness, implementing global strategy, and competing with ethical integrity. Focuses on the economic, political, legal, technological, and cultural issues faced by international managers. Topics include developing cultural awareness, implementing global strategy, and competing with ethical integrity.
Pre-req: MGT 320 with a minimum grade of D.
Attributes: International
Grade Mode: Normal Grading Mode

MGT 446 Green Management **3 Credit hours**
Focuses on environmental sustainability and the practices involved in managing a green business, including: eco-advantage strategies, supply chains, preventing the failure of eco-initiatives and sustained competitive advantage. Focuses on environmental sustainability and the practices involved in managing a green business, including: eco-advantage strategies, supply chains, preventing the failure of eco-initiatives and sustained competitive advantage.
Pre-req: MGT 320 with a minimum grade of D.
Grade Mode: Normal Grading Mode

MGT 455 Hlth Care Policy Seminar **3 Credit hours**
An integrative discussion course on current problems and future policies and strategies as they are related to facilities planning and utilization, staffing and organization and providing quality health care to community.
Pre-req: MGT 350 with a minimum grade of D.
Attributes: Capstone Course
Grade Mode: Normal Grading Mode

MGT 458 Energy Management Strategy **3 Credit hours**
Comprehensive coverage of all facets of the management of energy sources, production, risks, and markets. Provides managerial tools necessary to increase production capabilities and maneuver within the transforming energy sectors.
Pre-req: MGT 320 with a minimum grade of D.
Attributes: Capstone Course
Grade Mode: Normal Grading Mode

MGT 459 Aviation Management Capstone **3 Credit hours**
This course culminates the student's entire learning experience in the Aviation Management major. It involves case discussions, readings, and simulations. Students will complete a comprehensive, semester-long project.
Pre-req: AVSC 231 with a minimum grade of D and AVSC 315 with a minimum grade of D and AVSC 410 with a minimum grade of D and MGT 348 with a minimum grade of D.
Attributes: Capstone Course
Grade Mode: Normal Grading Mode

MGT 460 Strategic Management **3 Credit hours**
The integrative capstone course concerning theory and practice of top managements plans to attain outcomes consistent wit the organization's mission and goals including strategy formulation, implementation and control. The integrative capstone course concerning theory and practice of top managements plans to attain outcomes consistent wit the organization's mission and goals including strategy formulation, implementation and control.
Pre-req: MGT 320 with a minimum grade of D and MKT 340 with a minimum grade of D and LE 207 with a minimum grade of D and (MGT 218 with a minimum grade of D or MGT 318 with a minimum grade of D or MTH 225 with a minimum grade of D or STA 225 with a minimum grade of D or IST 130 with a minimum grade of D or EDF 417 with a minimum grade of D or PSY 223 with a minimum grade of D or SOC 345 with a minimum grade of D) and FIN 323 with a minimum grade of D and ENG 204 with a minimum grade of D and ACC 215 with a minimum grade of D and ACC 216 with a minimum grade of D and (CMM 207 with a minimum grade of D or CMM 103 with a minimum grade of D or CMM 104H with a minimum grade of D) and (ECN 250 with a minimum grade of D or ECN 200 with a minimum grade of D) and ECN 253 with a minimum grade of D and MIS 200 with a minimum grade of D and MIS 290 with a minimum grade of D.
Attributes: Capstone Course
Grade Mode: Normal Grading Mode

MGT 461 New Venture Dynamics **3 Credit hours**
Managing small enterprises, as opposed to large corporations. In cooperation with the Small Business Administration. Students work as trainee management consultants with small businesses in the area.
Pre-req: MGT 320 with a minimum grade of D.
Grade Mode: Normal Grading Mode

MGT 471 Prac Health Care Mgt I **4 Credit hours**
Field experience in management of Health Care Organizations. Field experience in management of Health Care Organizations.
Grade Mode: Credit/No Credit Grade Only

MGT 478 Import Export Management **3 Credit hours**
Students will learn the general and specific information relevant to conducting export business from the United States to different parts of the world.
Grade Mode: Normal Grading Mode

MGT 480 Special Topics **1-4 Credit hours**
Study of an advanced topic not normally covered in other courses. Management majors only, with permission of department chairman. Study of an advanced topic not normally covered in other courses. Management majors only, with permission of depart- ment chairman.
Grade Mode: Normal Grading Mode

MGT 485 Independent Study **1-4 Credit hours**
Grade Mode: Normal Grading Mode

MGT 490 Internship **3-12 Credit hours**
A supervised internship in which the student works for a business firm/agency to gain practical experience in the student's major. The program of work and study will be defined in advance and the student performance will be evaluated. A supervised internship in which the student works for a business firm/agency to gain practical experience in the student's major. The program of work and study will be defined in advance and the student performance will be evaluated.
Grade Mode: Credit/No Credit Grade Only

MGT 500 Analytic Methods & Tech **3 Credit hours**
Provides competency in some of the basic quantitative skills necessary for analytical work in business administration. Required of all candidates who have had little or no undergraduate background in mathematics. Provides competency in some of the basic quantitative skills necessary for analytical work in business administration. Required of all candidates who have had little or no under- graduate background in mathematics.
Grade Mode: Normal Grading Mode

MGT 578 Import Export Management **3 Credit hours**
Students will learn the general and specific information relevant to conducting import/export business to/from the United States to different parts of the world.
Grade Mode: Normal Grading Mode

MGT 580 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

MGT 601 Quant Methods-Business **3 Credit hours**
The use of quantitative methods for managerial decision making. A review of basic calculus and statistics as required in business. Other topics indlude decision analysis, linear programming and queuing. (PR: Full MBA Admission or Permission of MBA Director) The use of quantitative methods for managerial decision making. A review of basic calculus and statistics as required in business. Other topics indlude decision analysis, linear programming and queuing. (PR: Full MBA Admission or Permission of MBA Director)
Pre-req: MGT 500 with a minimum grade of C.
Grade Mode: Normal Grading Mode

MGT 610 OPERATIONS MANAGEMENT **3 Credit hours**
Grade Mode: Normal Grading Mode

MGT 611 Military Management I **3-9 Credit hours**
MGT 611 concerns the theory and practice of a military officer's management plans to attain outcomes consistent with the organization's mission and goals including strategy formulation, implementation and control.
Grade Mode: Credit/No Credit Grade Only

MGT 612 Military Management II **3-9 Credit hours**
MGT 612 concerns the theory and practice of a military officer's strategic human resource management plans to attain outcomes consistent with the organization's mission and goals including strategy formulation, implementation and control.
Grade Mode: Credit/No Credit Grade Only

MGT 613 Military Management III **3-9 Credit hours**
MGT 613 concerns the theory and practice of a military officer's quantitative and analytical management plans to attain outcomes consistent with the organization's mission and goals including strategy formulation, implementation and control.
Grade Mode: Credit/No Credit Grade Only

MGT 615 Mgmt of Innovation & Tech **3 Credit hours**
Provides a comprehensive introduction to technology and innovation management. Considers issues relating to international markets, innovation, and rapidly changing technology. Also covers effective organizational and managerial approaches to technology.
Grade Mode: Normal Grading Mode

MGT 620 Human Resource Management **3 Credit hours**
The study of policies, methods, and techniques utilized in personnel management and human relations. Specific attention is given to problems of recruitment, selection. compensation, motivation, communications, training , service and benefit programs, performance evaluation, safety, discipline, business ethics, and community relations. (PR: MGT 320 or MKT 511; and GSM admission or permission of GSM academic advisor) The study of policies, methods, and techniques utilized in personnel management and human relations. Specific attention is given to problems of recruitment, selection. compensation, motivation, communications, training , service and benefit programs, performance evaluation, safety, discipline, business ethics, and community relations. (PR: MGT 320 or MKT 511; and GSM admission or permission of GSM academic advisor)
Pre-req: MKT 511 with a minimum grade of C.
Grade Mode: Normal Grading Mode

MGT 630 Mgt & Supervisory Skills Devel **3 Credit hours**
An analysis and application of personal and organizational skills associated with the effective management of both public and private sector organizations. Skills to be developed or refined include time management,decision making, delegation, stress management, oral and written communication, team-building and others. Applied exercises, case studies, simulation, role play, films, and other learning methods are emphasized. (PR: MGT 672) An analysis and application of personal and organizational skills associated with the effective management of both public and private sector organizations. Skills to be developed or refined include time management,decision making, delegation, stress management, oral and written communication, team-building and others. Applied exercises, case studies, simulation, role play, films, and other learning methods are emphasized. (PR: MGT 672)
Pre-req: MGT 672 with a minimum grade of C or MGT 503G with a minimum grade of C.
Grade Mode: Normal Grading Mode

MGT 650 Special Topics **1-4 Credit hours**
PR: Permission of the division head and full M.B.A. admission or permission of GSM academic advisor. PR: Permission of the division head and full M.B.A. admission or permission of GSM academic advisor.
Pre-req: MGT 503 with a minimum grade of C or MGT 503G with a minimum grade of C.
Grade Mode: Normal Grading Mode

MGT 651 Special Topics **1-3 Credit hours**
PR: Permission of the division head and full M.B.A. admission or permission of GSM academic advisor. PR: Permission of the division head and full M.B.A. admission or permission of GSM academic advisor.
Grade Mode: Normal Grading Mode

MGT 655 Management of Small Business **3 Credit hours**
Pre-req: MGT 501 with a minimum grade of C or MGT 501G with a minimum grade of C.
Grade Mode: Normal Grading Mode

MGT 660 Independent Study **1-4 Credit hours**
Independent study of a specific nature under the Independent study of a specific nature under the
Grade Mode: Normal Grading Mode

MGT 665 MANAGEMENT INFORMATION SYSTEMS **3 Credit hours**
Grade Mode: Normal Grading Mode

MGT 670 Management Consulting Skills **3 Credit hours**
Pre-req: MGT 672 with a minimum grade of C or MGT 503G with a minimum grade of C.
Grade Mode: Normal Grading Mode

MGT 671 Business Admin Internship **3 Credit hours**
Project-oriented experience in business operations and organizations intended for those students with insufficient experience in the field. (PR: Full Admission and permission of program director)
Grade Mode: Normal Grading Mode

MGT 672 Organizational Behavior **3 Credit hours**
Basic ideas and concepts for the effective management of an organization. Major topics include motivation, communication and decision-making processes, group dynamics, leadership study, conflict management, work and organizational design, and organization development. Emphasis on the organizational behavior and theory. Basic ideas and concepts for the effective management of an organization. Major topics include motivation, communication and decision-making processes, group dynamics, leadership study, conflict management, work and organizational design, and organization development. Emphasis on the organizational behavior and theory.
Grade Mode: Normal Grading Mode

MGT 673 Prob Personnel Management **3 Credit hours**
Principles and procedures of the personnel system in the firm; selected areas of recruitment and selection; training and development; performance appraisal and evaluation; general communications system; role of government in manpower administration. Principles and procedures of the personnel system in the firm; selected areas of recruitment and selection; training and development; performance appraisal and evaluation; gen- eral communications system; role of government in manpower administration.
Pre-req: MGT 672 with a minimum grade of C or MGT 503G with a minimum grade of C.
Grade Mode: Normal Grading Mode

MGT 674 Prod/Operation Management **3 Credit hours**
The study of operations management methods used in production, manufacturing, services and other business operations. Includes project management, capacity planning and transportation problems. (PR: MGT 601 and Full MBA Admission or Permission of MBA Director) The study of operations management methods used in production, manufacturing, services and other business operations. Includes project management, capacity planning and transportation problems. (PR: MGT 601 and Full MBA Admission or Permission of MBA Director)
Pre-req: MGT 601 with a minimum grade of C.
Grade Mode: Normal Grading Mode

MGT 675 Prob Labor-Mgt Relations **3 Credit hours**
Comprehensive coverage of the development of the field of industrial relations. The impact of organized labor and federal social legislation of management decision. Alternative directions for future developments are studied. Comprehensive coverage of the development of the field of industrial relations. The impact of organized labor and fed- eral social legislation of management decision. Alternative directions for future developments are studied.
Pre-req: MGT 672 with a minimum grade of C or MGT 503G with a minimum grade of C.
Grade Mode: Normal Grading Mode

MGT 676 Organization Theory Desgn **3 Credit hours**
Analysis of organizational systems and subsystems incorporating, traditional, behavioral, and situational approaches to organizational and work unit design. Emphasizes environmental interface and interdependencies as function of internal systems phenomena. Analysis of organizational systems and subsystems incorpora- ting, traditional, behavioral, and situational approaches to organizational and work unit design. Emphasizes environmen- tal interface and interdependencies as function of internal systems phenomena.
Pre-req: MGT 672 with a minimum grade of C or MGT 503G with a minimum grade of C.
Grade Mode: Normal Grading Mode

MGT 677 Supply Chain Management **3 Credit hours**
This course is a study of efforts to optimize actions of manufacturers, suppliers, distributors, retailers, and other selected modes in their endeavors to serve the ultimate customers.
Grade Mode: Normal Grading Mode

MGT 680 Entrepreneurship **3 Credit hours**
The management of small business emphasizes how they are started and financed, how they produce and market their products and services and how they manage their human resources.
Grade Mode: Normal Grading Mode

MGT 681 Thesis **1-6 Credit hours**
Attributes: Thesis
Grade Mode: Normal Grading Mode

MGT 692 Ethics/Global Aspects Bus **3 Credit hours**
An examination of the Manager's social, ethical, and environmental responsibilities, not only to their domestic constituents, but also in the increasingly competitive international arena. An examination of the Manager's social, ethical, and environmental responsibilities, not only to their domestic constituents, but also in the increasingly competitive international arena.
Pre-req: MGT 672 with a minimum grade of C.
Grade Mode: Normal Grading Mode

MGT 696 Admin Policy & Strategy **3 Credit hours**
Capstone graduate business course for Master of Science students (HRM & HCA). Emphasis on policy and strategy issues in a service and/or public setting instead of within a "for-profit" environment.
Grade Mode: Normal Grading Mode

MGT 698 Independent Study in Mgmt **1-3 Credit hours**
Grade Mode: Normal Grading Mode

MGT 699 Strategic Management **3 Credit hours**
The study and application of top management's plan to attain outcomes consistent with the organization's mission and goals, including; strategy formulation, implementation and control. (PR: Permission of GSM academic advisor)
Grade Mode: Normal Grading Mode

MGT 749 RESEARCH PAPER **3 Credit hours**
Grade Mode: Normal Grading Mode

MGT 797 THESIS **6 Credit hours**
Attributes: Thesis
Grade Mode: Normal Grading Mode

MGT 799 Business Policy **3 Credit hours**
Grade Mode: Normal Grading Mode

Aviation Management, B.B.A.

Students graduating with an aviation management degree may manage airports, hold higher-level positions in airport safety and security, be in charge of air carrier operations or make financing decisions.

The Aviation Management major is a 24-credit hour major in the Lewis College of Business. The curriculum incorporates management courses from the College of Business, aviation classes from the Division of Aviation, and two specific College of Business aviation management courses.

- General Education Course

- Milestone course: a key success marker for your major. See your advisor to discuss the importance of this course in your plan of study.

Major

The Core Curriculum is designed to foster critical thinking skills and introduce students to basic domains of thinking that transcend disciplines. The Core applies to all majors. Information on specific classes in the Core can be found at https://www.marshall.edu/gened/.

Code	Title	Credit Hours
Core Curriculum		
Core 1: Critical Thinking		
FYS 100	First Yr Sem Critical Thinking	3
PSY 201	Introductory Psychology (CT)	3
ACC 215	Accounting Principles (CT)	3
Core 2		
ENG 101	Beginning Composition	3
ENG 201	Advanced Composition	3
CMM 207	Bus & Prof Communication	3
STA 150	Foundations of Statistics	3
STA 150L	Foundations of Statistics Lab	1
Core II Physical or Natural Science		
Core II Humanities		
PSY 201	Introductory Psychology (CT)	3
Core II Fine Arts		
Additional University Requirements		
ENG 204	Writing for the Workplace (Writing Intensive)	3
MGT 460	Strategic Management (Writing Intensive)	3
international Business Elective (MC or I)		
MGT 459	Aviation Management Capstone	3
College-Specific		
ENG 204	Writing for the Workplace	3
ACC 215	Accounting Principles (CT)	3
ACC 216	Principles of Accounting	3
ECN 250	Principles Microeconomics	3
ECN 253	Principles Macroeconomics	3
FIN 323	Principles of Finance	3
LE 207	Legal Environ of Business	3

MIS 200	Bus Computer Applications	3
MIS 290	Prin Management Info Systems	3
MGT 218	Business Quantitative Methods	3
MGT 320	Principles of Management	3
MGT 460	Strategic Management	3
MKT 340	MKT Concepts and Applications	3
Communications Studies Elective		
Select one of the following:		3
CMM 302	Professional Presentations	
CMM 308	Persuasive Communication	
CMM 315	Group Communication	
CMM 319	Superior-Subordinate Comm	
CMM 322	Intercultural Communication	
International Business Elective		
Select one of the following:		3
ECN 408	Comparative Econ Systems	
ECN 420	International Trade	
ECN 421	Global Macroeconomic Analysis	
ECN 460	Economic of Dev Countries	
FIN 440	International Fin Management	
MGT 445	International Management	
MKT 371	International Marketing	
Major-Specific		
AVSC 231	Aviation Law and Regulations	3
AVSC 315	Airport Operations and Mgmt	3
AVSC 410	Air Transportation Operations	3
MGT 348	Aviation Management Safety	3
MGT 420	Operations Management	3
MGT 422	Organizational Behavior	3
MGT 424	Human Resource Management	3
MGT 459	Aviation Management Capstone	
Free Electives to reach 120 hours		**21**

Course	Title	Credit Hours
First Year		
First Semester		
FYS 100	First Yr Sem Critical Thinking	3
ENG 101	Beginning Composition	3
STA 150	Foundations of Statistics	3
STA 150L	Foundations of Statistics Lab	1
PSY 201	Introductory Psychology (CT)	3
MIS 200	Bus Computer Applications	3
UNI 100	Freshman First Class	1
	Credit Hours	**17**
Second Semester		
Free Elective		3
ECN 250	Principles Microeconomics	3
CMM 207	Bus & Prof Communication	3
Core II Physical or Natural Science		4
Core II Fine Arts		3
	Credit Hours	**16**
Second Year		
First Semester		
ACC 215	Accounting Principles (CT)	3
ECN 253	Principles Macroeconomics	3
ENG 201	Advanced Composition (grade of "C" or better)	3
LE 207	Legal Environ of Business	3
CMM Studies Elective		3
	Credit Hours	**15**
Second Semester		
ACC 216	Principles of Accounting	3
MGT 218	Business Quantitative Methods	3
ENG 204	Writing for the Workplace (WI)	3
Free Elective		3
Core II Humanities		3
	Credit Hours	**15**
Third Year		
First Semester		
MGT 320	Principles of Management	3
MKT 340	MKT Concepts and Applications	3
FIN 323	Principles of Finance	3
AVSC 231	Aviation Law and Regulations	3
Free Elective		3
	Credit Hours	**15**
Second Semester		
MIS 290	Prin Management Info Systems	3
MGT 348	Aviation Management Safety	3
MGT 420	Operations Management	3
Free Elective		3
Free Elective		3
	Credit Hours	**15**
Fourth Year		
First Semester		
MGT 422	Organizational Behavior	3
AVSC 315	Airport Operations and Mgmt	3
AVSC 410	Air Transportation Operations	3
Free Elective		3
Free Elective [1]		3
	Credit Hours	**15**
Second Semester		
MGT 424	Human Resource Management	3
MGT 459	Aviation Management Capstone [2]	3
MGT 460	Strategic Management	3
International Business Elective [3]		3
	Credit Hours	**12**
	Total Credit Hours	**120**

[1] Students must earn a minimum of 120 credit hours to graduate. If any courses are used to complete multiple degree requirements or student Is required to take STA 1508 or ENG 101P, the student may need a different number of free electives than what is listed above to reach 120 credit hours.

[2] MGT 459, Aviation Management Capstone, is the capstone course for all Aviation Management majors. It is normally taken in the senior year.

[3] The International Business Elective can be met by taking one of the following courses: ECN 408, 420, 421, 460, FIN 440, MGT 445, or MKT 371 .

Health Care Management, B.B.A.

- General Education Course

- Milestone course: a key success marker for your major. See your advisor to discuss the importance of this course in your plan of study.

Major

The Core Curriculum is designed to foster critical thinking skills and introduce students to basic domains of thinking that transcend disciplines. The Core applies to all majors. Information on specific classes in the Core can be found at https://www.marshall.edu/gened/.

Code	Title	Credit Hours
Core Curriculum		
Core 1: Critical Thinking		
FYS 100	First Yr Sem Critical Thinking	3
PSY 201	Introductory Psychology (CT)	3
ACC 215	Accounting Principles (CT)	3
Core 2		
ENG 101	Beginning Composition	3
ENG 201	Advanced Composition	3
CMM 207	Bus & Prof Communication	3
STA 150	Foundations of Statistics	3
STA 150L	Foundations of Statistics Lab	1
Core II Natural/Physical Science		4
Core II Humanities		3
PSY 201	Introductory Psychology (CT)	3
Core II Fine Arts		3
Additional University Requirements		
ENG 204	Writing for the Workplace (Writing Intensive)	3
MGT 460	Strategic Management (Writing Intensive)	3
MC or I: Intl Business Elective		3
MGT 455	Hlth Care Policy Seminar (Capstone)	3
College-Specific		
ENG 204	Writing for the Workplace	3
ACC 215	Accounting Principles (CT)	3
ACC 216	Principles of Accounting	3
ECN 250	Principles Microeconomics	3
ECN 253	Principles Macroeconomics	3
FIN 323	Principles of Finance	3
LE 207	Legal Environ of Business	3
MIS 200	Bus Computer Applications	3
MIS 290	Prin Management Info Systems	3
MGT 218	Business Quantitative Methods	3
MGT 320	Principles of Management	3
MGT 460	Strategic Management	3
MKT 340	MKT Concepts and Applications	3
Communication Studies Elective:		
Select one of the following:		3
CMM 302	Professional Presentations	
CMM 308	Persuasive Communication	
CMM 315	Group Communication	
CMM 319	Superior-Subordinate Comm	
CMM 322	Intercultural Communication	
International Business Elective:		
Select one of the following:		3
ECN 408	Comparative Econ Systems	
ECN 420	International Trade	
ECN 421	Global Macroeconomic Analysis	
ECN 460	Economic of Dev Countries	
FIN 440	International Fin Management	
MGT 445	International Management (cannot count as both the International Business Elective and a MGT elective)	
MKT 371	International Marketing	
Major-Specific		
MGT 350	Health Care Management	3
MGT 354	Health Care Delivery Systems	3
MGT 355	Health Care Prods & Services	3
MGT 424	Human Resource Management	3
MGT 471	Prac Health Care Mgt I	4
LE 351	Legal Aspts Hlth Care Org	3
MGT 455	Hlth Care Policy Seminar	3
MGT Elective		3
Free Elective		3
Free Elective		3
Free Elective		3
Free Elective		3
Free Elective		3
Free Elective		3
Free Elective		2

Major Information

- The total number of free electives required depends on the number of hours completed in STA 150 Foundations of Statistics or STA 150B Foundations of Stats-Expanded and ENG 101 Beginning Composition or ENG 101P Beginning Composition Plus and the number of hours that can be double-counted toward multiple degree requirements.
- MGT electives can be any 300 or 400 level MGT courses not already required (except MGT 490 Internship). MGT 445 may not count as both a MGT elective and the International Business elective.
- The Health Care Practicum is completed during the summer of the senior year.

- MGT 455 Hlth Care Policy Seminar is the capstone course for all Health Care Management majors. It can only be taken during the senior year after all prerequisites are met.
- Multicultural or International additional university requirement met with International Business Elective.
- Please check with advisor about course offerings. Not all classes will be offered every semester.

- General Education Course

- Milestone course: a key success marker for your major. See your advisor to discuss the importance of this course in your plan of study.

Four Year Plan

The Department of Management and Health Care Administration offers a Bachelor of Business Administration (BBA) degree in Health Care Management. Graduates with the degree are prepared to provide health care organizations with the necessary skills to manage the complexities of delivering health care in the dynamic health care environment. In the program, you will learn financial and organizational skills, how to prepare budgets, and how to make effective decisions. Health care managers have a wide range of career options through which to apply their knowledge and provide needed services to the community.

Course	Title	Credit Hours
First Year		
First Semester		
FYS 100	First Yr Sem Critical Thinking	3
ENG 101	Beginning Composition	3
STA 150	Foundations of Statistics	3
STA 150L	Foundations of Statistics Lab	1
PSY 201	Introductory Psychology (CT)	3
MIS 200	Bus Computer Applications	3
UNI 100	Freshman First Class	1
	Credit Hours	**17**
Second Semester		
Free Elective		3
ECN 250	Principles Microeconomics	3
CMM 207	Bus & Prof Communication	3
Core II Physical or Natural Science		4
Core II Fine Arts		3
	Credit Hours	**16**
Second Year		
First Semester		
ACC 215	Accounting Principles (CT)	3
ECN 253	Principles Macroeconomics	3
ENG 201	Advanced Composition	3
LE 207	Legal Environ of Business	3
CMM Studies Elective		3
	Credit Hours	**15**
Second Semester		
ACC 216	Principles of Accounting	3
MGT 218	Business Quantitative Methods	3
ENG 204	Writing for the Workplace	3
Free Elective		3
MGT 320	Principles of Management	3
	Credit Hours	**15**
Third Year		
First Semester		
FIN 323	Principles of Finance	3
MGT 350	Health Care Management	3
MKT 340	MKT Concepts and Applications	3
MIS 290	Prin Management Info Systems	3
Free Elective		3
	Credit Hours	**15**
Second Semester		
LE 351	Legal Aspts Hlth Care Org	3
MGT 354	Health Care Delivery Systems	3
MGT 355	Health Care Prods & Services	3
Free Elective		3
	Credit Hours	**12**
Fourth Year		
Summer		
MGT 471	Prac Health Care Mgt I	4
	Credit Hours	**4**
First Semester		
MGT 424	Human Resource Management	3
MGT 455	Hlth Care Policy Seminar	3
Core II Humanities		3
Free Elective		3
	Credit Hours	**12**
Second Semester		
MGT 460	Strategic Management	3
MGT Elective		3
International Business Elective		3
Free Elective		3
Free Elective		2
	Credit Hours	**14**
	Total Credit Hours	**120**

Management, B.B.A.

- General Education Course

- Milestone course: a key success marker for your major. See your advisor to discuss the importance of this course in your plan of study.

Major

The Core Curriculum is designed to foster critical thinking skills and introduce students to basic domains of thinking that transcend disciplines. The Core applies to all majors. Information on specific classes in the Core can be found at https://www.marshall.edu/gened/.

Code	Title	Credit Hours
Core Curriculum		
Core 1: Critical Thinking		

FYS 100	First Yr Sem Critical Thinking	3
PSY 201	Introductory Psychology (CT)	3
ACC 215	Accounting Principles (CT)	3
Core 2		
ENG 101	Beginning Composition	3
ENG 201	Advanced Composition	3
CMM 207	Bus & Prof Communication	3
STA 150	Foundations of Statistics	3
STA 150L	Foundations of Statistics Lab	1
Natural/Physical Science		4
Humanities		3
PSY 201	Introductory Psychology (CT)	3
Fine Arts		3
Additional University Requirements		
ENG 204	Writing for the Workplace (Writing Intensive)	3
MGT 460	Strategic Management (Writing Intensive)	3
MC or I: Intl Business Elective		3
MGT 419	Business & Society (Capstone)	3
College-Specific		
ENG 204	Writing for the Workplace	3
ACC 215	Accounting Principles (CT)	3
ACC 216	Principles of Accounting	3
ECN 250	Principles Microeconomics	3
ECN 253	Principles Macroeconomics	3
FIN 323	Principles of Finance	3
LE 207	Legal Environ of Business	3
MIS 200	Bus Computer Applications	3
MIS 290	Prin Management Info Systems	3
MGT 218	Business Quantitative Methods	3
MGT 320	Principles of Management	3
MGT 460	Strategic Management	3
MKT 340	MKT Concepts and Applications	3
Communication Studies Elective:		
Select one of the following:		3
CMM 302	Professional Presentations	
CMM 308	Persuasive Communication	
CMM 315	Group Communication	
CMM 319	Superior-Subordinate Comm	
CMM 322	Intercultural Communication	
International Business Elective:		
Select one of the following:		3
ECN 408	Comparative Econ Systems	
ECN 420	International Trade	
ECN 421	Global Macroeconomic Analysis	
ECN 460	Economic of Dev Countries	
FIN 440	International Fin Management	
MGT 445	International Management (cannot count as both the International Business Elective and a MGT Elective)	
MKT 371	International Marketing	
Major-Specific		
MGT 420	Operations Management	3
MGT 422	Organizational Behavior	3
MGT 424	Human Resource Management	3
MGT 419	Business & Society	3
Students may choose to take elective credit in the major or an emphasis in Human Resources and Organizational Behavior or Supply Chain Analytics.		
MGT Elective		3
MGT Elective		3
MGT Elective		3
MGT Elective		3
Free Elective		3
Free Elective		3
Free Elective		3
Free Elective		3
Free Elective		3
Free Elective		3
Free Elective		3

Major Information

- The total number of free electives required depends on the number of hours completed in STA 150 Foundations of Statistics or STA 150B Foundations of Stats-Expanded and ENG 101 Beginning Composition or ENG 101P Beginning Composition Plus and the number of hours that can be double-counted toward multiple degree requirements.
- MGT Electives can be any 300 or 400 level MGT courses not already required (except MGT 490 Internship) or MKT 350 Supply Chain Logistics.
- MGT 419 Business & Society is the capstone course for all Management majors. It is normally taken in the senior year.
- Multicultural or International additional university requirement met with International Business Elective.
- Please check with advisor about course offerings. Not all classes will be offered every semester.

Human Resources and Organizational Behavior (p. 216)

Supply Chain Analytics (p. 217)

- General Education Course

- Milestone course: a key success marker for your major. See your advisor to discuss the importance of this course in your plan of study.

Four Year Plan

The Department of Management and Health Care Administration offers a Bachelor of Business Administration (BBA) degree in Management. In order to be successful in today's business world, managers must learn how to manage financial, human, and time-based resources. At the individual level, topics include employee motivation and performance, work attitudes such as job satisfaction and commitment, and worker-based factors like personality and emotion. At the interpersonal level, topics of interest include group behavior and teamwork, leadership, negotiations, and human resource management strategies related to staffing, compensation, and employee development. At the firm level, topics include firm performance, organizational culture, strategic decision making,

entrepreneurship, and executive behavior. Management majors can chose to have an area of emphasis in Supply Chain Analytics or Human Resources and Organizational Behavior.

Course	Title	Credit Hours
First Year		
First Semester		
FYS 100	First Yr Sem Critical Thinking	3
ENG 101	Beginning Composition	3
STA 150	Foundations of Statistics	3
STA 150L	Foundations of Statistics Lab	1
PSY 201	Introductory Psychology (CT)	3
MIS 200	Bus Computer Applications	3
UNI 100	Freshman First Class	1
	Credit Hours	**17**
Second Semester		
Free Elective		3
ECN 250	Principles Microeconomics	3
CMM 207	Bus & Prof Communication	3
Core II Physical or Natural Science		4
Core II Fine Arts		3
	Credit Hours	**16**
Second Year		
First Semester		
ACC 215	Accounting Principles (CT)	3
ECN 253	Principles Macroeconomics	3
ENG 201	Advanced Composition	3
LE 207	Legal Environ of Business	3
CMM Studies Elective		3
	Credit Hours	**15**
Second Semester		
ACC 216	Principles of Accounting	3
MGT 218	Business Quantitative Methods	3
ENG 204	Writing for the Workplace	3
Free Elective		3
Core II Humanities		3
	Credit Hours	**15**
Third Year		
First Semester		
FIN 323	Principles of Finance	3
MGT 320	Principles of Management	3
MKT 340	MKT Concepts and Applications	3
MIS 290	Prin Management Info Systems	3
Free Elective		3
	Credit Hours	**15**
Second Semester		
MGT 422	Organizational Behavior	3
MGT 424	Human Resource Management	3
MGT Elective		3
MGT Elective		3
Free Elective		3
	Credit Hours	**15**
Fourth Year		
First Semester		
MGT 420	Operations Management	3
MGT Elective		3
MGT Elective		3
Free Elective		3
Free Elective		3
	Credit Hours	**15**
Second Semester		
MGT 419	Business & Society	3
MGT 460	Strategic Management	3
International Business Elective		3
Free Elective		3
	Credit Hours	**12**
	Total Credit Hours	**120**

Human Resources and Organizational Behavior, Emphasis

In place of the electives in the major for the B.B.A. in Management, students may choose an emphasis in Human Resources and Organizational Behavior, as follows:

Code	Title	Credit Hours
MGT 425	Industrial Relations	3
MGT 428	Negotiations	3
MGT 429	Leadership	3
MGT 430	Diversity Issues in Business	3
Total Credit Hours		**12**

Course	Title	Credit Hours
First Year		
First Semester		
FYS 100	First Yr Sem Critical Thinking	3
ENG 101	Beginning Composition	3
STA 150	Foundations of Statistics	3
STA 150L	Foundations of Statistics Lab	1
PSY 201	Introductory Psychology (CT)	3
MIS 200	Bus Computer Applications	3
UNI 100	Freshman First Class	1
	Credit Hours	**17**
Second Semester		
Critical Thinking Course		3
ECN 250	Principles Microeconomics	3
CMM 207	Bus & Prof Communication	3
Core II Physical or Natural Science		4

Core II Fine Arts		3
	Credit Hours	**16**
Second Year		
First Semester		
ACC 215	Accounting Principles (CT)	3
ECN 253	Principles Macroeconomics	3
ENG 201	Advanced Composition	3
LE 207	Legal Environ of Business	3
CMM Studies Elective		3
	Credit Hours	**15**
Second Semester		
ACC 216	Principles of Accounting	3
MGT 218	Business Quantitative Methods	3
ENG 204	Writing for the Workplace	3
Critical Thinking Course		3
Core II Humanities		3
	Credit Hours	**15**
Third Year		
First Semester		
MGT 320	Principles of Management	3
MKT 340	MKT Concepts and Applications	3
FIN 323	Principles of Finance	3
MIS 290	Prin Management Info Systems	3
Free Elective		3
	Credit Hours	**15**
Second Semester		
MGT 422	Organizational Behavior	3
MGT 424	Human Resource Management	3
MGT 429	Leadership	3
Free Elective		3
Free Elective		3
	Credit Hours	**15**
Fourth Year		
First Semester		
MGT 420	Operations Management	3
MGT 428	Negotiations	3
MGT 425	Industrial Relations	3
International Business Elective [2]		3
Free Elective		3
	Credit Hours	**15**
Second Semester		
MGT 419	Business & Society [1]	3
MGT 460	Strategic Management	3
MGT 430	Diversity Issues in Business	3
Free Elective		3
	Credit Hours	**12**
	Total Credit Hours	**120**

* Students must earn a minimum of 120 credit hours to graduate. If any courses are used to complete multiple degree requirements or student is required to take STA 1508 or ENG 101P, the student may need a different number of free electives than what is listed above to reach 120 credit hours.

1 This is the capstone course for all Management majors. It can only be taken during the senior year after all prerequisites are met.

2 The International Business Elective can be met by taking one of the following courses: ECN 408, 420, 421, 460; MGT 445; or MKT 371.

Supply Chain Analytics, Emphasis

In place of some or all of the electives in the major for the B.B.A. in Management, students may choose an emphasis in Supply Chain Analytics, as follows:

Code	Title	Credit Hours
MGT 318	Management Analytics	3
MGT 325	Project Management	3
MGT 421	Supply Chain Sustainability	3
MKT 350	Supply Chain Logistics	3
Total Credit Hours		**12**

Management, Minor

A minimum of 12 credit hours, including:

Code	Title	Credit Hours
MGT 320	Principles of Management	3
MGT 422	Organizational Behavior	3
400 level MGT courses		6
Total Credit Hours		**12**

Sustainability Management and Technology, B.B.A.

- General Education Course

- Milestone course: a key success marker for your major. See your advisor to discuss the importance of this course in your plan of study.

Major

The Core Curriculum is designed to foster critical thinking skills and introduce students to basic domains of thinking that transcend disciplines. The Core applies to all majors. Information on specific classes in the Core can be found at https://www.marshall.edu/gened/.

Code	Title	Credit Hours
Core Curriculum		
Core 1: Critical Thinking		
FYS 100	First Yr Sem Critical Thinking	3
PSY 201	Introductory Psychology (CT)	3
ACC 215	Accounting Principles (CT)	3
Core 2		

ENG 101	Beginning Composition	3
ENG 201	Advanced Composition	3
CMM 207	Bus & Prof Communication	3
STA 150	Foundations of Statistics	3
STA 150L	Foundations of Statistics Lab	1
Core II Natural/Physical Science		4
Core II Humanities		3
PSY 201	Introductory Psychology (CT)	3
Core II Fine Arts		3
Additional University Requirements		
ENG 204	Writing for the Workplace (Writing Intensive)	3
MGT 460	Strategic Management (Writing Intensive)	3
MC or I: Intl Business Elective		3
MGT 458	Energy Management Strategy (Capstone)	3
College-Specific		
ENG 204	Writing for the Workplace	3
ACC 215	Accounting Principles (CT)	3
ACC 216	Principles of Accounting	3
ECN 250	Principles Microeconomics	3
ECN 253	Principles Macroeconomics	3
FIN 323	Principles of Finance	3
LE 207	Legal Environ of Business	3
MIS 200	Bus Computer Applications	3
MIS 290	Prin Management Info Systems	3
MGT 218	Business Quantitative Methods	3
MGT 320	Principles of Management	3
MGT 460	Strategic Management	3
MKT 340	MKT Concepts and Applications	3
Communication Studies Elective:		
Select one of the following:		3
CMM 302	Professional Presentations	
CMM 308	Persuasive Communication	
CMM 315	Group Communication	
CMM 319	Superior-Subordinate Comm	
CMM 322	Intercultural Communication	
International Business Elective:		
Select one of the following:		3
ECN 408	Comparative Econ Systems	
ECN 420	International Trade	
ECN 421	Global Macroeconomic Analysis	
ECN 460	Economic of Dev Countries	
FIN 440	International Fin Management	
MGT 445	International Management	
MKT 371	International Marketing	
Major-Specific		
MGT 325	Project Management	3
MGT 370	Energy Management Principles	3
MGT 380	Principles of Renewable Energy	3
MGT 420	Operations Management	3
MGT 428	Negotiations	3
MGT 446	Green Management	3
MKT 350	Supply Chain Logistics	3
MGT 458	Energy Management Strategy	3
Free Elective		3
Free Elective		3
Free Elective		3
Free Elective		3
Free Elective		3
Free Elective		3
Free Elective		3

Major Information

- The total number of free electives required depends on the number of hours completed in STA 150 Foundations of Statistics or STA 150B Foundations of Stats-Expanded and ENG 101 Beginning Composition or ENG 101P Beginning Composition Plus and the number of hours that can be double-counted toward multiple degree requirements.
- Multicultural or International additional university requirement met with International Business Elective.
- Please check with advisor about course offerings. Not all classes will be offered every semester.

- General Education Course

- Milestone course: a key success marker for your major. See your advisor to discuss the importance of this course in your plan of study.

Four Year Plan

The Department of Management and Health Care Administration offers a Bachelor of Business Administration (BBA) degree in Sustainability Management and Technology. This program teaches sustainable and clean energy solutions for a world that is facing diminishing resources and increased energy costs. You will learn about the history of energy production and the regulations surrounding energy policy, oil and natural gas conservation, sustainability, and green management. Centered on the core business elements of the energy industry, you will also learn about management, macroeconomics, accounting, marketing, and operations management.

Course	Title	Credit Hours
First Year		
First Semester		
FYS 100	First Yr Sem Critical Thinking	3
ENG 101	Beginning Composition	3
STA 150	Foundations of Statistics	3
STA 150L	Foundations of Statistics Lab	1
PSY 201	Introductory Psychology (CT)	3
MIS 200	Bus Computer Applications	3
UNI 100	Freshman First Class	1
	Credit Hours	**17**
Second Semester		
Free Elective		3
ECN 250	Principles Microeconomics	3
CMM 207	Bus & Prof Communication	3

Core II Physical or Natural Science		4
Core II Fine Arts		3
	Credit Hours	**16**
Second Year		
First Semester		
ACC 215	Accounting Principles (CT)	3
ECN 253	Principles Macroeconomics	3
ENG 201	Advanced Composition	3
LE 207	Legal Environ of Business	3
CMM Studies Elective		3
	Credit Hours	**15**
Second Semester		
ACC 216	Principles of Accounting	3
MGT 218	Business Quantitative Methods	3
ENG 204	Writing for the Workplace	3
MGT 320	Principles of Management	3
Core II Humanities		3
	Credit Hours	**15**
Third Year		
First Semester		
FIN 323	Principles of Finance	3
MGT 370	Energy Management Principles	3
MKT 340	MKT Concepts and Applications	3
MIS 290	Prin Management Info Systems	3
Free Elective		3
	Credit Hours	**15**
Second Semester		
MKT 350	Supply Chain Logistics	3
MGT 446	Green Management	3
MGT 325	Project Management	3
Free Elective		3
Free Elective		3
	Credit Hours	**15**
Fourth Year		
First Semester		
MGT 380	Principles of Renewable Energy	3
MGT 420	Operations Management	3
MGT 428	Negotiations	3
International Business Elective		3
Free Elective		3
	Credit Hours	**15**
Second Semester		
MGT 458	Energy Management Strategy	3
MGT 460	Strategic Management	3
Free Elective		3
Free Elective		3
	Credit Hours	**12**
	Total Credit Hours	**120**

Sustainability Management and Technology, Minor

To earn a minor in Sustainability Management and Technology, the following courses are required:

Code	Title	Credit Hours
MGT 320	Principles of Management	3
MGT 370	Energy Management Principles	3
Six hours from the following		6
MGT 380	Principles of Renewable Energy	
MGT 421	Supply Chain Sustainability	
MGT 446	Green Management	
Total Credit Hours		**12**

Department of Marketing, Management Information Systems (MIS) and Entrepreneurship

Contacts: Dr. Liz Alexander, Department Chair, alexanec@marshall.edu
Website: http://www.marshall.edu/cob (http://www.marshall.edu/cob/)

Programs

- Entrepreneurship, B.B.A. (p. 227)
- Entrepreneurship, Minor (p. 229)
- Hospitality and Tourism Marketing, Minor (p. 229)
- Management Information Systems, B.B.A. (p. 230)
- Management Information Systems, Minor (p. 231)
- Marketing, B.B.A. (p. 231)
- Marketing, Minor (p. 237)
- Sports Business, B.B.A. (p. 237)
- Sports Business, Minor (p. 238)

Courses

- General Education Course

Entrepreneurship

ENT 220 Creativity & Innovation **3 Credit hours**
Introduction to creativity theory, including exposure to basic frameworks, concepts, and obstacles to creativity. Through practical application, the relationships between creativity, innovation and entrepreneurship are explored.
Grade Mode: Normal Grading Mode

ENT 280 Special Topics **1-4 Credit hours**
Special topics in entrepreneurship.
Grade Mode: Normal Grading Mode

ENT 320 Marketing for Entrepreneurs **3 Credit hours**
Survey of inbound digital marketing strategies that are cost effective for small firms and start-ups. Strategies include search engine optimization and content marketing.
Grade Mode: Normal Grading Mode

ENT 340 Business Models for Start-Ups **3 Credit hours**
Identification and evaluation of business opportunities; Systematic analysis and design of critical start-up business components.
Pre-req: ENT 220 with a minimum grade of D and ENT 360 with a minimum grade of D.
Grade Mode: Normal Grading Mode

ENT 350 The Startup Experience **3 Credit hours**
An experiential learning course, students will complete a portion of this course as an apprentice at a new or small business followed by experience starting an online business. (PR: MGT 360)
Pre-req: ENT 360 with a minimum grade of D.
Grade Mode: Normal Grading Mode

ENT 360 Intro to Entrepreneurship **3 Credit hours**
A study of the functions, techniques and problems of management of the small business enterprise as opposed to the large-scale corporate situation. The day section, in cooperation with the U.S. Small Business Administration, provides students with field experience as management consultants to an area small business.
Pre-req: MGT 320 with a minimum grade of D or MKT 340 with a minimum grade of D.
Grade Mode: Normal Grading Mode

ENT 370 Dilemmas & Debates in Entrp **3 Credit hours**
Refered by a faculty member, students will engage with entrepreneurs to discuss issues relevant to new ventures including partnerships, working with family, debt, ethical dilemmas, and customer issues.
Pre-req: ENT 360 with a minimum grade of D.
Grade Mode: Normal Grading Mode

ENT 380 Social Entrepreneurship **3 Credit hours**
Introduces students to social entrepreneurship, social venture models, and funding options including philanthropy, government funding, and income generating, self-sustaining business models.
Pre-req: MGT 360 with a minimum grade of D or ENT 360 with a minimum grade of D.
Grade Mode: Normal Grading Mode

ENT 410 Corporate Intrapreneurship **3 Credit hours**
Application of entrepreneurial mindset, behavior, and capability to the development of new opportunities within an existing organization.
Pre-req: ENT 220 with a minimum grade of D and ENT 360 with a minimum grade of D.
Grade Mode: Normal Grading Mode

ENT 467 Strategic Entrepreneurship **3 Credit hours**
Lean startup and strategic thinking from both causation and effectuation viewpoints utilizing interdisciplinary skills to develop an original business concept, model, and plan. Capstone course.
Pre-req: ENT 350 with a minimum grade of D.
Attributes: Capstone Course
Grade Mode: Normal Grading Mode

ENT 469 New Venture Launch **3 Credit hours**
Working with advisor and mentors, students start their own ventures, develop prototypes (or service simulation), conduct market test, pivot on their original plans, and pitch ideas to local entrepreneur community.
Pre-req: ENT 467 with a minimum grade of D.
Grade Mode: Normal Grading Mode

ENT 471 Social Enterprise Practicum **3 Credit hours**
Supervised field experience in a social enterprise for a minimum of 200 clock hours. Regular conferences with instructor and weekly progress reports.
Pre-req: ENG 471.
Grade Mode: Normal Grading Mode

ENT 472 New Venture Practicum **3 Credit hours**
Supervised field experience in a new or existing venture for a minimum of 200 clock hours. Regular conferences with instructor and weekly progress reports.
Pre-req: ENT 467 with a minimum grade of D.
Grade Mode: Normal Grading Mode

ENT 480 Special Topics **1-4 Credit hours**
Study of an advanced topic not normally covered in other courses.
Grade Mode: Normal Grading Mode

ENT 680 Entrepreneurship **3 Credit hours**
The management of small business emphasizes how they are started and financed, how they produce and market their products and services and how they manage their human resources.
Grade Mode: Normal Grading Mode

Management Information Systems

MIS 200 Bus Computer Applications **3 Credit hours**
An introduction to computer applications in business, including spreadsheets, databases, presentation and word processing. Students also learn to integrate spreadsheet and database outputs into presentations and reports. An introduction to computer applications in business, including spreadsheets, databases, presentation and word processing. Students also learn to integrate spreadsheet and database outputs into presentations and reports.
Grade Mode: Normal Grading Mode

MIS 290 Prin Management Info Systems **3 Credit hours**
Introduction to the development, selection, use, and impact of information and communication technologies and systems in modern organizations and enterprises.
Grade Mode: Normal Grading Mode

MIS 300 Intro to Business Programming **3 Credit hours**
Introduction to programming in a business context, emphasizing problem solving using basic programming logic and data structures, interface concepts, file and database access, and selection and use of development tools. (PR: MIS 290)
Pre-req: MIS 290 with a minimum grade of D.
Grade Mode: Normal Grading Mode

MIS 310 Bus Sys Analysis & Design **3 Credit hours**
The course covers business application systems development, behavioral considerations in the: development process, feasibility assessment, requirement analysis, and communication skills. Emphasis on prototyping and fourth generation languages. (PR: Passing the COB Computer Literacy Test and any programming language) The course covers business application systems development, behavioral considerations in the: development process, feasibility assessment, requirement analysis, and communication skills. Emphasis on prototyping and fourth generation languages. (PR: Passing the COB Computer Literacy Test and any programming language)
Grade Mode: Normal Grading Mode

MIS 333 Bus Telecomm Sys **3 Credit hours**
To understand the applications, concepts and management of telecommunications. Students will be exposed to network components and network operations. Emphasis will be on strategic business applications of telecommunication systems.
Grade Mode: Normal Grading Mode

MIS 340 Intro to Database Mgt Systems **3 Credit hours**
Introduction to enterprise data administration emphasizing database environment and architecture, relational model and languages, database requirements, and modeling. Introduction to the use of a database managment system.
Grade Mode: Normal Grading Mode

MIS 360 Intro to Bus Intel & Analytics **3 Credit hours**
Introduction to the field of business intelligence & analytics, introducing the use of big data, statistical, quantitative analysis, exploratory and predictive models, and fact-based management to drive decisions and actions.
Pre-req: MGT 218 with a minimum grade of D and MIS 290 with a minimum grade of D.
Co-req: MIS 340
Grade Mode: Normal Grading Mode

MIS 400 MIS Practicum **1-3 Credit hours**
Students explore career interests, while applying classroom knowledge and skills, gaining a clearer sense of what they still need to learn and an opportunity to build professional networks.
Grade Mode: Normal Grading Mode

MIS 420 Info Security Management **3 Credit hours**
A study of information security risk analysis and assessment; threats to information security; defense measures; and legal, privacy, and ethical issues in information security.
Grade Mode: Normal Grading Mode

MIS 470 Business Sys Proj Mgt **3 Credit hours**
Project management for information and process-oriented organizational systems. Tools, techniques, feasibility, post-project evaluation, information and knowledge exchange, change and vendor management. (PR:290/permission of COB)
Grade Mode: Normal Grading Mode

MIS 475 Strat Management Info Systems **3 Credit hours**
A capstone course for management majors. Emphasis will be on creating and using information systems to give businesses a competitive advantage and provide strategic support for all levels of management.
Pre-req: MIS 470 with a minimum grade of D.
Attributes: Capstone Course
Grade Mode: Normal Grading Mode

MIS 480 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

MIS 485 Independent Study **1-4 Credit hours**
Grade Mode: Normal Grading Mode

MIS 490 Internship **3-12 Credit hours**
Grade Mode: Credit/No Credit Grade Only

MIS 600 Management Information Systems **3 Credit hours**
The course examines personal, work group, and enterprise information systems with respect to their value, their components, and the process of developing them.
Grade Mode: Normal Grading Mode

MIS 605 Systems Analysis and Design **3 Credit hours**
Introduction to information systems from system implementor's viewpoint; information systems life cycle; techniques of analysis; data dictionaries and data flow diagrams; computer-oriented system description. (PR: Admission to program)
Grade Mode: Normal Grading Mode

MIS 610 Systems Quality Assurance **3 Credit hours**
This course will cover the steps in developing enterprise IT policies, standards, guidelines and procedures while ensuring quality and compliance responsible for the design, implementation , and evaluation, and monitoring of a comprehensive system. Physical design of information systems; hardware selection; software design; database considerations; program development; software structuring techniques; cost/performance trade-offs; system implementation; evaluation and optimization techniques.
Pre-req: MIS 605 with a minimum grade of C.
Grade Mode: Normal Grading Mode

MIS 612 ITM Capstone Project **3 Credit hours**
Tools and techniques for analyzing companies and their financial statements and for evaluating financial alternatives, including discounted cash flow, net present value and returned on investment.
Grade Mode: Normal Grading Mode

MIS 615 Info Tech Strategies **3 Credit hours**
This course provides sound principles for managing information technology computers and telecommunications systems as well as the processes and procedures for applying the principles.
Grade Mode: Normal Grading Mode

MIS 620 Technology Planning **3 Credit hours**
Methods of technology planning, strategic management, and forecasting for use in technology intensive organizations are discussed, including technology life cycles and strategies for commercializing products.
Grade Mode: Normal Grading Mode

MIS 621 Information Structures I **3 Credit hours**
Representation and manipulation of numeric and non-numeric information, linear lists, strings, multilinked structures; sorting and searching; storage management; data structures in programming language. Relevant aspects of discrete mathematics.
Grade Mode: Normal Grading Mode

MIS 622 Emerging Tech in Info Systems **3 Credit hours**
This course will explore the emerging technologies in information systems. These technologies are generally new but include older technologies that are still controversial and relatively undeveloped in potential. A continuation of MIS 621. Tree, graph, and set structures; file structures for secondary storage; aspects of discrete mathematics.
Pre-req: MIS 621 with a minimum grade of C.
Grade Mode: Normal Grading Mode

MIS 623 Database Management **3 Credit hours**
Review of information structures and of relationships among data elements and objects. Relational database theory; design and organization of databases, retrieval structures, and query mechanisms.
Grade Mode: Normal Grading Mode

MIS 624 Data Warehousing **3 Credit hours**
A hand-on introduction to the concepts and techniques of data warehousing and data mining.
Pre-req: MIS 623 with a minimum grade of C.
Grade Mode: Normal Grading Mode

MIS 630 Qual & Prod Methods **3 Credit hours**
Study of quality and productivity improvement methods with emphasis on applications to knowledge worker organizations. Examines total quality management, and personal and organizational productivity improvement processes.
Grade Mode: Normal Grading Mode

MIS 647 IT Disaster Plan and Recovery **3 Credit hours**
This course provides the skills necessary to manage IT disaster recovery planning. The course focuses on the protection of information. Students will analyze risk, design a plan, and explore available technologies.
Grade Mode: Normal Grading Mode

MIS 650 Special Topics **1-4 Credit hours**
Permission of the division head and full MBA admission.
Grade Mode: Normal Grading Mode

MIS 651 Special Topics **1-4 Credit hours**
Permission of the division head and full MBA admission
Grade Mode: Normal Grading Mode

MIS 659 Digital Access Pol & Strats **3 Credit hours**
An introductory course for creating digital accessibility policies and plans for the workplace. Includes strategies to create accessible documents, evaluate web site accessibility, and investigate assistive technologies.
Grade Mode: Normal Grading Mode

MIS 660 Computing & Info Sys Tech **3 Credit hours**
Provides a board understanding of computing and information systems technologies with emphasis on development, current trends, strategic and tactical management, and legal and regulatory issues.
Grade Mode: Normal Grading Mode

MIS 670 Business Sys Proj Mgt **3 Credit hours**
This course presents concepts, structures and experiential learning strategies to help lead and participate in successful business systems projects using the Project Management Institute's (PMI's) methodology.
Grade Mode: Normal Grading Mode

MIS 678 Management Infor Systems **3 Credit hours**
To familiarize students with the characteristics and functions of management information systems, as well as the benefits, limitations, and applications for advanced management information systems.
To familiarize students with the characteristics and functions of management information systems, as well as the benefits, limitations, and applications for advanced management information systems.
Grade Mode: Normal Grading Mode

MIS 680 Health Comm Telematics **3 Credit hours**
A presentation and analysis of the primary and emerging technological means of communication, collaboration, and information search and retrieval within the healthcare and medical fields.
Grade Mode: Normal Grading Mode

MIS 681 Thesis **1-6 Credit hours**
Investigate a research problem of theoretical interest and practical value under mentorship of a management information systems faculty.
Attributes: Thesis
Grade Mode: Credit/No Credit Grade Only

MIS 685 Bus Intel/Analytics **3 Credit hours**
Introduction to methods to improve fact-based managerial decision making. Focus on analytics types and data manipulation to discover patterns and generate information associated with products and services.
Pre-req: MIS 678 with a minimum grade of C.
Grade Mode: Normal Grading Mode

MIS 688 Independent Study **1-4 Credit hours**
An approved study of special interests concerning information technology management, under the supervision of a faculty member.
Grade Mode: Normal Grading Mode

MIS 698 ITM Internship **3 Credit hours**
Supervised on-the-job experience. The student will work in a technology company or technical department within an organization. (PR: Permission)
Attributes: No Textbook Required
Grade Mode: Credit/No Credit Grade Only

MIS 699 ITM Capstone Project **3 Credit hours**
An individualized information technology management capstone project, which will be planned and carried out under the supervision of a faculty member. (PR: Full Admission to the ITM program, and completion of 28 hours min toward ITM degree).
Grade Mode: Credit/No Credit Grade Only

Marketing

MKT 231 Principles of Selling **3 Credit hours**
Elements of professional personal selling from prospecting through follow-up designed for individuals preparing for a career in sales/marketing and those desiring skills to influence, persuade, or lead others. Elements of professional personal selling from prospecting through follow-up designed for individuals preparing for a career in sales/marketing and those desiring skills to influence, persuade, or lead others.
Grade Mode: Normal Grading Mode

MKT 340 MKT Concepts and Applications **3 Credit hours**
Introduction to marketing as the central activity of organizations in creating exchanges with customers. Focuses on strategies related to environmental opportunities and threats using product, price, promotion and distribution tools. Introduction to marketing as the central activity of organizations in creating exchanges with customers. Focuses on strategies related to environmental opportunities and threats using product, price, promotion and distribution tools.
Grade Mode: Normal Grading Mode

MKT 341 Integrated MKT Communications **3 Credit hours**
A managerial analysis of the principles and practices of the promotion mix from the viewpoints of the consumer, the firm, the industry, and the macroenvironment. A managerial analysis of the principles and practices of the promotion mix from the viewpoints of the consumer, the firm, the industry, and the macroenvironment.
Pre-req: MKT 340 with a minimum grade of D.
Grade Mode: Normal Grading Mode

MKT 344 Retail Management **3 Credit hours**
Management of retail establishments including successful retail merchandising, stock control, buying, pricing, marketing, advertising, promotion, displaying, credit, and selling of goods and/or services. Management of retail establishments including successful retail merchandising, stock control, buying, pricing, marketing, advertising, promotion, displaying, credit, and selling of goods and/or services.
Pre-req: MKT 340 with a minimum grade of D.
Grade Mode: Normal Grading Mode

MKT 345 Hospitality & Tour Marketing **3 Credit hours**
Acquaint students with the marketing functions within the hospitality and tourism industry to develop effective marketing plans and gain an understanding of hospitality and tourism consumer behavior.
Grade Mode: Normal Grading Mode

MKT 349 Prin Domestic Transport **3 Credit hours**
Introduction to the history, economics, and regulation of U.S. domestic motor, rail, air and pipline transportation. Particular emphasis is placed upon the significance of transporation to the development of the United States and today's economy. Introduction to the history, economics, and regulation of U.S. domestic motor, rail, air and pipline transportation. Particular emphasis is placed upon the significance of transporation to the development of the United States and today's economy.
Grade Mode: Normal Grading Mode

MKT 350 Supply Chain Logistics **3 Credit hours**
A supply chain approach is used to explain activities that create an efficient flow of products from point of origin to point of consumption in order to satisfy customer requirements. A supply chain approach is used to explain activities that create an efficient flow of products from point of origin to point of consumption in order to satisfy customer requirements.
Grade Mode: Normal Grading Mode

MKT 371 International Marketing **3 Credit hours**
A study of marketing across national borders. Emphasis is placed on international environments, methods of entry, and marketing mix development, including the conflict between standardization and adaptation.
Pre-req: MKT 340 with a minimum grade of D.
Attributes: International
Grade Mode: Normal Grading Mode

MKT 375 Business to Business Marketing **3 Credit hours**
Study of marketing products and services to business, institutions and government. Focus on organizational buying, market planning and development of marketing mix. (Prerequisite: MKT 340) Study of marketing products and services to business, institutions and government. Focus on organizational buying, market planning and development of marketing mix. (Prerequisite: MKT 340)
Grade Mode: Normal Grading Mode

MKT 400 Social Media Marketing **3 Credit hours**
Social media as a marketing function: Students will gain the knowledge and skills necessary to engage and service the customer and explore the strategic use of current social media platforms.
Pre-req: MKT 340 with a minimum grade of D.
Grade Mode: Normal Grading Mode

MKT 425 Marketing Analytics **3 Credit hours**
Students analyze data to make marketing decisions regarding segmentation and target market selection, product positioning, brand choice, customer relationship management, pricing, customer lifetime value, and other areas.
Pre-req: (MGT 218 with a minimum grade of D or STA 225 with a minimum grade of D or MTH 225 with a minimum grade of D or MGT 318 with a minimum grade of D or IST 130 with a minimum grade of D or EDF 417 with a minimum grade of D or PSY 223 with a minimum grade of D or SOC 345 with a minimum grade of D) and MKT 340 with a minimum grade of D.
Grade Mode: Normal Grading Mode

MKT 430 Digital Marketing **3 Credit hours**
Introduction to Google AdWords, Google Analytics, search engine optimization (SEO), website design, content and email marketing.
Pre-req: MKT 340 with a minimum grade of D.
Grade Mode: Normal Grading Mode

MKT 435 Internet Marketing **3 Credit hours**
Introduction to Internet as a sales and marketing tool, web page development, strategic planning for e-commerce, non-Internet functions which support e-commerce, and integration of e-commerce into conventional MKT mix. Introduction to Internet as a sales and marketing tool, web page development, strategic planning for e-commerce, non-Internet functions which support e-commerce, and integration of e-commerce into conventional MKT mix.
Pre-req: MKT 340 with a minimum grade of D.
Grade Mode: Normal Grading Mode

MKT 437 Consumer Behavior **3 Credit hours**
Acquaints the student with individual and group behavior as it pertains to consumer activity. Theories and findings in the behavioral sciences, as well as those set forth by the marketing scholars, are examined so as to understand the behavioral patterns of consumers. Cultural, social, and psychological influences are considered, in addition to the traditional economic interpretations. The stress of the course is on incorporating these data into the managing of the marketing effort. Acquaints the student with individual and group behavior as it pertains to consumer activity. Theories and findings in the behavioral sciences, as well as those set forth by the marketing scholars, are examined so as to understand the behavioral patterns of consumers. Cultural, social, and psychological influences are considered, in addition to the traditional economic interpretations. The stress of the course is on incorporating these data into the managing of the marketing effort.
Grade Mode: Normal Grading Mode

MKT 440 Sales Management **3 Credit hours**
An exploration of the duties and activities of sales managers. Topics typically include planning and forecasting as well as organizing, staffing, training, compensating, motivating, and evaluating the sales force. (PR: MKT 340) An exploration of the duties and activities of sales managers. Topics typically include planning and forecasting as well as organizing, staffing, training, compensating, motivating, and evaluating the sales force. (PR: MKT 340)
Pre-req: MKT 340 with a minimum grade of D.
Grade Mode: Normal Grading Mode

MKT 442 Market Research **3 Credit hours**
Scope and importance of market and distribution research; product, package, brand analysis and social impact; consumer, industrial and institutional surveys, quantitative and qualitative analysis of market data; situation analysis, sampling, tabulation and presentation methods. Scope and importance of market and distribution research; product, package, brand analysis and social impact; con- sumer, industrial and institutional surveys, quantitative and qualitative analysis of market data; situation analysis, sampling, tabulation and presentation methods.
Pre-req: MKT 340 with a minimum grade of D and (MGT 218 with a minimum grade of D or MTH 225 with a minimum grade of D or STA 225 with a minimum grade of D or IST 130 with a minimum grade of D or EDF 417 with a minimum grade of D or PSY 223 with a minimum grade of D or SOC 345 with a minimum grade of D).
Grade Mode: Normal Grading Mode

MKT 445 Services Marketing **3 Credit hours**
Examination of the marketing of services offered by business and non-business organizations with particular emphasis on the unique aspect of the services marketing mix and the implementation of service strategy. (Prerequisite: MKT 340) Examination of the marketing of services offered by business and non-business organizations with particular emphasis on the unique aspect of the services marketing mix and the implementation of service strategy. (Prerequisite: MKT 340)
Grade Mode: Normal Grading Mode

MKT 465 Strategic Marketing **3 Credit hours**
Capstone integrated study of marketing for decision making. Emphasis on the application of marketing principles and concepts for the purpose of developing, analyzing, and mofifying marketing plans and strategy. (PR: MKT 340 and Senior Standing). Capstone integrated study of marketing for decision making. Emphasis on the application of marketing principles and concepts for the purpose of developing, analyzing, and mof- ifying marketing plans and strategy. (PR: MKT 340 and Senior Standing).
Pre-req: MKT 231 with a minimum grade of D and MKT 437 with a minimum grade of D and MKT 442 with a minimum grade of D.
Attributes: Capstone Course
Grade Mode: Normal Grading Mode

MKT 480 Special Topics **1-4 Credit hours**
Study of an advanced topic not normally covered in other courses. Marketing majors only, with permission of department chairman. Study of an advanced topic not normally covered in other courses. Marketing majors only, with permission of depart- ment chairman.
Grade Mode: Normal Grading Mode

MKT 485 Independent Study **1-4 Credit hours**
Grade Mode: Normal Grading Mode

MKT 490 Internship **3-12 Credit hours**
A supervised experience in which the student works for a business firm/agency to gain practical experience by completing a defined work program. Student performance is evaluated. This course may not be used as a marketing elective.
Grade Mode: Credit/No Credit Grade Only

MKT 511 Marketing and Management **3 Credit hours**
A comprehensive survey of the fundamental principles of management and marketing applicable to all organizations. Provides the student with a basis for analyzing appropriate situations in a managment/marketing framework. A comprehensive survey of the fundamental principles of management and marketing applicable to all organizations. Provides the student with a basis for analyzing appropriate situations in a managment/marketing framework.
Grade Mode: Normal Grading Mode

MKT 580 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

MKT 581 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

MKT 600 Marketing Management **3 Credit hours**
Grade Mode: Normal Grading Mode

MKT 610 Mkt/Nonprofit Organizations **3 Credit hours**
Grade Mode: Normal Grading Mode

MKT 625 Hosp and Tourism Marketing **3 Credit hours**
Examinatino of marketing principles and the unique aspects of services marketing for the purpose of strategic decision making, marketing management and developing marketing plans in the tourism and hospitality industry. Examinatino of marketing principles and the unique aspects of services marketing for the purpose of strategic decision making, marketing management and developing marketing plans in the tourism and hospitality industry.
Grade Mode: Normal Grading Mode

MKT 650 Special Topics **1-4 Credit hours**
Pre-req: MKT 501 with a minimum grade of C.
Grade Mode: Normal Grading Mode

MKT 651 Special Topics **1-3 Credit hours**
Grade Mode: Normal Grading Mode

MKT 660 Independent Study **1-4 Credit hours**
Pre-req: MKT 682 with a minimum grade of C.
Grade Mode: Normal Grading Mode

MKT 681 Thesis **1-6 Credit hours**
Attributes: Thesis
Grade Mode: Normal Grading Mode

MKT 682 Adv Marketing Management **3 Credit hours**
An integrated approach to marketing from a managerial point of view-making use of economic, quantitative, and behavioral concepts in analyzing and developing a framework for the dicision-making and implementation of the firm's marketing program. An integrated approach to marketing from a managerial point of view-making use of economic, quantitative, and behavioral concepts in analyzing and developing a framework for the dicision-making and implementation of the firm's marketing program.
Pre-req: MKT 511 with a minimum grade of C.
Grade Mode: Normal Grading Mode

MKT 683 Adv Marketing Research **3 Credit hours**
A study of research methods and procedures used in the marketing process; emphasis will be given to the sources of market data, sampling, preparation of questionnaires, collection and interpretation of data. A study of research methods and procedures used in the marketing process; emphasis will be given to the sources of market data, sampling, preparation of questionnaires, col- lection and interpretation of data.
Pre-req: MKT 682 with a minimum grade of C and MGT 601 with a minimum grade of C.
Grade Mode: Normal Grading Mode

MKT 684 Global Marketing **3 Credit hours**
This course provides a decision-oriented approach to global marketing; focus will be placed on market entry strategies, segmentation techniques, and marketing mix decisions in a multi-national environment.
Grade Mode: Normal Grading Mode

MKT 685 Marketing Problems **3 Credit hours**
Determination of the marketing mix within the framework of the problem-solving and decision-making process. Determination of the marketing mix within the framework of the problem-solving and decision-making process.
Pre-req: MKT 682 with a minimum grade of C.
Grade Mode: Normal Grading Mode

MKT 686 IMC for Prof Services **3 Credit hours**
The importance and application of integrated marketing communications in marketing professional services are examined. Information is drawn from business and other areas of study and experiential learning activities are incorporated.
Pre-req: MKT 501 with a minimum grade of C.
Grade Mode: Normal Grading Mode

MKT 698 Independent Study in Marketing **1-3 Credit hours**
Grade Mode: Normal Grading Mode

MKT 749 Research Paper **3 Credit hours**
Grade Mode: Normal Grading Mode

MKT 797 THESIS **6 Credit hours**
Attributes: Thesis
Grade Mode: Normal Grading Mode

Sport, Tourism and Hospitality Management

STHM 218 Sports in Society (CT) **3 Credit hours**
A study of the possible interrelationship between physical activity and various sociocultural factors.
Attributes: Critical Thinking, Multicultural
Grade Mode: Normal Grading Mode

STHM 250 Intro to Sport Management **3 Credit hours**
The student will gain knowledge in sport management with multiple emphasis including professional, collegiate, and recreational sports.
Grade Mode: Normal Grading Mode

STHM 270 Sport Tourism **3 Credit hours**
This course introduces students to the nature, structure, and complexity of the sport tourism industry. Topics covered include: economic, sociocultural and environmental impacts, motivations, marketing, and development principles.
Grade Mode: Normal Grading Mode

STHM 290 Sport Management Practicum **3 Credit hours**
Supervised experience with classroom setting that emphasizes a variety of skills and exploration of career opportunities in Sport Management (CR: Admission to Sport Management Program).
Pre-req: STHM 250 with a minimum grade of C or ESS 250 with a minimum grade of C.
Grade Mode: Normal Grading Mode

STHM 320 Sports & Campus Rec Mgmt **3 Credit hours**
This course will deal with the fields of recreational sports and campus recreation management. It will present the foundations of both fields, the development, implementation and trends in today's programs.
Grade Mode: Normal Grading Mode

STHM 380 Sport Marketing **3 Credit hours**
A study of the application of marketing concepts to the sport industry (PR: MKT 340)
Grade Mode: Normal Grading Mode

STHM 381 Financing Sports **3 Credit hours**
This course focuses on how sports managers find and manage funding sources for the sports industry through ticket and merchandise sales, venues and sports properties, and fundraising, etc.
Grade Mode: Normal Grading Mode

STHM 390 Sport MGT Pre-Internship **3 Credit hours**
A classroom setting with additional required clinical hours in the sport and leisure industry setting emphasizing a variety of work experiences and internship application skills in Sport Management. (PR: STHM 290 with minimum B and minimum 2.2 GPA)
Pre-req: STHM 290 with a minimum grade of B or ESS 290 with a minimum grade of B.
Grade Mode: Normal Grading Mode

STHM 401 Ethics in Sport **3 Credit hours**
Philosophical of and historical background to the development of values in contemporary society and examination of how these are manifested in the sports world.
Grade Mode: Normal Grading Mode

STHM 405 Sport Psychology **3 Credit hours**
An examination of theory, research, and application of psychological principles related to sport and exercise.
Pre-req: PSY 201 with a minimum grade of D.
Grade Mode: Normal Grading Mode

STHM 410 Leadership: Theory & Practice **3 Credit hours**
This course provides students with the comprehensive application of leadership theories and practice in the sport, tourism and hospitality management field.
Grade Mode: Normal Grading Mode

STHM 416 Facility Design & Management **3 Credit hours**
This course covers quantity, location, and design standards for facilitates. Includes safety, functionality, durability, and maintenance requirements in planning and design. (PR: Junior or Senior Standing)
Grade Mode: Normal Grading Mode

STHM 425 Sport in Film **3 Credit hours**
The relationship between sport and feature motion pictures are analyzed in the historical, social and cultural contexts. (PR: Junior or senior standing)
Grade Mode: Normal Grading Mode

STHM 430 Sport Law **3 Credit hours**
Study of the basic principles of the legal system as they operate in the environment of American sport. (PR: Junior or senior standing)
Grade Mode: Normal Grading Mode

STHM 440 Women in Sport **3 Credit hours**
The history of women in sport, gender equity, the opportunities for women and intercollegiate and professional sports (such as participant, coach, trainer, journalist, agent and promoter), and physiological perspectives.
Grade Mode: Normal Grading Mode

STHM 450 Sport Agent **3 Credit hours**
This course focuses on the understanding of sport agent industry and structure.
Pre-req: STHM 250 with a minimum grade of D.
Grade Mode: Normal Grading Mode

STHM 452 Sport Analytics **3 Credit hours**
By using various tools such as sport analytics, key performance indicators (KPI), balanced scorecard, and other techniques, this course focuses on exploring, identifying and solving problems using data (PR: minimum B grade in MGT 218, JR or SR standing)
Pre-req: MGT 218 with a minimum grade of B.
Grade Mode: Normal Grading Mode

STHM 458 Sales & Promotion MGT in Sport **3 Credit hours**
A study of sales and promotion management in sport and leisure industry.
Pre-req: (STHM 380 with a minimum grade of D or ESS 380 with a minimum grade of D).
Grade Mode: Normal Grading Mode

STHM 475 Capstone Seminar **3 Credit hours**
Application of all aspects involved in the Sport, Tourism and Hospitality Management to individually designed projects. Fulfills the capstone requirement for undergraduate majors (PR: SR standing in Sport Management)
Attributes: Capstone Course
Grade Mode: Normal Grading Mode

STHM 480 Special Topics **1-4 Credit hours**
Special Topics
Grade Mode: Normal Grading Mode

STHM 481 Special Topics **1-4 Credit hours**
Special Topics
Grade Mode: Normal Grading Mode

STHM 482 Special Topics **1-4 Credit hours**
Special Topics
Grade Mode: Normal Grading Mode

STHM 483 Special Topics **1-4 Credit hours**
Special Topics
Grade Mode: Normal Grading Mode

STHM 485 Independent Study **1-4 Credit hours**
Independent Study
Grade Mode: Normal Grading Mode

STHM 486 Independent Study **1-4 Credit hours**
Independent Study
Grade Mode: Normal Grading Mode

STHM 487 Independent Study **1-4 Credit hours**
Independent Study
Grade Mode: Normal Grading Mode

STHM 488 Independent Study **1-4 Credit hours**
Independent Study
Grade Mode: Normal Grading Mode

STHM 490 Internship **3-8 Credit hours**
Internship experience in a Sports, Tourism and Hospitality agencies. (PR: STHM 290, 390 with minimum B; minimum 2.2 GPA and Senior standing)
Pre-req: (STHM 290 with a minimum grade of B or ESS 290 with a minimum grade of B) and (STHM 390 with a minimum grade of B or ESS 390 with a minimum grade of B).
Grade Mode: Normal Grading Mode

STHM 496 Olympic Games **3 Credit hours**
Exploring the important role of the Olympic Movement in politics since the modern Olympic Movement in 1896. (PR: JR and SR standing)
Attributes: International
Grade Mode: Normal Grading Mode

STHM 505 Sport Psychology **3 Credit hours**
An examination of theory, research, and application of psychological principles related to sport and exercise.
Grade Mode: Normal Grading Mode

STHM 511 Ethics in Sports **3 Credit hours**
A philosophical examination of both the fundamental ethical principles, as well as, the most common ethical dilemmas and controversies found in sports.
Grade Mode: Normal Grading Mode

STHM 516 Facility Design & Management **3 Credit hours**
This course covers quantity, location, and design standards for facilities. Includes safety, functionality, durability, and maintenance requirements in planning and design.
Grade Mode: Normal Grading Mode

STHM 525 Sport in Film **3 Credit hours**
The relationship between sports and feature motion pictures are analyzed in the historical, social and cultural contexts.
Grade Mode: Normal Grading Mode

STHM 530 Sport Law **3 Credit hours**
The study of the basic principles of the legal system as they operate in the environment of American sport.
Grade Mode: Normal Grading Mode

STHM 540 Women in Sport **3 Credit hours**
The history of women in sport, gender equity, opportunities for women in intercollegiate and professional sports (such as participant, coach, trainer, journalist, agent and promoter), and physiological perspectives.
Grade Mode: Normal Grading Mode

STHM 552 Sports Analytics **3 Credit hours**
By using various tools such as sport analytics, key performance indicators (KPI), balanced scorecard, and other techniques, this course focuses on exploring, identifying and solving problems using data.
Grade Mode: Normal Grading Mode

STHM 575 Sem Sport MGT MKT **3 Credit hours**
This course is designed to provide students with an overview of all aspects involved in the Sports Management and Marketing field through classroom lectures, guest speakers, and field trips.
Grade Mode: Normal Grading Mode

STHM 580 Special Topics **1-4 Credit hours**
Special topics are experimental courses that offered by the Sport, Tourism and Hospitality Management department.
Grade Mode: Normal Grading Mode

STHM 581 Special Topics **1-4 Credit hours**
Special topics are experimental courses that offered by the Sport, Tourism and Hospitality Management department.
Grade Mode: Normal Grading Mode

STHM 582 Special Topics **1-4 Credit hours**
Special topics are experimental courses that offered by the Sport, Tourism and Hospitality Management department.
Grade Mode: Normal Grading Mode

STHM 583 Special Topics **1-4 Credit hours**
Special topics are experimental courses that offered by the Sport, Tourism and Hospitality Management department.
Grade Mode: Normal Grading Mode

STHM 596 Olympic Games **3 Credit hours**
Exploring the important role of the Olympic Movement in politics since the modern Olympic Movement in 1896.
Grade Mode: Normal Grading Mode

STHM 615 Legal Concerns in STHM **3 Credit hours**
This course is designed to prepare students with the knowledge and the ability to apply the legal doctrines that will enhance their ability to problem-solve effectively and make prudent management and operational decisions.
Grade Mode: Normal Grading Mode

STHM 624 Current Issues in STHM **3 Credit hours**
An in-depth look at current issues affecting all areas of the Sport, Tourism and Hospitality Management field.
Grade Mode: Normal Grading Mode

STHM 643 Sport in Social Process **3 Credit hours**
An in depth analysis of the processes by which sport evolved as a significant component of modern American life.
Grade Mode: Normal Grading Mode

STHM 652 Organ Behav Sprt Leis Indus **3 Credit hours**
Examine the complexity of human behavior in organizational settings in sport and leisure industry, and the role of managers and leaders in affecting that behavior.
Grade Mode: Normal Grading Mode

STHM 660 Internship **3-6 Credit hours**
The placement of an individual into a Sport, Tourism and Hospitality agency to observe and participate in its operation.
Grade Mode: Normal Grading Mode

STHM 671 Research in Sports Studies **3 Credit hours**
This course provides student with a fundamental understanding of research principles, concepts, methods, techniques, and application related to sports studies.
Grade Mode: Normal Grading Mode

STHM 674 Sport Finance Economics **3 Credit hours**
This course will provide students with an understanding of financial and economic principles relevant to the sport industry. The course also provides a comprehensive coverage of current economic and financial issues confronting the sport industry.
Grade Mode: Normal Grading Mode

STHM 675 MKT MGT of Sport Industry **3 Credit hours**
Advanced level of marketing concepts in sports industry.
Pre-req: ESS 670 with a minimum grade of D or STHM 671 with a minimum grade of D.
Grade Mode: Normal Grading Mode

STHM 681 Thesis **1-6 Credit hours**
Research opportunities in the STHM field are broad. Students can choose to work with one of the faculty members on a research direction which the faculty and student choose.
Attributes: Thesis
Grade Mode: Normal Grading Mode

STHM 685 Independent Study **1-4 Credit hours**
Independent studies are tutorials, directed and independent readings, directed and independent research, problem reports, and other individualized activities which allow students to explore in depth a specific aspect.
Grade Mode: Normal Grading Mode

STHM 686 Independent Study **1-4 Credit hours**
Independent studies are tutorials, directed and independent readings, directed and independent research, problem reports, and other individualized activities which allow students to explore in depth a specific aspect.
Grade Mode: Normal Grading Mode

STHM 687 Independent Study **1-4 Credit hours**
Independent studies are tutorials, directed and independent readings, directed and independent research, problem reports, and other individualized activities which allow students to explore in depth a specific aspect.
Grade Mode: Normal Grading Mode

STHM 688 Independent Study **1-4 Credit hours**
Independent studies are tutorials, directed and independent readings, directed and independent research, problem reports, and other individualized activities which allow students to explore in depth a specific aspect.
Grade Mode: Normal Grading Mode

STHM 696 Seminar in STHM **3 Credit hours**
Course is designed to provide students with an overview to all aspects involved in the Sport, Tourism and Hospitality field through classroom lectures, guest speakers, and field trips.
Grade Mode: Normal Grading Mode

Entrepreneurship, B.B.A.

- General Education Course

- Milestone course: a key success marker for your major. See your advisor to discuss the importance of this course in your plan of study.

Major

The Core Curriculum is designed to foster critical thinking skills and introduce students to basic domains of thinking that transcend disciplines. The Core applies to all majors. Information on specific classes in the Core can be found at https://www.marshall.edu/gened/.

Code	Title	Credit Hours
Core Curriculum		
Core 1: Critical Thinking		
FYS 100	First Yr Sem Critical Thinking	3
PSY 201	Introductory Psychology (CT)	3
ACC 215	Accounting Principles (CT)	3
Core 2		
ENG 101	Beginning Composition	3

ENG 201	Advanced Composition	3
CMM 207	Bus & Prof Communication	3
STA 150	Foundations of Statistics	3
STA 150L	Foundations of Statistics Lab	1
Core II Natural/Physical Science		4
Core II Humanities		3
PSY 201	Introductory Psychology (CT)	3
Core II Fine Arts		3
Additional University Requirements		
ENG 204	Writing for the Workplace (Writing Intensive)	3
MGT 460	Strategic Management (Writing Intensive)	3
MC or I: Intl Business Elective		3
ENT 467	Strategic Entrepreneurship (Capstone)	3
College-Specific		
ENG 204	Writing for the Workplace	3
ACC 215	Accounting Principles (CT)	3
ACC 216	Principles of Accounting	3
ECN 250	Principles Microeconomics	3
ECN 253	Principles Macroeconomics	3
FIN 323	Principles of Finance	3
LE 207	Legal Environ of Business	3
MIS 200	Bus Computer Applications	3
MIS 290	Prin Management Info Systems	3
MGT 218	Business Quantitative Methods	3
MGT 320	Principles of Management	3
MGT 460	Strategic Management	3
MKT 340	MKT Concepts and Applications	3
Communication Studies Elective:		
Select one of the following:		3
CMM 302	Professional Presentations	
CMM 308	Persuasive Communication	
CMM 315	Group Communication	
CMM 319	Superior-Subordinate Comm	
CMM 322	Intercultural Communication	
International Business Elective:		
Select one of the following:		3
ECN 408	Comparative Econ Systems	
ECN 420	International Trade	
ECN 421	Global Macroeconomic Analysis	
ECN 460	Economic of Dev Countries	
FIN 440	International Fin Management	
MGT 445	International Management	
MKT 371	International Marketing	
Major-Specific		
ENT 220	Creativity & Innovation	3
ENT 320	Marketing for Entrepreneurs	3
ENT 340	Business Models for Start-Ups	3
ENT 350	The Startup Experience	3
ENT 360	Intro to Entrepreneurship	3
ENT 410	Corporate Intrapreneurship	3
LE 366	Entrep Law & Ethics	3
ENT 467	Strategic Entrepreneurship	3
Free Elective		3
Free Elective		3
Free Elective		3
Free Elective		3
Free Elective		3
Free Elective		3
Free Elective		3

Major Information

- The total number of free electives required depends on the number of hours completed in STA 150 Foundations of Statistics or STA 150B Foundations of Stats-Expanded and ENG 101 Beginning Composition or ENG 101P Beginning Composition Plus and the number of hours that can be double-counted toward multiple degree requirements.
- Multicultural or International additional requirement met with International Business Elective.
- Please check with advisor about course offerings. Not all classes will be offered every semester.

- General Education Course

- Milestone course: a key success marker for your major. See your advisor to discuss the importance of this course in your plan of study.

Four Year Plan

The Department of Marketing, MIS and Entrepreneurship offers a Bachelor of Business Administration (BBA) degree in Entrepreneurship. Entrepreneurship is an interdisciplinary program that incorporates the business disciplines of management, finance, accounting, economics, marketing, and legal environment and the various disciplines of science, engineering, and psychology. In the program, you will be exposed to multiple disciplines and approaches to creativity, innovation, opportunity recognition, risk management, sourcing capital, and preparing for succession and/or harvesting opportunities in an experiential and student-centered learning environment.

Course	Title	Credit Hours
First Year		
First Semester		
FYS 100	First Yr Sem Critical Thinking	3
ENG 101	Beginning Composition	3
STA 150	Foundations of Statistics	3
STA 150L	Foundations of Statistics Lab	1
PSY 201	Introductory Psychology (CT)	3
MIS 200	Bus Computer Applications	3
UNI 100	Freshman First Class	1
	Credit Hours	**17**
Second Semester		
Free Elective		3
ECN 250	Principles Microeconomics	3
CMM 207	Bus & Prof Communication	3
Core II Physical or Natural Science		4

Core II Fine Arts		3
	Credit Hours	**16**
Second Year		
First Semester		
ACC 215	Accounting Principles (CT)	3
ECN 253	Principles Macroeconomics	3
ENG 201	Advanced Composition	3
LE 207	Legal Environ of Business	3
ENT 220	Creativity & Innovation	3
	Credit Hours	**15**
Second Semester		
ACC 216	Principles of Accounting	3
MGT 218	Business Quantitative Methods	3
ENG 204	Writing for the Workplace	3
ENT 360	Intro to Entrepreneurship	3
Core II Humanities		3
	Credit Hours	**15**
Third Year		
First Semester		
MGT 320	Principles of Management	3
MKT 340	MKT Concepts and Applications	3
MIS 290	Prin Management Info Systems	3
ENT 350	The Startup Experience	3
Free Elective		3
	Credit Hours	**15**
Second Semester		
LE 366	Entrep Law & Ethics	3
FIN 323	Principles of Finance	3
ENT 320	Marketing for Entrepreneurs	3
Free Elective		3
Free Elective		3
	Credit Hours	**15**
Fourth Year		
First Semester		
ENT 340	Business Models for Start-Ups	3
ENT 410	Corporate Intrapreneurship	3
CMM Elective		3
Free Elective		3
Free Elective		3
	Credit Hours	**15**
Second Semester		
MGT 460	Strategic Management	3
ENT 467	Strategic Entrepreneurship	3
International Business Elective		3
Free Elective		3
	Credit Hours	**12**
	Total Credit Hours	**120**

Entrepreneurship, Minor

For business majors

Required Courses: a minimum of 15 credit hours to include:

Code	Title	Credit Hours
ACC 215/216	Accounting Principles (CT)	3
ENT 360	Intro to Entrepreneurship	3
ENT 320	Marketing for Entrepreneurs	3
LE 366	Entrep Law & Ethics	3
Select one of the following:		3
Any ENT-designated course 300 level or above		
MGT 428	Negotiations	
MGT 429	Leadership	
MGT 446	Green Management	
MKT 231	Principles of Selling	
MKT 341	Integrated MKT Communications	
MKT 350	Supply Chain Logistics	
MKT 375	Business to Business Marketing	
MKT 435	Internet Marketing	
MKT 437	Consumer Behavior	
MKT 445	Services Marketing	
MKT 465	Strategic Marketing	
Total Credit Hours		**15**

For Non-Business Majors

Required Courses: a minimum of 15 credit hours to include:

Code	Title	Credit Hours
ACC 310	Acct for Entrepreneurs	3
ENT 360	Intro to Entrepreneurship	3
ENT 320	Marketing for Entrepreneurs	3
LE 366	Entrep Law & Ethics	3
Select one of the following:		3
Any ENT-designated course, 300 level or above		
MGT 320	Principles of Management	
MKT 231	Principles of Selling	
MKT 350	Supply Chain Logistics	
MKT 375	Business to Business Marketing	
MKT 437	Consumer Behavior	
MKT 445	Services Marketing	
Total Credit Hours		**15**

Hospitality and Tourism Marketing, Minor

A minimum of 15 credit hours in the following courses:

Code	Title	Credit Hours
MKT 345	Hospitality & Tour Marketing	3
LE 380	Tourism and Hospitality Law	3

MGT 335	Hospitality & Tourism Mgt	3
MKT 445	Services Marketing	3
Select one of the following:		3
MKT 400	Social Media Marketing	
STHM 270	Sport Tourism	
ENT 360	Intro to Entrepreneurship	
GEO 305	Geog of USA & Canada	
GEO 317	World Regional Geography	
NRRM 340	Special Event Managment	
NRRM 362	Ecotourism: Admin and Mgmt	
Total Credit Hours		**15**

Management Information Systems, B.B.A.

- General Education Course

- Milestone course: a key success marker for your major. See your advisor to discuss the importance of this course in your plan of study.

Major

The Core Curriculum is designed to foster critical thinking skills and introduce students to basic domains of thinking that transcend disciplines. The Core applies to all majors. Information on specific classes in the Core can be found at https://www.marshall.edu/gened/.

Code	Title	Credit Hours
Core Curriculum		
Core 1: Critical Thinking		
FYS 100	First Yr Sem Critical Thinking	3
PSY 201	Introductory Psychology (CT)	3
ACC 215	Accounting Principles (CT)	3
Core 2		
ENG 101	Beginning Composition (Writing Intensive)	3
ENG 201	Advanced Composition	3
CMM 207	Bus & Prof Communication	3
STA 150	Foundations of Statistics	3
STA 150L	Foundations of Statistics Lab	1
Core II Natural/Physical Science		4
Core II Humanities		3
PSY 201	Introductory Psychology (CT)	3
Core II Fine Arts		3
Additional University Requirements		
ENG 204	Writing for the Workplace (Writing Intensive)	3
MGT 460	Strategic Management (Writing Intensive)	3
MC or I: International Business Elective		3
MIS 475	Strat Management Info Systems (Capstone)	3
College-Specific		
ENG 204	Writing for the Workplace	3
ACC 215	Accounting Principles (CT)	3
ACC 216	Principles of Accounting	3
ECN 250	Principles Microeconomics	3
ECN 253	Principles Macroeconomics	3
FIN 323	Principles of Finance	3
LE 207	Legal Environ of Business	3
MIS 200	Bus Computer Applications	3
MIS 290	Prin Management Info Systems	3
MGT 218	Business Quantitative Methods	3
MGT 320	Principles of Management	3
MGT 460	Strategic Management	3
MKT 340	MKT Concepts and Applications	3
Communications Studies Elective:		
Select one of the following:		3
CMM 302	Professional Presentations	
CMM 308	Persuasive Communication	
CMM 315	Group Communication	
CMM 319	Superior-Subordinate Comm	
CMM 322	Intercultural Communication	
International Business Elective:		
Select one of the following:		3
ECN 408	Comparative Econ Systems	
ECN 420	International Trade	
ECN 421	Global Macroeconomic Analysis	
ECN 460	Economic of Dev Countries	
FIN 440	International Fin Management	
MGT 445	International Management	
MKT 371	International Marketing	
Major-Specific		
MIS 300	Intro to Business Programming	3
MIS 310	Bus Sys Analysis & Design	3
MIS 333	Bus Telecomm Sys	3
MIS 340	Intro to Database Mgt Systems	3
MIS 360	Intro to Bus Intel & Analytics	3
MIS 420	Info Security Management	3
MIS 470	Business Sys Proj Mgt	3
MIS 475	Strat Management Info Systems	3
Free Elective		3
Free Elective		3
Free Elective		3
Free Elective		3
Free Elective		3
Free Elective		3
Free Elective		3

Major Information

- The total number of free electives required depends on the number of hours completed in STA 150 Foundations of Statistics or STA 150B Foundations of Stats-Expanded and ENG 101 Beginning Composition or ENG 101P Beginning Composition Plus and the number of hours that can be double-counted toward multiple degree requirements.
- MIS 475 Strat Management Info Systems is the capstone course for all Management Info Systems majors. It is normally taken in the senior year.

- Multicultural or International additional university requirement met with International Business Elective.
- Please check with advisor about course offerings. Not all classes will be offered every semester.

- General Education Course

- Milestone course: a key success marker for your major. See your advisor to discuss the importance of this course in your plan of study.

Four Year Plan

The Department of Marketing, MIS and Entrepreneurship offers a Bachelor of Business Administration (BBA) degree in Management Information Systems (MIS). MIS is the study of the relationships among people, technology, and organizations. MIS professionals help firms realize maximum benefits from investment in personnel, equipment, and business processes. MIS is a people-oriented field with an emphasis on service through technology. You will learn to create information systems for data management (i.e. storing, searching, and analyzing data) and how to manage various information systems to meet the needs of managers, staff, and customers.

Course	Title	Credit Hours
First Year		
First Semester		
FYS 100	First Yr Sem Critical Thinking	3
ENG 101	Beginning Composition	3
STA 150	Foundations of Statistics	3
STA 150L	Foundations of Statistics Lab	1
PSY 201	Introductory Psychology (CT)	3
MIS 200	Bus Computer Applications	3
UNI 100	Freshman First Class	1
	Credit Hours	**17**
Second Semester		
ECN 250	Principles Microeconomics	3
CMM 207	Bus & Prof Communication	3
Core II Physical or Natural Science		4
Core II Fine Arts		3
Free Elective		3
	Credit Hours	**16**
Second Year		
First Semester		
ACC 215	Accounting Principles (CT)	3
ECN 253	Principles Macroeconomics	3
ENG 201	Advanced Composition	3
LE 207	Legal Environ of Business	3
CMM Studies Elective		3
	Credit Hours	**15**
Second Semester		
ACC 216	Principles of Accounting	3
MGT 218	Business Quantitative Methods	3
ENG 204	Writing for the Workplace	3
Core II Humanities		3
Free Elective		3
	Credit Hours	**15**
Third Year		
First Semester		
FIN 323	Principles of Finance	3
MGT 320	Principles of Management	3
MKT 340	MKT Concepts and Applications	3
MIS 290	Prin Management Info Systems	3
Free Elective		3
	Credit Hours	**15**
Second Semester		
MIS 310	Bus Sys Analysis & Design	3
MIS 333	Bus Telecomm Sys	3
MIS 360	Intro to Bus Intel & Analytics	3
Free Elective		3
Free Elective		3
	Credit Hours	**15**
Fourth Year		
First Semester		
MIS 340	Intro to Database Mgt Systems	3
MIS 300	Intro to Business Programming	3
MIS 470	Business Sys Proj Mgt	3
Free Elective		3
Free Elective		3
	Credit Hours	**15**
Second Semester		
MIS 420	Info Security Management	3
MIS 475	Strat Management Info Systems	3
MGT 460	Strategic Management	3
International Business Elective		3
	Credit Hours	**12**
	Total Credit Hours	**120**

Management Information Systems, Minor

A minimum of 12 credit hours to include:

Code	Title	Credit Hours
MIS 290	Prin Management Info Systems	3
MIS 340	Intro to Database Mgt Systems	3
Select six credit hours from among the 300/400 level MIS courses [1]		6
Total Credit Hours		**12**

[1] Excluding MIS 475 Strat Management Info Systems

Marketing, B.B.A.

- General Education Course

- Milestone course: a key success marker for your major. See your advisor to discuss the importance of this course in your plan of study.

Major

The Core Curriculum is designed to foster critical thinking skills and introduce students to basic domains of thinking that transcend disciplines. The Core applies to all majors. Information on specific classes in the Core can be found at https://www.marshall.edu/gened/.

Code	Title	Credit Hours
Core Curriculum		
Core 1: Critical Thinking		
FYS 100	First Yr Sem Critical Thinking	3
PSY 201	Introductory Psychology (CT)	3
ACC 215	Accounting Principles (CT)	3
Core 2		
ENG 101	Beginning Composition	3
ENG 201	Advanced Composition	3
CMM 207	Bus & Prof Communication	3
STA 150	Foundations of Statistics	3
STA 150L	Foundations of Statistics Lab	1
Core II Natural/Physical Science		4
Core II Humanities		3
PSY 201	Introductory Psychology (CT)	3
Core II Fine Arts		3
Additional University Requirements		
ENG 204	Writing for the Workplace (Writing Intensive)	3
MGT 460	Strategic Management (Writing Intensive)	3
MKT 371	International Marketing (Multicultural or International)	3
MKT 465	Strategic Marketing (Capstone)	3
College-Specific		
ENG 204	Writing for the Workplace	3
ACC 215	Accounting Principles (CT)	3
ACC 216	Principles of Accounting	3
ECN 250	Principles Microeconomics	3
ECN 253	Principles Macroeconomics	3
FIN 323	Principles of Finance	3
LE 207	Legal Environ of Business	3
MIS 200	Bus Computer Applications	3
MIS 290	Prin Management Info Systems	3
MGT 218	Business Quantitative Methods	3
MGT 320	Principles of Management	3
MGT 460	Strategic Management	3
MKT 340	MKT Concepts and Applications	3
Communication Studies Elective:		3
Select one of the following:		3
CMM 302	Professional Presentations	
CMM 308	Persuasive Communication	
CMM 315	Group Communication	
CMM 319	Superior-Subordinate Comm	
CMM 322	Intercultural Communication	
Major-Specific		
MKT 231	Principles of Selling	3
MKT 341	Integrated MKT Communications	3
MKT 437	Consumer Behavior	3
MKT 442	Market Research	3
MKT 465	Strategic Marketing	3
MKT 371	International Marketing	3
Students may choose to take elective credit in the major or an emphasis in Digital Marketing and Analytics or Sales.		
MKT Elective [1]		3
MKT Elective [1]		3
MKT Elective [1]		3
MKT Elective [1]		3
Free Elective		3
Free Elective		3
Free Elective		3
Free Elective		3
Free Elective		3
Free Elective		3

[1] Marketing Electives - MKT Electives can be any 300 or 400 level MKT courses not already required (except MKT 490 Internship), MGT 420 Operations Management, MGT 428 Negotiations, or ENT 360 Intro to Entrepreneurship. MKT 231 Principles of Selling and MKT 371 International Marketing may not count towards a MKT elective.

Major Information

- The total number of free electives required depends on the number of hours completed in STA 150 Foundations of Statistics or STA 150B Foundations of Stats-Expanded and ENG 101 Beginning Composition or ENG 101P Beginning Composition Plus and the number of hours that can be double-counted toward multiple degree requirements.
- MKT 465 Strategic Marketing is the capstone course for all Marketing majors. It is normally taken in the senior year.
- MKT 371 International Marketing must be taken to meet the International Business requirement.
- The Multicultural or International additional university requirement is met with International Business Elective.
- Please check with advisor about course offerings. Not all classes will be offered every semester.

Areas of Emphasis

- Digital Marketing and Analytics, Emphasis (p. 233)
- Sales, Emphasis (p. 235)

- General Education Course

- Milestone course: a key success marker for your major. See your advisor to discuss the importance of this course in your plan of study.

Four Year Plan

The Department of Marketing, MIS and Entrepreneurship offers a Bachelor of Business Administration (BBA) degree in Marketing. Professionals that work in marketing aim to get and keep customers by determining and satisfying customer needs and wants in a diverse market. This is done by making sure the company has the right products and/or services and that these are correctly promoted,

distributed, and priced. In the marketing program, you will learn how to be effective at personal selling, promotion development and execution, event coordination, customer experience design, supply chain management, analytics, market research, social media, digital marketing, and strategic planning. Marketing majors can choose to have an area of emphasis in Digital Marketing and Analytics or Sales.

Course	Title	Credit Hours
First Year		
First Semester		
FYS 100	First Yr Sem Critical Thinking	3
ENG 101	Beginning Composition	3
STA 150	Foundations of Statistics	3
STA 150L	Foundations of Statistics Lab	1
PSY 201	Introductory Psychology (CT)	3
MIS 200	Bus Computer Applications	3
UNI 100	Freshman First Class	1
	Credit Hours	**17**
Second Semester		
ECN 250	Principles Microeconomics	3
CMM 207	Bus & Prof Communication	3
Core II Physical or Natural Science		4
Core II Fine Arts		3
Free Elective		3
	Credit Hours	**16**
Second Year		
First Semester		
ACC 215	Accounting Principles (CT)	3
ECN 253	Principles Macroeconomics	3
ENG 201	Advanced Composition	3
LE 207	Legal Environ of Business	3
CMM Studies Elective		3
	Credit Hours	**15**
Second Semester		
ACC 216	Principles of Accounting	3
MGT 218	Business Quantitative Methods	3
ENG 204	Writing for the Workplace	3
Free Elective		3
Core II Humanities		3
	Credit Hours	**15**
Third Year		
First Semester		
MKT 340	MKT Concepts and Applications	3
MKT 231	Principles of Selling	3
MGT 320	Principles of Management	3
FIN 323	Principles of Finance	3
MIS 290	Prin Management Info Systems	3
	Credit Hours	**15**
Second Semester		
MKT 341	Integrated MKT Communications	3
MKT 371	International Marketing	3
MKT Elective		3
MKT Elective		3
Free Elective		3
	Credit Hours	**15**
Fourth Year		
First Semester		
MKT 437	Consumer Behavior	3
MKT 442	Market Research	3
MKT Elective		3
MKT Elective		3
Free Elective		3
	Credit Hours	**15**
Second Semester		
MKT 465	Strategic Marketing	3
MGT 460	Strategic Management	3
Free Elective		3
Free Elective		3
	Credit Hours	**12**
	Total Credit Hours	**120**

Digital Marketing and Analytics, Emphasis

- General Education Course

- Milestone course: a key success marker for your major. See your advisor to discuss the importance of this course in your plan of study.

Major

The Core Curriculum is designed to foster critical thinking skills and introduce students to basic domains of thinking that transcend disciplines. The Core applies to all majors. Information on specific classes in the Core can be found at https://www.marshall.edu/gened/.

Code	Title	Credit Hours
Core Curriculum		
Core 1: Critical Thinking		
FYS 100	First Yr Sem Critical Thinking	3
PSY 201	Introductory Psychology (CT)	3
ACC 215	Accounting Principles (CT)	3
Core 2		
ENG 101	Beginning Composition	3
ENG 201	Advanced Composition	3
CMM 207	Bus & Prof Communication	3
STA 150	Foundations of Statistics	3
STA 150L	Foundations of Statistics Lab	1
Core II Natural/Physical Science		4
Core II Humanities		3
PSY 201	Introductory Psychology (CT)	3
Core II Fine Arts		3
Additional University Requirements		
ENG 204	Writing for the Workplace (Writing Intensive)	3
MGT 460	Strategic Management (Writing Intensive)	3

MKT 371	International Marketing (MC or I: International Business Elective)	3
MKT 465	Strategic Marketing (Capstone)	3
College-Specific		
ENG 204	Writing for the Workplace	3
ACC 215	Accounting Principles (CT)	3
ACC 216	Principles of Accounting	3
ECN 250	Principles Microeconomics	3
ECN 253	Principles Macroeconomics	3
FIN 323	Principles of Finance	3
LE 207	Legal Environ of Business	3
MIS 200	Bus Computer Applications	3
MIS 290	Prin Management Info Systems	3
MGT 218	Business Quantitative Methods	3
MGT 320	Principles of Management	3
MGT 460	Strategic Management	3
MKT 340	MKT Concepts and Applications	3
Communications Studies Elective:		
Select one of the following:		3
CMM 302	Professional Presentations	
CMM 308	Persuasive Communication	
CMM 315	Group Communication	
CMM 319	Superior-Subordinate Comm	
CMM 322	Intercultural Communication	
Major-Specific and Area of Emphasis		
MKT 231	Principles of Selling	3
MKT 341	Integrated MKT Communications	3
MKT 371	International Marketing	3
MKT 437	Consumer Behavior	3
MKT 442	Market Research	3
MKT 400	Social Media Marketing	3
MKT 435	Internet Marketing	3
MKT 465	Strategic Marketing	3
MKT 425	Marketing Analytics	3
Digital MKT & Analytics Elective:		
Select one of the following:		3
MKT 430	Digital Marketing	
MKT 344	Retail Management	
JMC 241	Media Design	
JMC 383	Content Creation	
MIS 300	Intro to Business Programming	
MIS 340	Intro to Database Mgt Systems	
MIS 360	Intro to Bus Intel & Analytics	
Free Elective		3
Free Elective		3
Free Elective		3
Free Elective		3
Free Elective		3
Free Elective		3

Major Information

- The total number of free electives required depends on the number of hours completed in STA 150 Foundations of Statistics or STA 150B Foundations of Stats-Expanded and ENG 101 Beginning Composition or ENG 101P Beginning Composition Plus and the number of hours that can be double-counted toward multiple degree requirements
- MKT 465 Strategic Marketing is the capstone course for all Marketing majors. It is normally taken in the senior year.
- Multicultural or International additional university requirement met with International Business Elective.
- MKT 371 International Marketing must be taken to meet the International Business requirement.
- Please check with advisor about course offerings. Not all classes will be offered every semester.

- General Education Course

- Milestone course: a key success marker for your major. See your advisor to discuss the importance of this course in your plan of study.

Four Year Plan

The Department of Marketing, MIS and Entrepreneurship offers a Bachelor of Business Administration (BBA) degree in Marketing. Professionals who work in marketing aim to get and keep customers by determining and satisfying customer needs and wants in a diverse market. This is done by making sure the company has the right products and/or services and that these are correctly promoted, distributed, and priced. In the marketing program, you will learn how to be effective at personal selling, promotion development and execution, event coordination, customer experience design, supply chain management, analytics, market research, social media, digital marketing, and strategic planning. Marketing majors can choose to have an area of emphasis in Digital Marketing and Analytics or Sales.

Course	Title	Credit Hours
First Year		
First Semester		
FYS 100	First Yr Sem Critical Thinking	3
ENG 101	Beginning Composition	3
STA 150	Foundations of Statistics	3
STA 150L	Foundations of Statistics Lab	1
PSY 201	Introductory Psychology (CT)	3
MIS 200	Bus Computer Applications	3
UNI 100	Freshman First Class	1
	Credit Hours	**17**
Second Semester		
Free Elective		3
ECN 250	Principles Microeconomics	3
CMM 207	Bus & Prof Communication	3
Core II Physical or Natural Science		4
Core II Fine Arts		3
	Credit Hours	**16**

Second Year		
First Semester		
ACC 215	Accounting Principles (CT)	3
ECN 253	Principles Macroeconomics	3
ENG 201	Advanced Composition	3
LE 207	Legal Environ of Business	3
CMM Studies Elective		3
	Credit Hours	**15**
Second Semester		
ACC 216	Principles of Accounting	3
MGT 218	Business Quantitative Methods	3
ENG 204	Writing for the Workplace (WI)	3
Free Elective		3
Core II Humanities		3
	Credit Hours	**15**
Third Year		
First Semester		
MKT 340	MKT Concepts and Applications	3
MKT 231	Principles of Selling	3
MGT 320	Principles of Management	3
FIN 323	Principles of Finance	3
MIS 290	Prin Management Info Systems	3
	Credit Hours	**15**
Second Semester		
MKT 341	Integrated MKT Communications	3
MKT 437	Consumer Behavior	3
Digital MKT & Analytics Elective		3
Free Elective		3
Free Elective		3
	Credit Hours	**15**
Fourth Year		
First Semester		
MKT 442	Market Research	3
MKT 400	Social Media Marketing	3
MKT 435	Internet Marketing	3
MKT 425	Marketing Analytics	3
Free Elective		3
	Credit Hours	**15**
Second Semester		
MKT 465	Strategic Marketing (C)	3
MGT 460	Strategic Management (WI)	3
MKT 371	International Marketing	3
Free Elective		3
	Credit Hours	**12**
	Total Credit Hours	**120**

Sales, Emphasis

- General Education Course

- Milestone course: a key success marker for your major. See your advisor to discuss the importance of this course in your plan of study.

Major

The Core Curriculum is designed to foster critical thinking skills and introduce students to basic domains of thinking that transcend disciplines. The Core applies to all majors. Information on specific classes in the Core can be found at https://www.marshall.edu/gened/.

Code	Title	Credit Hours
Core Curriculum		
Core 1: Critical Thinking		
FYS 100	First Yr Sem Critical Thinking	3
PSY 201	Introductory Psychology (CT)	3
ACC 215	Accounting Principles (CT)	3
Core 2		
ENG 101	Beginning Composition	3
ENG 201	Advanced Composition	3
CMM 207	Bus & Prof Communication	3
STA 150	Foundations of Statistics	3
STA 150L	Foundations of Statistics Lab	1
Core II Natural/Physical Science		4
Core II Humanities		3
PSY 201	Introductory Psychology (CT)	3
Core II Fine Arts		3
Additional University Requirements		
ENG 204	Writing for the Workplace (Writing Intensive)	3
MGT 460	Strategic Management (Writing Intensive)	3
MKT 371	International Marketing (MC or I: International Business Elective)	3
MKT 465	Strategic Marketing (Capstone)	3
College-Specific		
ENG 204	Writing for the Workplace	3
ACC 215	Accounting Principles (CT)	3
ACC 216	Principles of Accounting (CT)	3
ECN 250	Principles Microeconomics	3
ECN 253	Principles Macroeconomics	3
FIN 323	Principles of Finance	3
LE 207	Legal Environ of Business	3
MIS 200	Bus Computer Applications	3
MIS 290	Prin Management Info Systems	3
MGT 218	Business Quantitative Methods	3
MGT 320	Principles of Management	3
MGT 460	Strategic Management	3
MKT 340	MKT Concepts and Applications	3
Communication Studies Elective:		
Select one of the following:		3
CMM 302	Professional Presentations	
CMM 308	Persuasive Communication	
CMM 315	Group Communication	
CMM 319	Superior-Subordinate Comm	
CMM 322	Intercultural Communication	
Major-Specific		
MKT 231	Principles of Selling	3

MKT 341	Integrated MKT Communications	3
MKT 437	Consumer Behavior	3
MKT 371	International Marketing	3
MKT 375	Business to Business Marketing	3
MKT 440	Sales Management	3
MKT 442	Market Research	3
MKT 465	Strategic Marketing	3
Sales Electives:		
Select two of the following:		6
MKT 445	Services Marketing	
MGT 428	Negotiations	
JMC 390	Media Sales & Underwriting	
CMM 302	Professional Presentations [1]	
CMM 308	Persuasive Communication [1]	
Free Elective		3
Free Elective		3
Free Elective		3
Free Elective		3
Free Elective		3
Free Elective		3

[1] CMM 302 and CMM 308 may not count as both the CMM elective and a Sales elective.

Major Information

- The total number of free electives required depends on the number of hours completed in STA 150 Foundations of Statistics or STA 150B Foundations of Stats-Expanded and ENG 101 Beginning Composition or ENG 101P Beginning Composition Plus and the number of hours that can be double-counted toward multiple degree requirements.
- MKT 465 Strategic Marketing is the capstone course for all Marketing majors. It is normally taken in the senior year.
- Multicultural or International additional university requirement met with International Business Elective.
- MKT 371 International Marketing must be taken to meet the International Business requirement.
- Please check with advisor about course offerings. Not all classes will be offered every semester

- General Education Course

- Milestone course: a key success marker for your major. See your advisor to discuss the importance of this course in your plan of study.

Four Year Plan

The Department of Marketing, MIS and Entrepreneurship offers a Bachelor of Business Administration (BBA) degree in Marketing. Professionals that work in marketing aim to get and keep customers by determining and satisfying customer needs and wants in a diverse market. This is done by making sure the company has the right products and/or services and that these are correctly promoted, distributed, and priced. In the marketing program, you will learn how to be effective at personal selling, promotion development and execution, event coordination, customer experience design, supply chain management, analytics, market research, social media, digital marketing, and strategic planning. Marketing majors can choose to have an area of emphasis in Digital Marketing and Analytics or Sales.

Course	Title	Credit Hours
First Year		
First Semester		
FYS 100	First Yr Sem Critical Thinking	3
ENG 101	Beginning Composition	3
STA 150	Foundations of Statistics	3
STA 150L	Foundations of Statistics Lab	1
PSY 201	Introductory Psychology (CT)	3
MIS 200	Bus Computer Applications	3
UNI 100	Freshman First Class	1
	Credit Hours	**17**
Second Semester		
Free Elective		3
ECN 250	Principles Microeconomics	3
CMM 207	Bus & Prof Communication	3
Core II Physical or Natural Science		4
Core II Fine Arts		3
	Credit Hours	**16**
Second Year		
First Semester		
ACC 215	Accounting Principles (CT)	3
ECN 253	Principles Macroeconomics	3
ENG 201	Advanced Composition	3
LE 207	Legal Environ of Business	3
CMM Studies Elective		3
	Credit Hours	**15**
Second Semester		
ACC 216	Principles of Accounting	3
MGT 218	Business Quantitative Methods	3
ENG 204	Writing for the Workplace	3
Free Elective		3
Core II Humanities		3
	Credit Hours	**15**
Third Year		
First Semester		
MKT 340	MKT Concepts and Applications	3
MKT 231	Principles of Selling	3
MGT 320	Principles of Management	3
FIN 323	Principles of Finance	3
MIS 290	Prin Management Info Systems	3
	Credit Hours	**15**
Second Semester		
MKT 341	Integrated MKT Communications	3
MKT 437	Consumer Behavior	3
MKT 375	Business to Business Marketing	3
Sales Elective		3
Free Elective		3
	Credit Hours	**15**

Fourth Year		
First Semester		
MKT 442	Market Research	3
MKT 440	Sales Management	3
Sales Elective		3
Free Elective		3
Free Elective		3
	Credit Hours	**15**
Second Semester		
MKT 465	Strategic Marketing	3
MGT 460	Strategic Management	3
MKT 371	International Marketing	3
Free Elective		3
	Credit Hours	**12**
	Total Credit Hours	**120**

Marketing, Minor

A minimum of 12 credit hours, to include:

Code	Title	Credit Hours
MKT 340	MKT Concepts and Applications	3
Select nine credit hours of Marketing		9
Total Credit Hours		**12**

Sports Business, B.B.A.

- General Education Course

- Milestone course: a key success marker for your major. See your advisor to discuss the importance of this course in your plan of study.

Major

The Core Curriculum is designed to foster critical thinking skills and introduce students to basic domains of thinking that transcend disciplines. The Core applies to all majors. Information on specific classes in the Core can be found at https://www.marshall.edu/gened/.

Code	Title	Credit Hours
Core Curriculum		
Core 1: Critical Thinking		
FYS 100	First Yr Sem Critical Thinking	3
PSY 201	Introductory Psychology (CT)	3
ACC 215	Accounting Principles (CT)	3
Core 2		
ENG 101	Beginning Composition	3
ENG 201	Advanced Composition	3
CMM 207	Bus & Prof Communication	3
STA 150	Foundations of Statistics	3
STA 150L	Foundations of Statistics Lab	1
Core II Natural/Physical Science		4
Core II Humanities		3
PSY 201	Introductory Psychology (CT)	3
Core II Fine Arts		3
Additional University Requirements		
ENG 204	Writing for the Workplace (Writing Intensive)	3
MGT 460	Strategic Management (Writing Intensive)	3
STHM 496	Olympic Games (Multicultural or International)	3
STHM 475	Capstone Seminar	3
College-Specific		
ENG 204	Writing for the Workplace	3
ACC 215	Accounting Principles (CT)	3
ACC 216	Principles of Accounting	3
ECN 250	Principles Microeconomics	3
ECN 253	Principles Macroeconomics	3
FIN 323	Principles of Finance	3
LE 207	Legal Environ of Business	3
MIS 200	Bus Computer Applications	3
MIS 290	Prin Management Info Systems	3
MGT 218	Business Quantitative Methods	3
MGT 320	Principles of Management	3
MGT 460	Strategic Management	3
MKT 340	MKT Concepts and Applications	3
Communication Studies Elective:		
Select one of the following:		3
CMM 302	Professional Presentations	
CMM 308	Persuasive Communication	
CMM 315	Group Communication	
CMM 319	Superior-Subordinate Comm	
CMM 322	Intercultural Communication	
International Business Elective:		
STHM 496	Olympic Games	3
Major-Specific		
STHM 250	Intro to Sport Management	3
STHM 380	Sport Marketing	3
STHM 381	Financing Sports	3
STHM 390	Sport MGT Pre-Internship	3
or STHM 320	Sports & Campus Rec Mgmt	
STHM 416	Facility Design & Management	3
STHM 475	Capstone Seminar	3
Six credit hours of other STHM electives		6
Free Electives to reach 120 hours		25

Major Information

- Students must earn a minimum of 120 credit hours to graduate. If any courses are used to complete multiple degree requirements or the student is required to take STA 150B or ENG 101P, the student may need a different number of free electives than what is listed above to reach 120 credit hours.
- STHM electives can be any STHM classes not already required for the major. STHM 496, Olympic Games, may not count as an STHM elective.
- STHM 496, Olympic Games, must be taken to meet the International Business elective.

Sports Business, Minor

A minor in sports business consists of a minimum of 12 hours, to include the following:

Code	Title	Credit Hours
STHM 250	Intro to Sport Management	3
STHM 380	Sport Marketing	3
Other STHM courses		6

Department of Military Science

Scholarships and Allowances

Scholarships are available for two, three, or four years. Students enrolled in the Advanced Course receive a tax-free subsistence allowance each month. They also receive about $900 for attending a five-week Advanced Camp (between the junior and senior year). Total remuneration for the final two years is over $30,000. All uniforms and equipment are furnished at no cost to students.

Military Science Extracurricular Activities

In addition to ROTC classes, the Military Science Department offers unique opportunities in various activities. These activities are designed to create new and lasting friendships as well as to develop leadership skills. The extracurricular activities are: the Color Guard, Intramural Sports, and Ranger Challenge Team (the varsity sport of Cadet Command).

For further information, contact the Military Science Department, Room 217, Gullickson Hall, or call 304-696-6450.

Summer Training Opportunities

In addition to the Leaders Training Course and the Leader Development and Assessment Course, ROTC offers other training opportunities to broaden experience and leadership. These include the Basic Airborne Course, Air Assault Course, Mountain Warfare, Northern Warfare, United Kingdom Officer Training Course, Cadet Troop Leadership Training, Drill Cadet Leadership Training, Army Science Board, Cadet Intern Program, Nurse Summer Training Program, JFK Special Warfare Internship Program and Cultural Leadership Program. Some of these programs are conducted outside of the continental United States and with foreign countries. All programs are competitive and require the approval of the Professor of Military Science. Some cadets may also elect to train with a local Army Reserve or National Guard unit, each with additional training opportunities and benefits.

Ranger Challenge

This Cadet Command Varsity Sport challenges students to become better leaders and hone such Army skills as marksmanship, land navigation/orienteering, rope bridge, hand grenades, patrolling, physical fitness, and ruck marching. Winning teams will have the opportunity to compete at the prestigious Sandhurst Competition at West Point Military Academy.

Programs

- Military Science and Leadership, Minor (p. 238)
- U.S. Army Reserve Officers' Training Corps (p. 238)

Military Science and Leadership, Minor

Code	Title	Credit Hours
Select a minimum of 16 credit hours in Military Science		16
Select 3 credit hours in History as approved by the professor of Military Science		3
Completion of the Summer training program Leadership Development and Assessment Course at Fort Lewis, WA		
Total Credit Hours		**19**

All Military Science courses are 300/400 level.

Code	Title	Credit Hours
MS 301 & MS 301L	Leadership and Prob Solving and Adv Course Lead Lab III	4
MS 302 & MS 302L	Leadership and Ethics and Adv Course Lead Lab III	4
MS 401 & MS 401L	Leadership and Management and Adv Course Lead Lab IV	4
MS 402 & MS 402L	Officership and Adv Course Lead Lab IV	4

Completion of minor is with approval of the Professor of Military Science.

U.S. Army Reserve Officers' Training Corps

The Marshall University Reserve Officer Training Corps (ROTC) program, established at Marshall in September 1951, is open to both men and women. The objective of this program is to produce creative and adaptable leaders of character capable of service as commissioned officers in the U.S Army's active and reserve forces. It provides a basic military education that, in conjunction with other college disciplines, develops the attributes essential for successful executive performance. Individuals who successfully complete all of the training may be commissioned in the United States Army, the United States Army Reserve or the National Guard upon graduation from the university.

Two-Year Program

Students who have not taken the first two years of Military Science may gain credit by attending the Cadet Initial Entry Training (CIET) course (MS 251) at Fort Knox, Kentucky. Students are awarded six credit hours for this camp and are paid approximately $900 for attending the four week camp. The Cadet Initial Entry Training (CIET) is the premier leadership program of its kind in the United States. An intense four-week introduction to Army life and leadership training of the Reserve Officers' Training Corps, the aim of the course is to motivate and qualify cadets for entry into the Senior ROTC program. Students interested in the two-year program should contact the

military science department. Also, qualified veterans and students who have had junior ROTC in high school may be awarded credit for the first two years of ROTC.

Eligibility

To be eligible for enrollment in ROTC, an applicant must be a regularly enrolled full-time student capable of participating in a normal college physical education program. To progress to the Advanced Course, students must meet several requirements, including age, physical condition, and moral standards; have a 2.0 overall Grade Point Average, and be entering their junior year of college. Members of the Army Reserve and National Guard may enroll in Military Science classes and receive a commission.

Major

Curriculum

The ROTC Program is divided into two parts - the Basic Course and the Advanced Course. The Basic Course (MS I and MS II) consists of 100- and 200-level Military Science classes and is designed primarily for freshman and sophomore students. Students do not incur any military obligation for participating in the Basic Course. The Advanced Course (MS III and MS IV) consists of 300- and 400-level Military Science classes and is reserved for junior, senior and graduate students. The Advanced Course enrollment requires approval of the Professor of Military Science. Upon contracting, students incur a military obligation and begin receiving a monthly stipend of $300 to $500 (depending on MS level) in addition to any scholarship benefits.

The Military Science curriculum can be taken in conjunction with any of the four-year university degree programs and may be applied toward graduation requirements as electives. Additionally, Advanced Course completion is a recognized academic minor in Military Science and Leadership. Students who attain a high standard of academic and military achievement will be given the opportunity to accept an active duty commission with beginning salary of over $65,000 per year.

General Business, B.A.

The Lewis College of Business, Brad D. Smith Undergraduate School of Business offers a Bachelor of Arts degree in General Business. This degree is delivered 100% online. This means students can complete the whole degree without coming to campus and without having to meet at designated times to complete lessons. The program is flexible and convenient. All class are Quality Matters approved, meaning they are developed with the utmost quality and care to deliver the best education possible.

The Online B.A. in General Business degree does not require you to choose a major. The “major” comes from 24 hours of any combination of upper level LCOB classes. For example, you can take classes in management, marketing, accounting, economics and finance to create your major. This will provide broad business knowledge that you can use in a variety of careers.

The focus of the Online B.A. in General Business is on degree completion. The LCOB developed this degree because only half of college students complete a degree in six years. This program is geared toward nontraditional students, including adult learners who started a business degree but never finished it, or students who cannot otherwise attend face-to-face classes.

- General Education Course

- Milestone course: a key success marker for your major. See your advisor to discuss the importance of this course in your plan of study.

Major

The Core Curriculum is designed to foster critical thinking skills and introduce students to basic domains of thinking that transcend disciplines. The Core applies to all majors. Information on specific classes in the Core can be found at https://www.marshall.edu/gened/.

Code	Title	Credit Hours
Core Curriculum		
Core 1: Critical Thinking		
FYS 100	First Yr Sem Critical Thinking	3
PSY 201	Introductory Psychology (CT)	3
ACC 215	Accounting Principles (CT)	3
Core 2		
ENG 101	Beginning Composition	3
ENG 201	Advanced Composition	3
CMM 207	Bus & Prof Communication	3
STA 150	Foundations of Statistics	3
STA 150L	Foundations of Statistics Lab	1
Core II Natural/Physical Science		4
Core II Humanities		3
PSY 201	Introductory Psychology (CT)	3
Core II Fine Arts		3
Additional University Requirements		
ENG 204	Writing for the Workplace (Writing Intensive)	3
MGT 460	Strategic Management (Writing Intensive) (capstone)	3
International Business Elective (Multicultural or International)		3
College-Specific		
ENG 204	Writing for the Workplace	3
ACC 215	Accounting Principles (CT)	3
ACC 216	Principles of Accounting	3
ECN 250	Principles Microeconomics	3
ECN 253	Principles Macroeconomics	3
FIN 323	Principles of Finance	3
LE 207	Legal Environ of Business	3
MIS 200	Bus Computer Applications	3
MIS 290	Prin Management Info Systems	3
MGT 218	Business Quantitative Methods	3
MGT 320	Principles of Management	3
MGT 460	Strategic Management (Capstone) (Writing Intensive)	3
MKT 340	MKT Concepts and Applications	3
Communications Studies Elective:		
Select one of the following:		3
CMM 302	Professional Presentations	
CMM 308	Persuasive Communication	
CMM 315	Group Communication	

CMM 319	Superior-Subordinate Comm	
CMM 322	Intercultural Communication	
International Business Elective:		3
Select one of the following:		
ECN 408	Comparative Econ Systems	
ECN 420	International Trade	
ECN 421	Global Macroeconomic Analysis	
ECN 460	Economic of Dev Countries	
FIN 440	International Fin Management	
MGT 445	International Management	
MKT 371	International Marketing	
General Business Electives		**24**
Free Electives to reach 120 hours		**22**

- The total number of free electives required depends on the number of hours completed in STA (150 or 150B) and ENG (101 or 101P) and the number of hours that can be double-counted toward multiple degree requirements.
- General Business Electives can be any 300 or 400 level courses offered in the College of Business (under the following course designators: ACC, ECN, ENT, FIN, LE, MGT, MIS, MKT, STHM). Students must complete courses in at least two separate alpha designators. Internship credit may not count as a General Business Elective. In order to meet the College of Business graduation requirement of 12 hours of 400-level courses completed in the College of Business at Marshall, nine (9) hours of General Business Electives should be 400 level.
- MGT 460 is the capstone course for all Management majors. It can only be taken during the senior year after all prerequisites are met.
- The Communication Studies Elective can be met by taking one of the following courses: CMM 302, 308, 315, 319, or 322.
- The International Business Elective can be met by taking one of the following courses: ECN 408, 420, 421, 460, FIN 440, MGT 445, or MKT 371. The course selected for the International Business Elective CANNOT double-count as a General Business Elective.
- Students who have a declared major in a B.B.A. program cannot also declare the General Business B.A.
- Please check with advisor about course offerings. Not all classes will be offered every semester.

- General Education Course

- Milestone course: a key success marker for your major. See your advisor to discuss the importance of this course in your plan of study.

Course	Title	Credit Hours
First Year		
First Semester		
FYS 100	First Yr Sem Critical Thinking	3
ENG 101	Beginning Composition	3
STA 225	Introductory Statistics (CT)	3
PSY 201	Introductory Psychology (CT)	3
CMM 207	Bus & Prof Communication	3
	Credit Hours	**15**
Second Semester		
Critical Thinking [1]		3
ECN 250	Principles Microeconomics	3
MIS 200	Bus Computer Applications	3
LE 207	Legal Environ of Business	3
Core II Fine Arts [1]		3
	Credit Hours	**15**
Second Year		
First Semester		
ACC 215	Accounting Principles (CT)	3
ECN 253	Principles Macroeconomics	3
ENG 201	Advanced Composition (grade of "C" or better)	3
Core II Physical or Natural Science [1]		4
CMM Studies Elective [2]		3
	Credit Hours	**16**
Second Semester		
ACC 216	Principles of Accounting [1]	3
MGT 218	Business Quantitative Methods	3
ENG 204	Writing for the Workplace	3
Critical Thinking [1]		3
Core II Humanities [1]		3
	Credit Hours	**15**
Third Year		
First Semester		
FIN 323	Principles of Finance	3
MGT 320	Principles of Management	3
MKT 340	MKT Concepts and Applications	3
MIS 290	Prin Management Info Systems	3
Free Elective		3
	Credit Hours	**15**
Second Semester		
General Business Elective [3]		3
General Business Elective [3]		3
General Business Elective [3]		3
General Business Elective [3]		3
Free Elective		3
	Credit Hours	**15**
Fourth Year		
First Semester		
General Business Elective [3]		3
General Business Elective (400 Level) [3]		3
International Business Elective [4]		3
Free Elective		3
Free Elective		3
	Credit Hours	**15**
Second Semester		
MGT 460	Strategic Management [5]	3
General Business Elective (400 Level) [3]		3
General Business Elective (400 Level) [3]		3
Free Elective		3

Free Elective		2
	Credit Hours	**14**
	Total Credit Hours	**120**

1 For options to satisfy the Core curriculum requirement, please visit https://www.marshall.edu/gened/introducing-the-core-curriculum (https://www.marshall.edu/gened/introducing-the-core-curriculum/).
2 The Communication Studies Elective can be met by taking one of the following courses: CMM 302, 308, 315, 319, or 322.
3 General Business electives can be any 300 or 400 level courses offered in the College of Business (under the following course designators: ACC, ECN, ENT, FIN, LE, MGT, MIS, MKT, STHM). Students must complete courses in at least two separate alpha designators. Internship credit may not count as a General Business Elective. In order to meet the College of Business graduation requirement of 12 hours of 400-level courses completed in the College of Business at Marshall, nine (9) hours of General Business Electives should be 400 level.
4 The International Business Elective can be met by taking one of the following courses: ECN 408, 420, 421, 460, FIN 440, MGT 445, or MKT 371. The course selected for the International Business Elective CANNOT double-count as a General Business Elective.
5 This is the capstone course for all Management majors. It can only be taken during the senior year after all prerequisites are met.

NOTE: Students who have a declared major in a B.B.A. program cannot also declare the General Business B.A.

General Business, Minor

General Business, Minor

Code	Title	Credit Hours
ACC 215	Accounting Principles (CT)	3
or ACC 310	Acct for Entrepreneurs	
ECN 200	Survey of Economics	3
or ECN 250	Principles Microeconomics	
MGT 320	Principles of Management	3
MKT 340	MKT Concepts and Applications	3
Select one of the following:		3
FIN 323	Principles of Finance	
ENT 360	Intro to Entrepreneurship	
LE 207	Legal Environ of Business	
MIS 290	Prin Management Info Systems	
MGT 422	Organizational Behavior	
MKT 231	Principles of Selling	
Total Credit Hours		**15**

Business majors may not declare a minor in General Business. Business students transferring to a major outside of the College of Business can declare the minor after they change out of business. Student must meet the prerequisites for the individual courses, as listed in the catalog, even if the prerequisite course does not count towards the minor.

Department of Communication Studies

Contacts: Dr. Stephen Underhill, Chair;
Website: http://www.marshall.edu/commstu/

commstudies@marshall.edu

The Department of Communication Studies offers a variety of courses and major concentrations designed to provide current knowledge, cognitive abilities, and competencies in communication. The concentrations prepare graduates for various communication roles and functions in personal life, organizations, and society. The department's offerings are augmented by the Forensics and Debate program.

Programs

- Business Communication, Minor (p. 245)
- Communication Studies, B.A. (p. 245)
- Communication Studies, Minor (p. 251)

Courses

- General Education Course

CMM 103 Fund Speech-Communication **3 Credit hours**
A course designed to enhance the development of critical thinking skills and their application to verbal and nonverbal interaction in interpersonal and public communication contexts. A course designed to enhance the development of critical thinking skills and their application to verbal and non- verbal interaction in interpersonal and public communication contexts.
Attributes: Core II Communication Studies
Grade Mode: Normal Grading Mode

CMM 104H Honors in Speech Comm **3 Credit hours**
An accelerated course for selected freshmen and sophomores in fundamentals of communication, concepts and skills in verbal/nonverbal communication and listening. Not open to juniors and seniors. An accelerated course for selected freshmen and sophomores in fundamentals of communication, concepts and skills in verbal/nonverbal communication and listening. Not open to juniors and seniors.
Attributes: Core II Communication Studies
Grade Mode: Normal Grading Mode

CMM 201 Communication Foundations (CT) **3 Credit hours**
Develops essential skills in reading and critically analyzing scholarly texts, and in writing academic papers. Develops essential skills in reading and critically analyzing scholarly texts, and in writing academic papers.
Attributes: Critical Thinking
Grade Mode: Normal Grading Mode

CMM 205 The Rhetorical World (CT) **3 Credit hours**
An introduction to the study of rhetoric as a cultural force influencing human behavior and societies and as a critical approach to interpreting cultural artifacts. An introduction to the study of rhetoric as a cultural force influencing human behavior and societies and as a critical approach to interpreting cultural artifacts.
Attributes: Critical Thinking, Core II Humanities
Grade Mode: Normal Grading Mode

CMM 207 Bus & Prof Communication **3 Credit hours**
A study of the communication demands and skills relevant to the student's future role as a business or professional person. A study of the communication demands and skills relevant to the student's future role as a business or professional person.
Attributes: Core II Communication Studies
Grade Mode: Normal Grading Mode

CMM 213 Fund Interpersonal Com **3 Credit hours**
Introduction to principles and practices related to productive interpersonal communication. Emphasizes competence in using verbal and nonverbal message systems to promote effective communication in social and task relationships.
Attributes: Core II Social Sciences
Grade Mode: Normal Grading Mode

CMM 239 Dev & Appreciation of Film **3 Credit hours**
The historical development of the motion picture as an art form. Analysis of the technical, social, economic and cultural factors which have influenced the medium.
Attributes: Core II Humanities
Grade Mode: Normal Grading Mode

CMM 255 Intro Computer-Comm **3 Credit hours**
Use and implications of telecomputing for messaging, resource finding, and self-directed discovery lerning. Use and implications of telecomputing for messaging, re- source finding, and self-directed discovery lerning.
Attributes: Digital Humanities, Core II Social Sciences
Grade Mode: Normal Grading Mode

CMM 270 Intercollegiate Debate **1 Credit hour**
(PR: Permission of instructor). May be repeated 3 times for credit.
Grade Mode: Normal Grading Mode

CMM 271 Intercollegiate Debate **1 Credit hour**
(PR: Permission of instructor). May be repeated 3 times for credit.
Grade Mode: Normal Grading Mode

CMM 280 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

CMM 281 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

CMM 282 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

CMM 283 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

CMM 298 Itv **1-4 Credit hours**
A course based upon Instructional Television Series broadcast by public television. The student is repsonsible for viewing the series on the air and satisfying all course requirements announced by the department. A course based upon Instructional Television Series broad- cast by public television. The student is repsonsible for viewing the series on the air and satisfying all course re- quirements announced by the department.
Grade Mode: Normal Grading Mode

CMM 302 Professional Presentations **3 Credit hours**
Designed for present and future demands on skilled presenters of information. Included in the teaching of advanced oral presentation skills, computer assisted/ aided presentations, teleconferencing and other presentational skills. Designed for present and future demands on skilled presenters of information. Included in the teaching of advanced oral presentation skills, computer assisted/ aided presentations, teleconferencing and other presentational skills.
Pre-req: CMM 103 with a minimum grade of D or CMM 104H with a minimum grade of D or CMM 207 with a minimum grade of D or YGS 161 with a minimum grade of D or IST 101 with a minimum grade of D.
Grade Mode: Normal Grading Mode

CMM 303 Intro Communication Thry **3 Credit hours**
Analysis of the process of communication and its constituent elements, with emphasis upon traditional and contemporary theories, their validation, and their use as a tool in diagnosis and remediation of communication problems. Analysis of the process of communication and its constituent elements, with emphasis upon traditional and contemporary theories, their validation, and their use as a tool in diagnosis and remediation of communication problems.
Pre-req: CMM 103 or CMM 104H or CMM 207 or CMM 305 or YGS 161 or IST 101.
Grade Mode: Normal Grading Mode

CMM 307 Political Communication **3 Credit hours**
Investigation of the functions, ethics, responsibilities and social impact of oral communication in periods of social unrest and/or political change. Investigation of the functions, ethics, responsibilities and social impact of oral communication in periods of social unrest and/or political change.
Pre-req: CMM 103 or CMM 104H or CMM 207 or CMM 305 or YGS 161 or IST 101.
Grade Mode: Normal Grading Mode

CMM 308 Persuasive Communication **3 Credit hours**
Introduction to the understanding, practice and analysis of persuasion. Behavioral and rhetorical theories of persuasion will be examined and applied to contemporary persuasive communications. Introduction to the understanding, practice and analysis of persuasion. Behavioral and rhetorical theories of persuas- ion will be examined and applied to contemporary persuasive communications.
Pre-req: CMM 103 with a minimum grade of D or CMM 104H with a minimum grade of D or CMM 207 with a minimum grade of D or YGS 161 with a minimum grade of D or IST 101 with a minimum grade of D.
Grade Mode: Normal Grading Mode

CMM 310 Argumentation & Debate **3 Credit hours**
Basic principles of agrument; practice in discussion and debate. Recommended but not a prerequisite for intercollegiate debating. Basic principles of agrument; practice in discussion and debate. Recommended but not a prerequisite for inter- collegiate debating.
Pre-req: CMM 103 or CMM 104H or CMM 207 or CMM 305 or YGS 161 or IST 101.
Grade Mode: Normal Grading Mode

CMM 311 Lang & Communication **3 Credit hours**
A method for studying the role which language plays in human affairs. A method for studying the role which language plays in human affairs.
Grade Mode: Normal Grading Mode

CMM 315 Group Communication **3 Credit hours**
Study of group communication processes, including problem solving, systems of group communication analysis and evaluation, in task oriented groups. Study of group communication processes, including problem solving, systems of group communication analysis and evaluation, in task oriented groups.
Pre-req: CMM 103 with a minimum grade of D or CMM 104H with a minimum grade of D or CMM 207 with a minimum grade of D or YGS 161 with a minimum grade of D or IST 101 with a minimum grade of D.
Grade Mode: Normal Grading Mode

CMM 316 Legal Communication **3 Credit hours**
The theory and practice of legal communication techniques. The course will examine interviewing skills, negotiation skills, argument preparation skills, presentation skills, and cross-examination skills. Recommended for pre-law students. The theory and practice of legal communication techniques. The course will examine interviewing skills, negotiation skills, argument preparation skills, presentation skills, and cross-examination skills. Recommended for pre-law students.
Pre-req: CMM 103 or CMM 104H or CMM 207 or YGS 161 or IST 101.
Grade Mode: Normal Grading Mode

CMM 319 Superior-Subordinate Comm **3 Credit hours**
Survey of principles underlying communication between superiors and subordinates in organizations. Emphasis placed upon communication strategies regarding role definition, performance feedback, development and maintenance of relationships, conflict management, leadership, decisionmaking. Survey of principles underlying communication between superiors and subordinates in organizations. Emphasis placed upon communication strategies regarding role defini- tion, performance feedback, development and maintenance of relationships, conflict management, leadership, decision- making.
Pre-req: CMM 103 with a minimum grade of D or CMM 104H with a minimum grade of D or CMM 207 with a minimum grade of D or YGS 161 with a minimum grade of D or IST 101 with a minimum grade of D.
Grade Mode: Normal Grading Mode

CMM 320 Oral Interpretation Lit **3 Credit hours**
The fundamentals of reading, analyzing, and interpreting literature. The fundamentals of reading, analyzing, and interpreting literature.
Grade Mode: Normal Grading Mode

CMM 322 Intercultural Communication **3 Credit hours**
A study of the barriers to communication across cultures and of strategies for addressing these problems.
Pre-req: CMM 103 with a minimum grade of D or CMM 104H with a minimum grade of D or CMM 207 with a minimum grade of D or CMM 213 with a minimum grade of D or YGS 161 with a minimum grade of D or IST 101 with a minimum grade of D.
Attributes: Multicultural
Grade Mode: Normal Grading Mode

CMM 330 Performance Theory **3 Credit hours**
The study of performance practices that function as enactments of cultural identity. Topics will include performance as a cultural process, performance in social roles, and performance as power.
Pre-req: CMM 103 or CMM 104H or CMM 207.
Attributes: Multicultural
Grade Mode: Normal Grading Mode

CMM 345 Listening & Feedback **3 Credit hours**
A study of listening/feedback behavior as an integral part of the communication process, development of listening/ feedback skills, and an awareness of barriers to effective listening and feedback. A study of listening/feedback behavior as an integral part of the communication process, development of listening/ feedback skills, and an awareness of barriers to effective listening and feedback.
Pre-req: CMM 103 or CMM 104H or CMM 207 or YGS 161 or IST 101.
Grade Mode: Normal Grading Mode

CMM 370 Intercollegiate Debate **1 Credit hour**
(PR: Permission of instructor). May be repeated 3 times for credit. Continuation of Speech 270-271.
Grade Mode: Normal Grading Mode

CMM 371 Intercollegiate Debate **1 Credit hour**
(PR: Permission of instructor). May be repeated 3 times for credit. Continuation of Speech 270-271.
Grade Mode: Normal Grading Mode

CMM 374 Intro to Health Communication **3 Credit hours**
Surveys interpersonal, public, and organizational health communication theories and findings; explores the communication demands of health care and promotion, communication issues in health systems, and strategies to resolve problems.
Grade Mode: Normal Grading Mode

CMM 401 Organization Communication **3 Credit hours**
Investigation of information flow in organizations with emphasis on identifying communication problems. Investigation of information flow in organizations with emphasis on identifying communication problems.
Pre-req: CMM 303 (may be taken concurrently).
Concurrent PR: CMM 303
Grade Mode: Normal Grading Mode

CMM 402 Rhetorical Theory **3 Credit hours**
An exploration of theories of rhetoric from the Greek philosophers to the present. This course will examine the strategic use of symbols in persuasive discourse. An exploration of theories of rhetoric from the Greek philosophers to the present. This course will examine the strategic use of symbols in persuasive discourse.
Grade Mode: Normal Grading Mode

CMM 403 Nonverbal Communication **3 Credit hours**
This course will explore the areas and significance of nonverbal communication as they relate to the quality and effectiveness of human interaction in personal, social, and professional relationships. This course will explore the areas and significance of nonverbal communication as they relate to the quality and effectiveness of human interaction in personal, social, and professional relationships.
Pre-req: CMM 103 with a minimum grade of D or CMM 207 with a minimum grade of D or CMM 104H with a minimum grade of D.
Attributes: Multicultural
Grade Mode: Normal Grading Mode

CMM 404 Rhetorical Comm Criticism **3 Credit hours**
An examination of the construction of rhetorical texts and the effects they produce.
Grade Mode: Normal Grading Mode

CMM 406 Interviewing **3 Credit hours**
Skill development in the question-answer-response process as it applies to a variety of interviewing situations. Skill development in the question-answer-response process as it applies to a variety of interviewing situations.
Grade Mode: Normal Grading Mode

CMM 408 Leadership & Group Comm **3 Credit hours**
A study of the variable affecting, and affected by, communication process in small groups, with particular emphasis upon leadership variables. A study of the variable affecting, and affected by, communication process in small groups, with particular emphasis upon leadership variables.
Pre-req: CMM 315.
Grade Mode: Normal Grading Mode

CMM 409 Theory Persuasion Change **3 Credit hours**
Study of the relationship between persuasion and social change, including theories of attitude and behavioral change and contemporary theories of persuasion. Study of the relationship between persuasion and social change, including theories of attitude and behavioral change and contemporary theories of persuasion.
Attributes: Digital Humanities
Grade Mode: Normal Grading Mode

CMM 411 Communication Study & Resch **3 Credit hours**
Introduction to the advanced study of theory and research areas with emphasis on communication research methods and reporting.
Pre-req: CMM 303 (may be taken concurrently).
Concurrent PR: CMM 303
Grade Mode: Normal Grading Mode

CMM 413 Theories of Interpersonal Com **3 Credit hours**
Pre-req: CMM 213.
Grade Mode: Normal Grading Mode

CMM 420 Communication & Conflict **3 Credit hours**
An exploration of the theory, research, and practice of communication in understanding and negotiating interpersonal conflict.
Grade Mode: Normal Grading Mode

CMM 421 Gender and Communication **3 Credit hours**
An exploration of gender as an organizing principle for communication. An exploration of gender as an organizing principle for communication.
Grade Mode: Normal Grading Mode

CMM 441 Dev Appr Film Since 1930 **3 Credit hours**
Study of important directions in modern film, including style, genre, and the relationship to contemporary society. A variety offilms will be viewed for analysis. Study of important directions in modern film, including style, genre, and the relationship to contemporary society. A variety offilms will be viewed for analysis.
Grade Mode: Normal Grading Mode

CMM 450 Direction Speech Activity **3 Credit hours**
Direction of extracurricular speech activities: assemblies, forensic events, etc. Direction of extracurricular speech activities: assemblies, forensic events, etc.
Grade Mode: Normal Grading Mode

CMM 456 Computer-Mediated Comm **3 Credit hours**
This course explores the impact of computer-mediated communication on human organization. This course explores the impact of computer-mediated comm- unication on human organization.
Attributes: Digital Humanities
Grade Mode: Normal Grading Mode

CMM 474 Interpersonal Health Comm **3 Credit hours**
Investigates communication in establishing effective interactions between health providers, patients, and families. Explores theories and findings in relationship development, decision making, intercultural communication, social support, advocacy, and family relationships. Investigates communication in establishing effective interactions between health providers, patients, and families. Explores theories and findings in relationship development, decision making, intercultural communication, social support, advocacy, and family relationships.
Grade Mode: Normal Grading Mode

CMM 476 Communication Classrm Tch **3 Credit hours**
Knowledge and utilization of interpersonal communication skills in all teaching-learning environments. Knowledge and utilization of interpersonal communication skills in all teaching-learning environments.
Grade Mode: Normal Grading Mode

CMM 478 Senior Seminar **3 Credit hours**
Capstone experience. The development, organization, revision and presentation of major projects that serve to demonstrate the student's competence in the discipline.
Pre-req: CMM 411 with a minimum grade of D.
Attributes: Capstone Course
Grade Mode: Normal Grading Mode

CMM 479 Public Health Communication **3 Credit hours**
Examines communication processes that influence human behavior and public policy through health promotion campaigns, including theories and practices of health behavior change and designing, implementing, and evaluating health communication interventions.
Grade Mode: Normal Grading Mode

CMM 480 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

CMM 481 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

CMM 482 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

CMM 483 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

CMM 485 Independent Study **1-4 Credit hours**
Attributes: No Textbook Required
Grade Mode: Normal Grading Mode

CMM 486 Independent Study **1-4 Credit hours**
Grade Mode: Normal Grading Mode

CMM 487 Independent Study **1-4 Credit hours**
Grade Mode: Normal Grading Mode

CMM 488 Independent Study **1-4 Credit hours**
Grade Mode: Normal Grading Mode

CMM 490 Internship **1-4 Credit hours**
Attributes: No Textbook Required
Grade Mode: Normal Grading Mode

CMM 495H Readings Honors Com Study **4 Credit hours**
Open only to speech majors of outstanding ability. See Honors Courses. Open only to speech majors of outstanding ability. See Honors Courses.
Grade Mode: Normal Grading Mode

Faculty

Professors
Bookwalter, Tarter, S. Underhill

Associate Professors
J. Underhill

Assistant Professor
Brown, Mao, Snyder-Yuly

Instructors
C. Adkins, D. Adkins, Cole, Cook, Jackson

Business Communication, Minor

This minor will include an additional 12 hours beyond the Core II communication classes. The 12 hours may be composed of any of the following classes:

Code	Title	Credit Hours
Select four of the following:		12
CMM 319	Superior-Subordinate Comm	
CMM 302	Professional Presentations	
CMM 308	Persuasive Communication	
CMM 315	Group Communication	
CMM 322	Intercultural Communication	
CMM 374	Intro to Health Communication	
CMM 345	Listening & Feedback	
CMM 403	Nonverbal Communication	
CMM 406	Interviewing	
CMM 420	Communication & Conflict	
Total Credit Hours		**12**

Communication Studies, B.A.

Communication Studies majors must fulfill the general and specific requirements for the B.A. degree. Courses which fulfill a general education requirement in Communication Studies (CMM 103 Fund Speech-Communication, CMM 104H Honors in Speech Comm, or CMM 207 Bus & Prof Communication) may not be used to satisfy major requirements.

All Communication Studies concentrations require the following classes:

Code	Title	Credit Hours
CMM 302	Professional Presentations	3
CMM 303	Intro Communication Thry	3
CMM 411	Communication Study & Resch	3
CMM 478	Senior Seminar	3

The specific requirements for each concentration are listed in the following sections.

Areas of Emphasis

- Health Communication, Concentration (p. 245)
- Interpersonal Communication, Concentration (p. 247)
- Organizational Communication, Concentration (p. 248)
- Public Communication, Concentration (p. 250)

Health Communication, Concentration

- General Education Course

- Milestone course: a key success marker for your major. See your advisor to discuss the importance of this course in your plan of study.

Major

The Core Curriculum is designed to foster critical thinking skills and introduce students to basic domains of thinking that transcend disciplines. The Core applies to all majors. Information on specific classes in the Core can be found at https://www.marshall.edu/gened/.

Code	Title	Credit Hours
Core Curriculum		
Core 1: Critical Thinking		
FYS 100	First Yr Sem Critical Thinking	3
MTH 121	Concepts and Applications (CT)	3
Critical Thinking		3
Core 2		
ENG 101	Beginning Composition	3
ENG 201	Advanced Composition	3
CMM 103	Fund Speech-Communication	3
MTH 121	Concepts and Applications (CT)	3
Core II Natural/Physical Science		4
Core II Humanities		3
Core II Social Science		3
Core II Fine Arts		3
Additional University Requirements		
Writing Intensive (300/400 COLA Lit)		3
Writing Intensive (300/400 COLA Lit)		3
Multicultural or International		3
CMM 478	Senior Seminar (Capstone)	3
College-Specific		
Foreign Language 101		3
Foreign Language 102		3
Foreign Language 203		3
Foreign Language 204		3
COLA Humanities		3
300/400 COLA Literature (WI)		3
300/400 COLA Literature (WI)		3
300/400 COLA Social Science		3
300/400 COLA Social Science		3
COLA Social Science		3
COLA Natural/Physical Science		4

COLA International		3
COLA Multicultural		3
CMM 322	Intercultural Communication (recommended)	
Major-Specific		
CMM 302	Professional Presentations	3
CMM 303	Intro Communication Thry	3
CMM 411	Communication Study & Resch	3
CMM 478	Senior Seminar	3
CMM 374	Intro to Health Communication	3
CMM 474	Interpersonal Health Comm	3
CMM 479	Public Health Communication	3
CMM Restricted Major Electives		
Select three of the following, at least two must be 300/400 level:		9
CMM 213	Fund Interpersonal Com	
CMM 308	Persuasive Communication	
CMM 315	Group Communication	
CMM 322	Intercultural Communication	
CMM 345	Listening & Feedback	
CMM 406	Interviewing	
CMM 409	Theory Persuasion Change	
CMM 420	Communication & Conflict	
300/400 CMM Elective		3
300/400 CMM Elective		3
300/400 Free Elective		3
Free Elective		3
Free Elective		3
Free Elective		1

Major Information

- The total number of free electives will depend on the amount of double and triple counting of requirements.
- See course attributes each semester for courses that meet multiple requirements.
- Questions about requirements should be directed to the College of Liberal Arts (304-696-2350). Core II and COLA requirements may not be double counted.
- Forty-eight credit hours (sixteen 3-hour courses) must be at the 300/400 level.
- Students must earn a *C* or better in ENG 201 Advanced Composition and all foreign language courses.
- Minimum of 120 hours to graduate.

- General Education Course

- Milestone course: a key success marker for your major. See your advisor to discuss the importance of this course in your plan of study.

Four Year Plan

The Communication Studies Department offers a variety of courses and major concentrations which are designed to provide current knowledge, cognitive abilities, and competencies in communication. The Health Communication concentration is intended for students seeking professions in health and wellness-related fields, as well as graduate work in communication.

Course	Title	Credit Hours
First Year		
First Semester		
ENG 101	Beginning Composition	3
FYS 100	First Yr Sem Critical Thinking	3
Core II Social Science		3
MTH 121	Concepts and Applications (CT)	3
CMM 103	Fund Speech-Communication	3
UNI 100	Freshman First Class	1
	Credit Hours	**16**
Second Semester		
CMM 302	Professional Presentations	3
ENG 201	Advanced Composition	3
Critical Thinking		3
Core II Humanities		3
Core II Fine Arts		3
	Credit Hours	**15**
Second Year		
First Semester		
CMM 303	Intro Communication Thry	3
Foreign Language 101		3
Core II Natural/Physical Science		4
COLA Social Science		3
Free Elective		3
	Credit Hours	**16**
Second Semester		
COLA Natural/Physical Science		4
Foreign Language 102		3
Multicultural or International		3
300/400 COLA Literature (WI)		3
Free Elective		3
	Credit Hours	**16**
Third Year		
First Semester		
Foreign Language 203		3
300/400 COLA Social Science		3
300/400 COLA Multicultural		3
300/400 COLA International		3
300/400 CMM Restricted Major Elective		3
	Credit Hours	**15**
Second Semester		
Foreign Language 204		3
CMM Restricted Major Elective		3
CMM 374	Intro to Health Communication	3
300/400 COLA Social Science		3
300/400 Free Elective		3
	Credit Hours	**15**
Fourth Year		
First Semester		
CMM 474	Interpersonal Health Comm	3
CMM 479	Public Health Communication	3

CMM 411	Communication Study & Resch	3
300/400 CMM Restricted Major Elective		3
300/400 COLA Literature (WI)		3
	Credit Hours	**15**
Second Semester		
CMM 478	Senior Seminar (Capstone)	3
300/400 CMM Elective		3
COLA Humanities		3
300/400 CMM Elective		3
	Credit Hours	**12**
	Total Credit Hours	**120**

Interpersonal Communication, Concentration

- General Education Course

- Milestone course: a key success marker for your major. See your advisor to discuss the importance of this course in your plan of study.

Major

The Core Curriculum is designed to foster critical thinking skills and introduce students to basic domains of thinking that transcend disciplines. The Core applies to all majors. Information on specific classes in the Core can be found at https://www.marshall.edu/gened/.

Code	Title	Credit Hours
Core Curriculum		
Core 1: Critical Thinking		
FYS 100	First Yr Sem Critical Thinking	3
MTH 121	Concepts and Applications (CT)	3
Critical Thinking		3
Core 2		
ENG 101	Beginning Composition	3
ENG 201	Advanced Composition	3
CMM 103	Fund Speech-Communication	3
MTH 121	Concepts and Applications (CT)	3
Core II Natural/Physical Science		4
Core II Humanities		3
Core II Social Science		3
Core II Fine Arts		3
Additional University Requirements		
Writing Intensive (300/400 COLA Lit)		3
Writing Intensive (300/400 COLA Lit)		3
Multicultural or International		3
CMM 478	Senior Seminar (Capstone)	3
College-Specific		
Foreign Language 101		3
Foreign Language 102		3
Foreign Language 203		3
Foreign Language 204		3
COLA Humanities		3
300/400 COLA Literature (WI)		3
300/400 COLA Literature (WI)		3
300/400 COLA Social Science		3
300/400 COLA Social Science		3
COLA Social Science		3
COLA Natural/Physical Science		4
COLA International		3
COLA Multicultural		3
Major-Specific		
CMM 213	Fund Interpersonal Com	3
CMM 302	Professional Presentations	3
CMM 303	Intro Communication Thry	3
CMM 311	Lang & Communication	3
CMM 315	Group Communication	3
or CMM 322	Intercultural Communication	
CMM 345	Listening & Feedback	3
CMM 411	Communication Study & Resch	3
CMM 413	Theories of Interpersonal Com	3
CMM 420	Communication & Conflict	3
CMM 478	Senior Seminar	3
300/400 CMM Elective		3
300/400 CMM Elective		3
MKT Elective		3
300/400 Free Elective		3
Free Elective		3
Free Elective		1

Major Information

- The total number of free electives will depend on the amount of double and triple counting of requirements.
- See course attributes each semester for courses that meet multiple requirements.
- Questions about requirements should be directed to the College of Liberal Arts (304-696-2350). Core II and COLA requirements may not be double counted.
- Forty-eight credit hours (sixteen 3-hour courses) must be at the 300/400 level.
- Students must earn a *C* or better in ENG 201 Advanced Composition and all foreign language courses.
- Minimum of 120 hours to graduate.

- General Education Course

- Milestone course: a key success marker for your major. See your advisor to discuss the importance of this course in your plan of study.

Four Year Plan

The Communication Studies Department offers a variety of courses and major concentrations which are designed to provide current knowledge, cognitive abilities, and competencies in communication. The Interpersonal Communication concentration is intended for students seeking personal enrichment and/or futures in service industries and institutions, the professions, or graduate work in communication.

Course	Title	Credit Hours
First Year		
First Semester		
ENG 101	Beginning Composition	3
FYS 100	First Yr Sem Critical Thinking	3
Core II Social Science		3
MTH 121	Concepts and Applications (CT)	3
CMM 103	Fund Speech-Communication	3
UNI 100	Freshman First Class	1
	Credit Hours	**16**
Second Semester		
CMM 302	Professional Presentations	3
ENG 201	Advanced Composition	3
Critical Thinking		3
Core II Humanities		3
Core II Fine Arts		3
	Credit Hours	**15**
Second Year		
First Semester		
CMM 303	Intro Communication Thry	3
Foreign Language 101		3
Core II Natural/Physical Science		4
COLA Social Science		3
CMM 213	Fund Interpersonal Com	3
	Credit Hours	**16**
Second Semester		
COLA Natural/Physical Science		4
Foreign Language 102		3
Multicultural or International		3
300/400 COLA Literature (WI)		3
Free Elective		3
	Credit Hours	**16**
Third Year		
First Semester		
Foreign Language 203		3
300/400 COLA Social Science		3
COLA Multicultural		3
COLA International		3
CMM 311	Lang & Communication	3
	Credit Hours	**15**
Second Semester		
Foreign Language 204		3
MKT Elective		3
CMM 315 or CMM 322	Group Communication or Intercultural Communication	3
300/400 COLA Social Science		3
300/400 Free Elective		3
	Credit Hours	**15**
Fourth Year		
First Semester		
CMM 345	Listening & Feedback	3
CMM 413	Theories of Interpersonal Com	3
CMM 411	Communication Study & Resch	3
300/400 CMM Elective		3
300/400 COLA Literature (WI)		3
	Credit Hours	**15**
Second Semester		
CMM 478	Senior Seminar (Capstone)	3
CMM 420	Communication & Conflict	3
COLA Humanities		3
300/400 CMM Elective		3
	Credit Hours	**12**
	Total Credit Hours	**120**

Organizational Communication, Concentration

- General Education Course

- Milestone course: a key success marker for your major. See your advisor to discuss the importance of this course in your plan of study.

Major

The Core Curriculum is designed to foster critical thinking skills and introduce students to basic domains of thinking that transcend disciplines. The Core applies to all majors. Information on specific classes in the Core can be found at https://www.marshall.edu/gened/.

Code	Title	Credit Hours
Core Curriculum		
Core 1: Critical Thinking		
FYS 100	First Yr Sem Critical Thinking	3
MTH 121	Concepts and Applications (CT)	3
Critical Thinking		3
Core 2		
ENG 101	Beginning Composition	3
ENG 201	Advanced Composition	3
CMM 103	Fund Speech-Communication	3
MTH 121	Concepts and Applications (CT)	3
Core II Natural/Physical Science		4
Core II Humanities		3
Core II Social Science		3
Core II Fine Arts		3
Additional University Requirements		
Writing Intensive (300/400 COLA Lit)		3
Writing Intensive (300/400 COLA Lit)		3
Multicultural or International		3
CMM 478	Senior Seminar (Capstone)	3
College-Specific		

Foreign Language 101		3
Foreign Language 102		3
Foreign Language 203		3
Foreign Language 204		3
COLA Humanities		3
300/400 COLA Literature (WI)		3
300/400 COLA Literature (WI)		3
300/400 COLA Social Science		3
300/400 COLA Social Science		3
COLA Social Science		3
COLA Natural/Physical Science		4
COLA International		3
COLA Multicultural		3
Major-Specific		
CMM 302	Professional Presentations	3
CMM 303	Intro Communication Thry	3
CMM 411	Communication Study & Resch	3
CMM 315	Group Communication	3
CMM 319	Superior-Subordinate Comm	3
CMM 401	Organization Communication	3
CMM 408	Leadership & Group Comm	3
CMM 420	Communication & Conflict	3
CMM 478	Senior Seminar (Capstone)	3
300/400 CMM Elective		3
300/400 CMM Elective		3
300/400 CMM Elective		3
Free Elective		3
Free Elective		3
Free Elective		3
Free Elective		1

Major Information

- The total number of free electives will depend on the amount of double and triple counting of requirements.
- See course attributes each semester for courses that meet multiple requirements.
- Questions about requirements should be directed to the College of Liberal Arts (304-696-2350). Core II and COLA requirements may not be double counted.
- Forty-eight credit hours (sixteen 3-hour courses) must be at the 300/400 level.
- Students must earn a *C* or better in ENG 201 Advanced Composition and all foreign language courses.
- Minimum of 120 hours to graduate.

- General Education Course

- Milestone course: a key success marker for your major. See your advisor to discuss the importance of this course in your plan of study.

Four Year Plan

The Communication Studies Department offers a variety of courses and major concentrations which are designed to provide current knowledge, cognitive abilities, and competencies in communication. The Organizational Communication concentration is intended for students seeking communication roles in organizations, industries, corporations, and/or government institutions, as well as graduate work in communication.

Course	Title	Credit Hours
First Year		
First Semester		
ENG 101	Beginning Composition	3
FYS 100	First Yr Sem Critical Thinking	3
Core II Social Science		3
MTH 121	Concepts and Applications (CT)	3
CMM 103	Fund Speech-Communication	3
UNI 100	Freshman First Class	1
	Credit Hours	**16**
Second Semester		
CMM 302	Professional Presentations	3
ENG 201	Advanced Composition	3
Critical Thinking		3
Core II Humanities		3
Core II Fine Arts		3
	Credit Hours	**15**
Second Year		
First Semester		
CMM 303	Intro Communication Thry	3
Foreign Language 101		3
Core II Natural/Physical Science		4
COLA Social Science		3
Free Elective		3
	Credit Hours	**16**
Second Semester		
COLA Natural/Physical Science		4
Foreign Language 102		3
Multicultural or International		3
300/400 COLA Literature (WI)		3
CMM 315	Group Communication	3
	Credit Hours	**16**
Third Year		
First Semester		
Foreign Language 203		3
300/400 COLA Social Science		3
300/400 COLA Multicultural		3
300/400 COLA International		3
CMM 319	Superior-Subordinate Comm	3
	Credit Hours	**15**
Second Semester		
Foreign Language 204		3
CMM 401	Organization Communication	3
300/400 CMM Elective		3
300/400 COLA Social Science		3
Free Elective		3
	Credit Hours	**15**

Fourth Year		
First Semester		
CMM 408	Leadership & Group Comm	3
CMM 420	Communication & Conflict	3
CMM 411	Communication Study & Resch	3
300/400 CMM Elective		3
300/400 COLA Literature (WI)		3
	Credit Hours	**15**
Second Semester		
CMM 478	Senior Seminar (Capstone)	3
300/400 CMM Elective		3
COLA Humanities		3
Free Elective		3
	Credit Hours	**12**
	Total Credit Hours	**120**

Public Communication, Concentration

- General Education Course

- Milestone course: a key success marker for your major. See your advisor to discuss the importance of this course in your plan of study.

Major

The Core Curriculum is designed to foster critical thinking skills and introduce students to basic domains of thinking that transcend disciplines. The Core applies to all majors. Information on specific classes in the Core can be found at https://www.marshall.edu/gened/.

Code	Title	Credit Hours
Core Curriculum		
Core 1: Critical Thinking		
FYS 100	First Yr Sem Critical Thinking	3
MTH 121	Concepts and Applications (CT)	3
Critical Thinking		3
Core 2		
ENG 101	Beginning Composition	3
ENG 201	Advanced Composition	3
CMM 103	Fund Speech-Communication	3
MTH 121	Concepts and Applications (CT)	3
Core II Natural/Physical Science		4
Core II Humanities		3
Core II Social Science		3
Core II Fine Arts		3
Additional University Requirements		
Writing Intensive (300/400 COLA Lit)		3
Writing Intensive (300/400 COLA Lit)		3
Multicultural or International		3
CMM 478	Senior Seminar (Capstone)	3
College-Specific		
Foreign Language 101		3
Foreign Language 102		3
Foreign Language 203		3
Foreign Language 204		3
CMM 205	The Rhetorical World (CT)	3
300/400 COLA Literature (WI)		3
300/400 COLA Literature (WI)		3
300/400 COLA Social Science		3
300/400 COLA Social Science		3
COLA Social Science		3
COLA Natural/Physical Science		4
COLA International		3
COLA Multicultural		3
Major-Specific		
CMM 302	Professional Presentations	3
CMM 303	Intro Communication Thry	3
CMM 411	Communication Study & Resch	3
CMM 205	The Rhetorical World (CT)	3
CMM 308	Persuasive Communication	3
CMM 310	Argumentation & Debate	3
CMM 402	Rhetorical Theory	3
CMM 409	Theory Persuasion Change	3
CMM 478	Senior Seminar	3
300/400 CMM Elective		3
300/400 CMM Elective		3
300/400 CMM Elective		3
300/400 Free Elective		3
Free Elective		3
Free Elective		3
Free Elective		3
Free Elective		1

Major Information

- The total number of free electives will depend on the amount of double and triple counting of requirements.
- See course attributes each semester for courses that meet multiple requirements.
- Questions about requirements should be directed to the College of Liberal Arts (304-696-2350). Core II and COLA requirements may not be double counted.
- Forty-eight credit hours (sixteen 3-hour courses) must be at the 300/400 level.
- Students must earn a C or better in ENG 201 Advanced Composition and all foreign language courses.
- Minimum of 120 hours to graduate.

- General Education Course

- Milestone course: a key success marker for your major. See your advisor to discuss the importance of this course in your plan of study.

Four Year Plan

The Communication Studies Department offers a variety of courses and major concentrations which are designed to provide current knowledge, cognitive abilities, and competencies in communication. The Public Communication concentration is intended

for students seeking public roles in the legal, political, and/or other communication settings of democratic society, as well as graduate work in communication.

Course	Title	Credit Hours
First Year		
First Semester		
ENG 101	Beginning Composition	3
FYS 100	First Yr Sem Critical Thinking	3
Core II Social Science		3
MTH 121	Concepts and Applications (CT)	3
CMM 103	Fund Speech-Communication	3
UNI 100	Freshman First Class	1
	Credit Hours	**16**
Second Semester		
CMM 302	Professional Presentations	3
ENG 201	Advanced Composition	3
Critical Thinking		3
Core II Humanities		3
Core II Fine Arts		3
	Credit Hours	**15**
Second Year		
First Semester		
CMM 303	Intro Communication Thry	3
Foreign Language 101		3
Core II Natural/Physical Science		4
COLA Social Science		3
Free Elective		3
	Credit Hours	**16**
Second Semester		
COLA Natural/Physical Science		4
Foreign Language 102		3
CMM 205	The Rhetorical World (CT)	3
300/400 COLA Literature (WI)		3
Free Elective		3
	Credit Hours	**16**
Third Year		
First Semester		
Foreign Language 203		3
300/400 COLA Social Science		3
300/400 COLA Multicultural		3
Multicultural/International		3
CMM 308	Persuasive Communication	3
	Credit Hours	**15**
Second Semester		
Foreign Language 204		3
CMM 310	Argumentation & Debate	3
CMM 402	Rhetorical Theory	3
300/400 COLA Social Science		3
300/400 Free Elective		3
	Credit Hours	**15**
Fourth Year		
First Semester		
CMM 409	Theory Persuasion Change	3
CMM 411	Communication Study & Resch	3
300/400 COLA Literature (WI)		3
300/400 COLA International		3
300/400 CMM Elective		3
	Credit Hours	**15**
Second Semester		
CMM 478	Senior Seminar (Capstone)	3
300/400 CMM Elective		3
Free Elective		3
300/400 CMM Elective		3
	Credit Hours	**12**
	Total Credit Hours	**120**

Communication Studies, Minor

A minor in Communication Studies consists of 12 hours, but may not include CMM 103 Fund Speech-Communication, CMM 104H Honors in Speech Comm, or CMM 207 Bus & Prof Communication as those courses are used to fulfill general education requirements.

Department of English

Contacts: Dr. Allison Carey, Chair
Website: http://www.marshall.edu/english (http://www.marshall.edu/english/)

english@marshall.edu

The Department of English offers a wide range of courses in literature, language, and writing designed to meet the needs and interests of general-education students, English majors and minors, and students majoring in other fields.

B.A. students may choose from Literary Studies, Creative Writing, English Education Content, Professional Writing, and Generalist majors. College of Education students in English Education 5-Adult qualify for a second major in English in the College of Liberal Arts by completing their Teaching Specialization. English 5-Adult majors should go to the English Department main office in Corbly Hall 346 to declare the second major in English.

Although the areas differ, the goals are essentially the same: an acquaintance with English and American literature necessary for the liberally educated person; a knowledge of the practices necessary for perceptive reading and writing; an ability to write English with competence and grace; and a sense of English studies as a discipline. The capstone experience for English majors consists of ENG 499 Senior Capstone, which requires a capstone project to be determined by the student in collaboration with the instructor.

The B.A. program in each of the five majors requires 36 hours of coursework in the major.

- No more than 6 hours at the 200 level may count toward the degree.

- A minimum of 12 hours in the major at the 400 level is required to enroll in ENG 499 Senior Capstone.
- Appropriate courses for a specific major should be selected in consultation with assigned advisor.
- No course in which a grade lower than *C* is earned may count toward completion of the major.

Programs

- Creative Writing, B.A. (p. 262)
- Creative Writing, Minor (p. 265)
- English (Generalist), B.A. (p. 265)
- English Education 5-Adult Teaching Specialization (p. 266)
- English, Minor (p. 267)
- Literary Studies, B.A. (p. 267)
- Professional Writing, B.A. (p. 269)
- Professional Writing, Minor (p. 271)

Courses

- General Education Course

ENG 101 Beginning Composition **3 Credit hours**
Introduction to academic writing with emphasis on writing as a multi-stage process, critical thinking, and fundamental research strategies and skills.
Pre-req: ACT Verbal with a score of 18 or SAT Verbal Before March 16 with a score of 450 or SAT EVIDENCE-BASED READ/WRIT with a score of 480 or ENG 0XX or Placement English with a score of 0101 or ENG 099 with a minimum grade of CR or ENG 100 with a minimum grade of C or ENG 101C.
Attributes: Composition Core II
Grade Mode: Normal Grading Mode

ENG 101P Beginning Composition Plus **4 Credit hours**
Introduction to academic writing with emphasis on writing as a multi-stage process, critical thinking, and fundamental research strategies and skills. Additional attention on reading, paragraph development, and sentence-level writing skills.
Attributes: Composition Core II
Grade Mode: Normal Grading Mode

ENG 150 Academic Listening & Speaking **3 Credit hours**
This course promotes the development of English language fluency by nonnative speakers of English. It specifically targets the language skills necessary for successful oral communication within an academic context.
Grade Mode: Normal Grading Mode

ENG 151 Academic Reading **3 Credit hours**
This course prepares nonnative speakers of English to meet the challenges of reading for academic purposes at the college level by improving their reading skills and English language proficiency.
Grade Mode: Normal Grading Mode

ENG 160 Academic English & Composition **6 Credit hours**
This course for nonnative speakers of English focuses on written academic English, including grammar, mechanics, research, American English rhetorical conventions, and process writing. It further provides practice in oral communication.
Grade Mode: Normal Grading Mode

ENG 200 Texting the World(CT) **3 Credit hours**
This class brings together literary and non-literary texts and considers how the same theme plays through them via analysis, evaluation, and creation of said texts. This class brings together literary and non-literary texts and considers how the same theme plays through them via analysis, evaluation, and creation of said texts.
Attributes: Critical Thinking, Core II Humanities, Literature
Grade Mode: Normal Grading Mode

ENG 200H Texting the World (CT) **3 Credit hours**
This class brings together literary and non-literary texts and considers how the same theme plays through them via analysis, evaluation and creation of said texts.
Pre-req: Admitted Honors College with a score of 1.
Attributes: Composition Core II, Critical Thinking, Honors, Core II Humanities, Literature
Grade Mode: Normal Grading Mode

ENG 201 Advanced Composition **3 Credit hours**
An advanced composition course centered on critical reading, writing, and research skills for the disciplines.
Pre-req: ENG 101 with a minimum grade of C or ENG 101P with a minimum grade of C or ENG 160 with a minimum grade of C or ENG 101B with a minimum grade of C.
Attributes: Composition Core II
Grade Mode: Normal Grading Mode

ENG 201H English Comp Honors **3 Credit hours**
An accelerated course in English composition. Completion of 201H with a C or better satisfies the University requirement in freshman composition. Students completing the course are awarded three additional hours of credit toward graduation. An accelerated course in English composition. Completion of 201H with a C or better satisfies the University requirement in freshman composition. Students completing the course are awarded three additional hours of credit toward graduation.
Pre-req: ACT Verbal with a score of 28 or SAT Verbal Before March 16 with a score of 640 or SAT EVIDENCE-BASED READ/WRIT with a score of 640.
Attributes: Composition Core II
Grade Mode: Normal Grading Mode

ENG 203 Appalachian Literature **3 Credit hours**
The study of Appalachian literature and texts that reflect cultural, political, and aesthetic experiences in the region as well as the intellectual, emotional, and spiritual experience of its inhabitants.(PR: Completion of Core II Composition Requirement)
Pre-req: ENG 201 with a minimum grade of C or ENG 201H with a minimum grade of C or ENG 200H with a minimum grade of C.
Attributes: Core II Humanities, Literature, Multicultural
Grade Mode: Normal Grading Mode

ENG 204 Writing for the Workplace **3 Credit hours**
A writing course focused on the styles and forms used in the workplace. (PR: Completion of Core II Composition Requirement; Restricted to College of Business students, English majors, and English minors)
Pre-req: ENG 201 with a minimum grade of C or ENG 201H with a minimum grade of C or ENG 200H with a minimum grade of C.
Grade Mode: Normal Grading Mode

ENG 205 Popular Literature (CT) **3 Credit hours**
The study of popular literature in its cultural contexts.
Attributes: Critical Thinking, Core II Humanities, Literature
Grade Mode: Normal Grading Mode

ENG 206 Good Plays **3 Credit hours**
Study of plays from a variety of traditions and/or historical eras that have had a powerful impact on culture and the tradition of drama. PR: Completion of Core II Composition Requirement
Pre-req: ENG 201 with a minimum grade of C or ENG 201H with a minimum grade of C or ENG 200H with a minimum grade of C.
Attributes: Core II Humanities, Literature
Grade Mode: Normal Grading Mode

ENG 207 Good Essays **3 Credit hours**
Criticism and analysis of representative selections of short nonfiction. (PR: Completion of Core II Composition Requirement)
Pre-req: ENG 201 with a minimum grade of C or ENG 201H with a minimum grade of C or ENG 200H with a minimum grade of C.
Attributes: Core II Humanities
Grade Mode: Normal Grading Mode

ENG 209 Literature of Fantasy **3 Credit hours**
Study of different forms, conventions, and styles in fantastic literature, such as legend, fairy tale, horror story, heroic fantasy, nonsense, and romance. (PR: Completion of Core II Composition Requirement)
Pre-req: ENG 201 with a minimum grade of C or ENG 200H with a minimum grade of C or ENG 201H with a minimum grade of C.
Attributes: Core II Humanities, Literature
Grade Mode: Normal Grading Mode

ENG 210 Autobiography **3 Credit hours**
Study of select autobiographies and memoirs from a variety of literary traditions. (PR: Completion of Core II Composition Requirement)
Pre-req: ENG 201 with a minimum grade of C or ENG 200H with a minimum grade of C or ENG 201H with a minimum grade of C.
Attributes: Core II Humanities, Literature
Grade Mode: Normal Grading Mode

ENG 211 Science Fiction **3 Credit hours**
Study of science fiction, including its background, themes, types, analyses, and appreciation. (PR: Completion of Core II Composition Requirement)
Pre-req: ENG 201 with a minimum grade of C or ENG 200H with a minimum grade of C or ENG 201H with a minimum grade of C.
Attributes: Core II Humanities, Literature
Grade Mode: Normal Grading Mode

ENG 212 Sports Literature **3 Credit hours**
Study of sports literature of different genres, including fiction, poetry, drama, and biography. (PR: Completion of Core II Composition Requirement)
Pre-req: ENG 201 with a minimum grade of C or ENG 200H with a minimum grade of C or ENG 201H with a minimum grade of C.
Attributes: Core II Humanities, Literature
Grade Mode: Normal Grading Mode

ENG 213 Good Poems **3 Credit hours**
Selected examples of poems from a variety of cultures and/or historical eras studied through close reading and analysis. (PR: Completion of Core II Composition Requirement)
Pre-req: ENG 201 with a minimum grade of C or ENG 200H with a minimum grade of C or ENG 201H with a minimum grade of C.
Attributes: Core II Humanities, Literature
Grade Mode: Normal Grading Mode

ENG 214 Intro to Comics **3 Credit hours**
Introduction of the literary art form of comics through a study of its history, genres, conventions, and complexities. (PR: Completion of Core II Composition Requirement)
Pre-req: ENG 201 with a minimum grade of C or ENG 200H with a minimum grade of C or ENG 201H with a minimum grade of C.
Attributes: Core II Humanities, Literature
Grade Mode: Normal Grading Mode

ENG 215 Good Novels **3 Credit hours**
An introduction to the basic elements of the novel, such as forms and techniques, through careful reading of selected novels and criticism concerning them. (PR: Completion of Core II Composition Requirement)
Pre-req: ENG 201 with a minimum grade of C or ENG 200H with a minimum grade of C or ENG 201H with a minimum grade of C.
Attributes: Core II Humanities, Literature
Grade Mode: Normal Grading Mode

ENG 220 The Political Novel **3 Credit hours**
Studies in English and American novels relating significantly to political themes. (PR: Completion of Core II Composition Requirement)
Pre-req: ENG 201 with a minimum grade of C or ENG 200H with a minimum grade of C or ENG 201H with a minimum grade of C.
Attributes: Core II Humanities, Literature
Grade Mode: Normal Grading Mode

ENG 221 Postcolonial Literature **3 Credit hours**
Study of postcolonial literature and theory. Focuses on questions of class, gender, sexuality and human rights in the literature of current and former colonies in Asia, Africa, and the Americas. (PR: Completion of Core II Composition Requirement)
Pre-req: ENG 201 with a minimum grade of C or ENG 200H with a minimum grade of C or ENG 201H with a minimum grade of C.
Attributes: Core II Humanities, Literature, Multicultural
Grade Mode: Normal Grading Mode

ENG 225 Southern Literature **3 Credit hours**
The study of selected writers of the American South from its beginnings to the present with special attention on writers after 1920. (PR: Completion of Core II Composition Requirement)
Pre-req: ENG 201 with a minimum grade of C or ENG 200H with a minimum grade of C or ENG 201H with a minimum grade of C.
Attributes: Core II Humanities, Literature
Grade Mode: Normal Grading Mode

ENG 231 Good Stories **3 Credit hours**
Criticism and analysis of representative short stories, primarily British and American. (PR: Completion of Core II Composition Requirement)
Pre-req: ENG 201 with a minimum grade of C or ENG 200H with a minimum grade of C or ENG 201H with a minimum grade of C.
Attributes: Core II Humanities, Literature
Grade Mode: Normal Grading Mode

ENG 232 Good Films **3 Credit hours**
Study of films as narratives, as cultural representations, and as aesthetic expressions. (PR: Completion of Core II Composition Requirement)
Pre-req: ENG 201 with a minimum grade of C or ENG 200H with a minimum grade of C or ENG 201H with a minimum grade of C.
Attributes: Core II Humanities, Literature
Grade Mode: Normal Grading Mode

ENG 235 Crime and Sensation Literature **3 Credit hours**
Examines the literary responses to crime and sensational literature and discusses the artistic, cultural, and historical contexts of those responses. (PR: Completion of Core II Composition Requirement)
Pre-req: ENG 201 with a minimum grade of C or ENG 200H with a minimum grade of C or ENG 201H with a minimum grade of C.
Attributes: Core II Humanities, Literature
Grade Mode: Normal Grading Mode

ENG 236 Forbidden Literature **3 Credit hours**
Examines the literary responses to "banned literature" and discusses the artistic, cultural and historical contexts of those responses. (PR: Completion of Core II Composition Requirement)
Pre-req: ENG 201 with a minimum grade of C or ENG 200H with a minimum grade of C or ENG 201H with a minimum grade of C.
Attributes: Core II Humanities, Literature
Grade Mode: Normal Grading Mode

ENG 240 African American Literatures **3 Credit hours**
Examination of the tradition in African American literatures through close reading. (PR: Completion of Core II Composition Requirement)
Pre-req: ENG 201 with a minimum grade of C or ENG 200H with a minimum grade of C or ENG 201H with a minimum grade of C.
Attributes: Core II Humanities, Literature, Multicultural
Grade Mode: Normal Grading Mode

ENG 241 Multicultural Literatures **3 Credit hours**
Study of texts from diverse ethnic and cultural groups in social and historical context. (PR: Completion of Core II Composition Requirement)
Pre-req: ENG 201 with a minimum grade of C or ENG 200H with a minimum grade of C or ENG 201H with a minimum grade of C.
Attributes: Core II Humanities, Literature, Multicultural
Grade Mode: Normal Grading Mode

ENG 242 Women Writers **3 Credit hours**
A study of women writers in cultural contexts. Surveys attitudes toward women, women writers, and their work. (PR: Completion of Core II Composition Requirement)
Pre-req: ENG 201 with a minimum grade of C or ENG 200H with a minimum grade of C or ENG 201H with a minimum grade of C.
Attributes: Core II Humanities, Literature, Multicultural
Grade Mode: Normal Grading Mode

ENG 263 Intro Digital Literary Studies **3 Credit hours**
An introduction to digital literary studies, including the use of digital tools for textual analysis, the study of electronic literature, and the creation of digital texts.
Pre-req: ENG 201 with a minimum grade of C or ENG 201H with a minimum grade of C or ENG 200H with a minimum grade of C.
Attributes: Digital Humanities, Core II Humanities, Literature
Grade Mode: Normal Grading Mode

ENG 280 Special Topics **1-4 Credit hours**
Writing courses to meet needs of special groups. Cannot be substituted for English 101-102 or English 201H. Writing courses to meet needs of special groups. Cannot be substituted for English 101-102 or English 201H.
Grade Mode: Normal Grading Mode

ENG 281 Special Topics **1-4 Credit hours**
Writing courses to meet needs of special groups. Cannot be substituted for English 101-102 or English 201H. Writing courses to meet needs of special groups. Cannot be substituted for English 101-102 or English 201H.
Grade Mode: Normal Grading Mode

ENG 282 Special Topics **1-4 Credit hours**
Writing courses to meet needs of special groups. Cannot be substituted for English 101-102 or English 201H. Writing courses to meet needs of special groups. Cannot be substituted for English 101-102 or English 201H.
Grade Mode: Normal Grading Mode

ENG 283 Special Topics **1-4 Credit hours**
Writing courses to meet needs of special groups. Cannot be substituted for English 101-102 or English 201 H. Writing courses to meet needs of special groups. Cannot be substituted for English 101-102 or English 201 H.
Grade Mode: Normal Grading Mode

ENG 314 Intro to Professional Writing **3 Credit hours**
An introductory course on the basic elements and types of professional writing, such as technical writing, non-profit writing, business writing, digital writing, scientific writing, and document design.
Pre-req: ENG 201 with a minimum grade of C or ENG 201H with a minimum grade of C or ENG 200H with a minimum grade of C.
Grade Mode: Normal Grading Mode

ENG 344 Introduction to Film Studies **3 Credit hours**
An intensive study of film form (mise-en-scene, cinematography, editing, and sound) and international film history. (PR: Completion of Core II Composition Requirement)
Pre-req: ENG 201 with a minimum grade of C or ENG 200H with a minimum grade of C or ENG 201H with a minimum grade of C.
Attributes: Digital Humanities, Literature
Grade Mode: Normal Grading Mode

ENG 350 Intro to Textual Analysis **3 Credit hours**
An introduction to critical reading of texts from a range of genres and media. Develops explication, critical reading, and research skills. Taken within the first 9 hours of coursework in major. (PR: Completion of Core II composition requirement and declaration of either English major or English 5-Adult major; or permission of chair)
Pre-req: ENG 201 with a minimum grade of C or ENG 200H with a minimum grade of C or ENG 201H with a minimum grade of C.
Attributes: Digital Humanities, Literature
Grade Mode: Normal Grading Mode

ENG 354 Scientific & Tech Writing **3 Credit hours**
Acquaints students with types and styles of written reports required in science, government, industry, and medicine. Practical applications adapted to needs of the individual student. (PR: Completion of Core II Composition Requirement)
Pre-req: ENG 201 with a minimum grade of C or ENG 200H with a minimum grade of C or ENG 201H with a minimum grade of C.
Grade Mode: Normal Grading Mode

ENG 355 Intro to Critical Theory **3 Credit hours**
An examination of the principles and methods of a range of major critical theories, emphasizing how their application affects textual interpretation.
Pre-req: ENG 350 with a minimum grade of C.
Grade Mode: Normal Grading Mode

ENG 360 Intro Creative Writing **3 Credit hours**
An introduction to writing of fiction, poetry, and creative nonfiction. (PR: Completion of Core II composition requirement)
Pre-req: ENG 201 with a minimum grade of C or ENG 200H with a minimum grade of C or ENG 201H with a minimum grade of C.
Grade Mode: Normal Grading Mode

ENG 377 Creative Writing Poetry **3 Credit hours**
Practice in writing poetry. Practice in writing poetry.
Pre-req: ENG 360 with a minimum grade of C.
Grade Mode: Normal Grading Mode

ENG 378 Creative Writing Fiction **3 Credit hours**
Practice in writing fiction. Practice in writing fiction.
Pre-req: ENG 360 with a minimum grade of C.
Grade Mode: Normal Grading Mode

ENG 379 Creative Writing: Nonfiction **3 Credit hours**
Practice in writing creative nonfiction.
Pre-req: ENG 360 with a minimum grade of C.
Grade Mode: Normal Grading Mode

ENG 402 Comp & Rhet Preservice Teacher **3 Credit hours**
Study of rhetorical invention and models of the composing process, with intensive practice in writing. Study of rhetorical invention and models of the composing process, with intensive practice in writing.
Pre-req: ENG 350 with a minimum grade of C and Admitted to Teacher ED with a score of 4.
Grade Mode: Normal Grading Mode

ENG 405 History English Language **3 Credit hours**
The phonology, spelling, grammar, syntax, and vocabulary of previous language periods as background to Modern English. The phonology, spelling, grammar, syntax, and vocabulary of previous language periods as background to Modern English.
Pre-req: ENG 350.
Grade Mode: Normal Grading Mode

ENG 407 Writing, Editing & Doc Design **3 Credit hours**
Study of the principles and practices of professional writing, editing, and document design.
Pre-req: ENG 204 with a minimum grade of C or ENG 350 with a minimum grade of C or ENG 354 with a minimum grade of C.
Grade Mode: Normal Grading Mode

ENG 408 Writing in the Digital World **3 Credit hours**
Development of writing skills and strategies with an emphasis on digital texts and genres. (PR: Completion of Core II composition requirement)
Pre-req: ENG 201 with a minimum grade of C or ENG 201H with a minimum grade of C or ENG 200H with a minimum grade of C.
Attributes: Digital Humanities
Grade Mode: Normal Grading Mode

ENG 409 Milton **3 Credit hours**
Biographical and critical study, including Milton's English poetry and prose, and his literary and intellectual milieu. (PR: any 200-level or 300-level ENG course EXCEPT 200, 204, 205, 314, or 354; or permission of chair)
Pre-req: ENG 203 with a minimum grade of C or ENG 206 with a minimum grade of C or ENG 207 with a minimum grade of C or ENG 209 with a minimum grade of C or ENG 210 with a minimum grade of C or ENG 211 with a minimum grade of C or ENG 212 with a minimum grade of C or ENG 213 with a minimum grade of C or ENG 214 with a minimum grade of C or ENG 215 with a minimum grade of C or ENG 220 with a minimum grade of C or ENG 221 with a minimum grade of C or ENG 225 with a minimum grade of C or ENG 231 with a minimum grade of C or ENG 232 with a minimum grade of C or ENG 235 with a minimum grade of C or ENG 236 with a minimum grade of C or ENG 240 with a minimum grade of C or ENG 241 with a minimum grade of C or ENG 242 with a minimum grade of C or ENG 263 with a minimum grade of C or ENG 344 with a minimum grade of C or ENG 350 with a minimum grade of C or ENG 360 with a minimum grade of C.
Attributes: Literature
Grade Mode: Normal Grading Mode

ENG 410 Shaks Comedy Tragedy & Rom **3 Credit hours**
Intensive study of Shakespeare's comedies, tragicomedies, and late romances. Also includes the Sonnets and Venus and Adonis. (PR: Any 200-level or 300-level ENG course EXCEPT 200, 204, 205, 314, or 354; or permission of chair)
Pre-req: ENG 203 with a minimum grade of C or ENG 206 with a minimum grade of C or ENG 207 with a minimum grade of C or ENG 209 with a minimum grade of C or ENG 210 with a minimum grade of C or ENG 211 with a minimum grade of C or ENG 212 with a minimum grade of C or ENG 213 with a minimum grade of C or ENG 214 with a minimum grade of C or ENG 215 with a minimum grade of C or ENG 220 with a minimum grade of C or ENG 221 with a minimum grade of C or ENG 225 with a minimum grade of C or ENG 231 with a minimum grade of C or ENG 232 with a minimum grade of C or ENG 235 with a minimum grade of C or ENG 236 with a minimum grade of C or ENG 240 with a minimum grade of C or ENG 241 with a minimum grade of C or ENG 242 with a minimum grade of C or ENG 263 with a minimum grade of C or ENG 344 with a minimum grade of C or ENG 350 with a minimum grade of C or ENG 360 with a minimum grade of C.
Attributes: Literature
Grade Mode: Normal Grading Mode

ENG 411 Chaucer **3 Credit hours**

The poetry of Chaucer, chiefly the Canterbury Tales, in the light of medieval tradition and critical analysis. (PR: any 200-level or 300-level ENG course EXCEPT 200, 204, 205, 314, or 354; or permission of chair)

Pre-req: ENG 203 with a minimum grade of C or ENG 206 with a minimum grade of C or ENG 207 with a minimum grade of C or ENG 209 with a minimum grade of C or ENG 210 with a minimum grade of C or ENG 211 with a minimum grade of C or ENG 212 with a minimum grade of C or ENG 213 with a minimum grade of C or ENG 214 with a minimum grade of C or ENG 215 with a minimum grade of C or ENG 220 with a minimum grade of C or ENG 221 with a minimum grade of C or ENG 225 with a minimum grade of C or ENG 231 with a minimum grade of C or ENG 232 with a minimum grade of C or ENG 235 with a minimum grade of C or ENG 236 with a minimum grade of C or ENG 240 with a minimum grade of C or ENG 241 with a minimum grade of C or ENG 242 with a minimum grade of C or ENG 263 with a minimum grade of C or ENG 344 with a minimum grade of C or ENG 350 with a minimum grade of C or ENG 360 with a minimum grade of C.

Attributes: Literature

Grade Mode: Normal Grading Mode

ENG 412 Shaks Hist & Tragedies **3 Credit hours**

Intensive study of Shakespeare's histories and tragedies. (PR: any 200-level or 300-level ENG course EXCEPT 200, 204, 205, 314, or 354; or permission of chair)

Pre-req: ENG 203 with a minimum grade of C or ENG 206 with a minimum grade of C or ENG 207 with a minimum grade of C or ENG 209 with a minimum grade of C or ENG 210 with a minimum grade of C or ENG 211 with a minimum grade of C or ENG 212 with a minimum grade of C or ENG 213 with a minimum grade of C or ENG 214 with a minimum grade of C or ENG 215 with a minimum grade of C or ENG 220 with a minimum grade of C or ENG 221 with a minimum grade of C or ENG 225 with a minimum grade of C or ENG 231 with a minimum grade of C or ENG 232 with a minimum grade of C or ENG 235 with a minimum grade of C or ENG 236 with a minimum grade of C or ENG 240 with a minimum grade of C or ENG 241 with a minimum grade of C or ENG 242 with a minimum grade of C or ENG 263 with a minimum grade of C or ENG 344 with a minimum grade of C or ENG 350 with a minimum grade of C or ENG 360 with a minimum grade of C.

Attributes: Literature

Grade Mode: Normal Grading Mode

ENG 414 19th C British Novel **3 Credit hours**

Austen, Scott, the Brontes, Gaskell, Dickens, Hardy, Schreiner, and others.

Pre-req: ENG 203 with a minimum grade of C or ENG 206 with a minimum grade of C or ENG 207 with a minimum grade of C or ENG 209 with a minimum grade of C or ENG 210 with a minimum grade of C or ENG 211 with a minimum grade of C or ENG 212 with a minimum grade of C or ENG 213 with a minimum grade of C or ENG 214 with a minimum grade of C or ENG 215 with a minimum grade of C or ENG 220 with a minimum grade of C or ENG 221 with a minimum grade of C or ENG 225 with a minimum grade of C or ENG 231 with a minimum grade of C or ENG 232 with a minimum grade of C or ENG 235 with a minimum grade of C or ENG 236 with a minimum grade of C or ENG 240 with a minimum grade of C or ENG 241 with a minimum grade of C or ENG 242 with a minimum grade of C or ENG 263 with a minimum grade of C or ENG 344 with a minimum grade of C or ENG 350 with a minimum grade of C or ENG 360 with a minimum grade of C.

Attributes: Literature

Grade Mode: Normal Grading Mode

ENG 415 Victorian Poetry **3 Credit hours**

Tennyson, Browning, Arnold, and others.(PR: any 200-level or 300-level ENG course EXCEPT 200, 204, 205, 314, or 354; or permission of chair)

Pre-req: ENG 203 with a minimum grade of C or ENG 206 with a minimum grade of C or ENG 207 with a minimum grade of C or ENG 209 with a minimum grade of C or ENG 210 with a minimum grade of C or ENG 211 with a minimum grade of C or ENG 212 with a minimum grade of C or ENG 213 with a minimum grade of C or ENG 214 with a minimum grade of C or ENG 215 with a minimum grade of C or ENG 220 with a minimum grade of C or ENG 221 with a minimum grade of C or ENG 225 with a minimum grade of C or ENG 231 with a minimum grade of C or ENG 232 with a minimum grade of C or ENG 235 with a minimum grade of C or ENG 236 with a minimum grade of C or ENG 240 with a minimum grade of C or ENG 241 with a minimum grade of C or ENG 242 with a minimum grade of C or ENG 263 with a minimum grade of C or ENG 344 with a minimum grade of C or ENG 350 with a minimum grade of C or ENG 360 with a minimum grade of C.

Attributes: Literature

Grade Mode: Normal Grading Mode

ENG 416 Victorian Nonfiction **3 Credit hours**

Essays, speeches, treatises, and other works from Britain's Victorian age. Includes such authors as Arnold, Carlyle, Darwin, Huxley, Eliot, Martineau, Mill, Newman, and others.(PR: any 200-level or 300-level ENG course EXCEPT 200, 204, 205, 314, or 354; or permission of chair)

Pre-req: ENG 203 with a minimum grade of C or ENG 206 with a minimum grade of C or ENG 207 with a minimum grade of C or ENG 209 with a minimum grade of C or ENG 210 with a minimum grade of C or ENG 211 with a minimum grade of C or ENG 212 with a minimum grade of C or ENG 213 with a minimum grade of C or ENG 214 with a minimum grade of C or ENG 215 with a minimum grade of C or ENG 220 with a minimum grade of C or ENG 221 with a minimum grade of C or ENG 225 with a minimum grade of C or ENG 231 with a minimum grade of C or ENG 232 with a minimum grade of C or ENG 235 with a minimum grade of C or ENG 236 with a minimum grade of C or ENG 240 with a minimum grade of C or ENG 241 with a minimum grade of C or ENG 242 with a minimum grade of C or ENG 263 with a minimum grade of C or ENG 344 with a minimum grade of C or ENG 350 with a minimum grade of C or ENG 360 with a minimum grade of C.

Attributes: Literature

Grade Mode: Normal Grading Mode

ENG 418 Addiction Literature **3 Credit hours**

Study of literature that explores addiction as a primary theme. Genres may include memoir and autobiography, fiction, poetry, graphic narratives, video, and digital-born texts. (PR: any 200-level or 300-level ENG course EXCEPT 200, 204, 205, 314, or 354; or permission of chair)

Pre-req: ENG 203 with a minimum grade of C or ENG 206 with a minimum grade of C or ENG 207 with a minimum grade of C or ENG 209 with a minimum grade of C or ENG 210 with a minimum grade of C or ENG 211 with a minimum grade of C or ENG 212 with a minimum grade of C or ENG 213 with a minimum grade of C or ENG 214 with a minimum grade of C or ENG 215 with a minimum grade of C or ENG 220 with a minimum grade of C or ENG 221 with a minimum grade of C or ENG 225 with a minimum grade of C or ENG 231 with a minimum grade of C or ENG 232 with a minimum grade of C or ENG 235 with a minimum grade of C or ENG 236 with a minimum grade of C or ENG 240 with a minimum grade of C or ENG 241 with a minimum grade of C or ENG 242 with a minimum grade of C or ENG 263 with a minimum grade of C or ENG 344 with a minimum grade of C or ENG 350 with a minimum grade of C or ENG 360 with a minimum grade of C.

Grade Mode: Normal Grading Mode

ENG 419 Approaches Teach Lit **3 Credit hours**

The intensive study of the pedagogy of literature and literary critical theory and its classroom applications. The intensive study of the pedagogy of literature and literary critical theory and its classroom applications.

Pre-req: ENG 350 with a minimum grade of C and Admitted to Teacher ED with a score of 4 and (ENG 410 with a minimum grade of C or ENG 412 with a minimum grade of C).

Grade Mode: Normal Grading Mode

ENG 421 American Lit to 1830 **3 Credit hours**

Study of American literature of the Puritan, Colonial, and Federal periods, including such authors as Jonathan Edwards, Edward Taylor, Benjamin Franklin, Phillis Wheatley, Anne Bradstreet, Washington Irving, and James Fenimore Cooper. (PR: any 200-level or 300-level ENG course EXCEPT 200, 204, 205, 314, or 354; or permission of chair)

Pre-req: ENG 203 with a minimum grade of C or ENG 206 with a minimum grade of C or ENG 207 with a minimum grade of C or ENG 209 with a minimum grade of C or ENG 210 with a minimum grade of C or ENG 211 with a minimum grade of C or ENG 212 with a minimum grade of C or ENG 213 with a minimum grade of C or ENG 214 with a minimum grade of C or ENG 215 with a minimum grade of C or ENG 220 with a minimum grade of C or ENG 221 with a minimum grade of C or ENG 225 with a minimum grade of C or ENG 231 with a minimum grade of C or ENG 232 with a minimum grade of C or ENG 235 with a minimum grade of C or ENG 236 with a minimum grade of C or ENG 240 with a minimum grade of C or ENG 241 with a minimum grade of C or ENG 242 with a minimum grade of C or ENG 263 with a minimum grade of C or ENG 344 with a minimum grade of C or ENG 350 with a minimum grade of C or ENG 360 with a minimum grade of C.

Attributes: Literature

Grade Mode: Normal Grading Mode

ENG 422 American Lit 1830-1865 **3 Credit hours**

American literature of the Romantic period, including such authors as Emerson, Douglass, Poe, Melville, Hawthorne, Whitman, Dickinson, and lesser figures of the period. (PR: any 200-level or 300-level ENG course EXCEPT 200, 204, 205, 314, or 354; or permission of chair)

Pre-req: ENG 203 with a minimum grade of C or ENG 206 with a minimum grade of C or ENG 207 with a minimum grade of C or ENG 209 with a minimum grade of C or ENG 210 with a minimum grade of C or ENG 211 with a minimum grade of C or ENG 212 with a minimum grade of C or ENG 213 with a minimum grade of C or ENG 214 with a minimum grade of C or ENG 215 with a minimum grade of C or ENG 220 with a minimum grade of C or ENG 221 with a minimum grade of C or ENG 225 with a minimum grade of C or ENG 231 with a minimum grade of C or ENG 232 with a minimum grade of C or ENG 235 with a minimum grade of C or ENG 236 with a minimum grade of C or ENG 240 with a minimum grade of C or ENG 241 with a minimum grade of C or ENG 242 with a minimum grade of C or ENG 263 with a minimum grade of C or ENG 344 with a minimum grade of C or ENG 350 with a minimum grade of C or ENG 360 with a minimum grade of C.

Attributes: Literature

Grade Mode: Normal Grading Mode

ENG 423 American Lit 1865-1914 **3 Credit hours**

American literature of the Realistic and Naturalistic periods, including such authors as Howells, Crane, Twain, James, Chopin, Dreiser, Chesnutt,and Wharton. (PR: any 200-level or 300-level ENG course EXCEPT 200, 204, 205, 314, or 354; or permission of chair)

Pre-req: ENG 203 with a minimum grade of C or ENG 206 with a minimum grade of C or ENG 207 with a minimum grade of C or ENG 209 with a minimum grade of C or ENG 210 with a minimum grade of C or ENG 211 with a minimum grade of C or ENG 212 with a minimum grade of C or ENG 213 with a minimum grade of C or ENG 214 with a minimum grade of C or ENG 215 with a minimum grade of C or ENG 220 with a minimum grade of C or ENG 221 with a minimum grade of C or ENG 225 with a minimum grade of C or ENG 231 with a minimum grade of C or ENG 232 with a minimum grade of C or ENG 235 with a minimum grade of C or ENG 236 with a minimum grade of C or ENG 240 with a minimum grade of C or ENG 241 with a minimum grade of C or ENG 242 with a minimum grade of C or ENG 263 with a minimum grade of C or ENG 344 with a minimum grade of C or ENG 350 with a minimum grade of C or ENG 360 with a minimum grade of C.

Attributes: Literature

Grade Mode: Normal Grading Mode

ENG 424 American Literature after 1914 **3 Credit hours**

American literature after 1914, including such authors as Faulkner, Hemingway, Cather, Carver, Vonnegut, Morrison, and others. (PR: any 200-level or 300-level ENG course EXCEPT 200, 204, 205, 314, or 354; or permission of chair)

Pre-req: ENG 203 with a minimum grade of C or ENG 206 with a minimum grade of C or ENG 207 with a minimum grade of C or ENG 209 with a minimum grade of C or ENG 210 with a minimum grade of C or ENG 211 with a minimum grade of C or ENG 212 with a minimum grade of C or ENG 213 with a minimum grade of C or ENG 214 with a minimum grade of C or ENG 215 with a minimum grade of C or ENG 220 with a minimum grade of C or ENG 221 with a minimum grade of C or ENG 225 with a minimum grade of C or ENG 231 with a minimum grade of C or ENG 232 with a minimum grade of C or ENG 235 with a minimum grade of C or ENG 236 with a minimum grade of C or ENG 240 with a minimum grade of C or ENG 241 with a minimum grade of C or ENG 242 with a minimum grade of C or ENG 263 with a minimum grade of C or ENG 344 with a minimum grade of C or ENG 350 with a minimum grade of C or ENG 360 with a minimum grade of C.

Attributes: Literature

Grade Mode: Normal Grading Mode

ENG 426 Appalachian Lit & Theory **3 Credit hours**

Appalachian Literature and Theory conducts an in-depth study of aspects of Appalachian culture and literature through the lens of select literary and social theories such as multiculturalism, feminism, or post-colonialism.

Pre-req: ENG 203 with a minimum grade of C or ENG 206 with a minimum grade of C or ENG 207 with a minimum grade of C or ENG 209 with a minimum grade of C or ENG 210 with a minimum grade of C or ENG 211 with a minimum grade of C or ENG 212 with a minimum grade of C or ENG 213 with a minimum grade of C or ENG 214 with a minimum grade of C or ENG 215 with a minimum grade of C or ENG 220 with a minimum grade of C or ENG 221 with a minimum grade of C or ENG 225 with a minimum grade of C or ENG 231 with a minimum grade of C or ENG 232 with a minimum grade of C or ENG 235 with a minimum grade of C or ENG 236 with a minimum grade of C or ENG 240 with a minimum grade of C or ENG 241 with a minimum grade of C or ENG 242 with a minimum grade of C or ENG 263 with a minimum grade of C or ENG 344 with a minimum grade of C or ENG 350 with a minimum grade of C or ENG 360 with a minimum grade of C.

Attributes: Literature

Grade Mode: Normal Grading Mode

ENG 427 Studies in Authors or Genre **3 Credit hours**

Survey includes works by Wyatt, Philip and Mary Sidney, Spenser, Elizabeth I, Nashe, Marlowe, Raleigh, Anne Cecil, Lyly, Isabella Whitney, and Shakespeare, excluding drama. (PR: any 200-level or 300-level ENG course EXCEPT 200, 204, 205, 314, or 354; or permission of chair)

Pre-req: ENG 203 with a minimum grade of C or ENG 206 with a minimum grade of C or ENG 207 with a minimum grade of C or ENG 209 with a minimum grade of C or ENG 210 with a minimum grade of C or ENG 211 with a minimum grade of C or ENG 212 with a minimum grade of C or ENG 213 with a minimum grade of C or ENG 214 with a minimum grade of C or ENG 215 with a minimum grade of C or ENG 220 with a minimum grade of C or ENG 221 with a minimum grade of C or ENG 225 with a minimum grade of C or ENG 231 with a minimum grade of C or ENG 232 with a minimum grade of C or ENG 235 with a minimum grade of C or ENG 236 with a minimum grade of C or ENG 240 with a minimum grade of C or ENG 241 with a minimum grade of C or ENG 242 with a minimum grade of C or ENG 263 with a minimum grade of C or ENG 344 with a minimum grade of C or ENG 350 with a minimum grade of C or ENG 360 with a minimum grade of C.

Attributes: Literature

Grade Mode: Normal Grading Mode

ENG 428 International Literature **3 Credit hours**
Readings in contemporary literature from the non-Anglo-European world. Texts will be taken from Asian, African, South American, Australian, and other authors. (PR: any 200-level or 300-level ENG course EXCEPT 200, 204, 205, 314, or 354; or permission of chair)
Pre-req: ENG 203 with a minimum grade of C or ENG 206 with a minimum grade of C or ENG 207 with a minimum grade of C or ENG 209 with a minimum grade of C or ENG 210 with a minimum grade of C or ENG 211 with a minimum grade of C or ENG 212 with a minimum grade of C or ENG 213 with a minimum grade of C or ENG 214 with a minimum grade of C or ENG 215 with a minimum grade of C or ENG 220 with a minimum grade of C or ENG 221 with a minimum grade of C or ENG 225 with a minimum grade of C or ENG 231 with a minimum grade of C or ENG 232 with a minimum grade of C or ENG 235 with a minimum grade of C or ENG 236 with a minimum grade of C or ENG 240 with a minimum grade of C or ENG 241 with a minimum grade of C or ENG 242 with a minimum grade of C or ENG 263 with a minimum grade of C or ENG 344 with a minimum grade of C or ENG 350 with a minimum grade of C or ENG 360 with a minimum grade of C.
Attributes: International, Literature
Grade Mode: Normal Grading Mode

ENG 429 Multicultural Identities (MC) **3 Credit hours**
Intensive exploration of multicultural identities in texts. Topics may vary. May be repeated up to 6 hrs. with permission of chair. (PR: any 200-level or 300-level ENG course EXCEPT 200, 204, 205, 314, or 354; or permission of chair)
Pre-req: ENG 203 with a minimum grade of C or ENG 206 with a minimum grade of C or ENG 207 with a minimum grade of C or ENG 209 with a minimum grade of C or ENG 210 with a minimum grade of C or ENG 211 with a minimum grade of C or ENG 212 with a minimum grade of C or ENG 213 with a minimum grade of C or ENG 214 with a minimum grade of C or ENG 215 with a minimum grade of C or ENG 220 with a minimum grade of C or ENG 221 with a minimum grade of C or ENG 225 with a minimum grade of C or ENG 231 with a minimum grade of C or ENG 232 with a minimum grade of C or ENG 235 with a minimum grade of C or ENG 236 with a minimum grade of C or ENG 240 with a minimum grade of C or ENG 241 with a minimum grade of C or ENG 242 with a minimum grade of C or ENG 263 with a minimum grade of C or ENG 344 with a minimum grade of C or ENG 350 with a minimum grade of C or ENG 360 with a minimum grade of C.
Attributes: Multicultural
Grade Mode: Normal Grading Mode

ENG 430 Young Adult Literature **3 Credit hours**
Examines literature written for adolescents and young adults, with a focus on coming of age and the formation of identity. (PR: any 200-level or 300-level ENG course EXCEPT 200, 204, 205, 314, or 354; or permission of chair)
Pre-req: ENG 203 with a minimum grade of C or ENG 206 with a minimum grade of C or ENG 207 with a minimum grade of C or ENG 209 with a minimum grade of C or ENG 210 with a minimum grade of C or ENG 211 with a minimum grade of C or ENG 212 with a minimum grade of C or ENG 213 with a minimum grade of C or ENG 214 with a minimum grade of C or ENG 215 with a minimum grade of C or ENG 220 with a minimum grade of C or ENG 221 with a minimum grade of C or ENG 225 with a minimum grade of C or ENG 231 with a minimum grade of C or ENG 232 with a minimum grade of C or ENG 235 with a minimum grade of C or ENG 236 with a minimum grade of C or ENG 240 with a minimum grade of C or ENG 241 with a minimum grade of C or ENG 242 with a minimum grade of C or ENG 263 with a minimum grade of C or ENG 344 with a minimum grade of C or ENG 350 with a minimum grade of C or ENG 360 with a minimum grade of C.
Attributes: Literature, Multicultural
Grade Mode: Normal Grading Mode

ENG 431 Writing for Non-Profits **3 Credit hours**
This foundational course will explore the goals and strategies specific to writing for non-profit organizations. Students will read, analyze, and practice the real world writing tasks that non-profits require. (Completion of Core II Composition Requirement)
Pre-req: ENG 201 with a minimum grade of C or ENG 201H with a minimum grade of C or ENG 200H with a minimum grade of C.
Grade Mode: Normal Grading Mode

ENG 432 Contemporary Literature **3 Credit hours**
Examines literature of the present, its influences, and the increasing diversification of cultural/textual production, including cinema, video, comix/manga, videogames, and blogs. (PR: any 200-level or 300-level ENG course EXCEPT 200, 204, 205, 314, or 354; or permission of chair)
Pre-req: ENG 203 with a minimum grade of C or ENG 206 with a minimum grade of C or ENG 207 with a minimum grade of C or ENG 209 with a minimum grade of C or ENG 210 with a minimum grade of C or ENG 211 with a minimum grade of C or ENG 212 with a minimum grade of C or ENG 213 with a minimum grade of C or ENG 214 with a minimum grade of C or ENG 215 with a minimum grade of C or ENG 220 with a minimum grade of C or ENG 221 with a minimum grade of C or ENG 225 with a minimum grade of C or ENG 231 with a minimum grade of C or ENG 232 with a minimum grade of C or ENG 235 with a minimum grade of C or ENG 236 with a minimum grade of C or ENG 240 with a minimum grade of C or ENG 241 with a minimum grade of C or ENG 242 with a minimum grade of C or ENG 263 with a minimum grade of C or ENG 344 with a minimum grade of C or ENG 350 with a minimum grade of C or ENG 360 with a minimum grade of C.
Attributes: Literature
Grade Mode: Normal Grading Mode

ENG 433 20th C Brit & Irish Poetry **3 Credit hours**
Principal poetry since the Victorian period. (PR: any 200-level or 300-level ENG course EXCEPT 200, 204, 205, 314, or 354; or permission of chair)
Pre-req: ENG 203 with a minimum grade of C or ENG 206 with a minimum grade of C or ENG 207 with a minimum grade of C or ENG 209 with a minimum grade of C or ENG 210 with a minimum grade of C or ENG 211 with a minimum grade of C or ENG 212 with a minimum grade of C or ENG 213 with a minimum grade of C or ENG 214 with a minimum grade of C or ENG 215 with a minimum grade of C or ENG 220 with a minimum grade of C or ENG 221 with a minimum grade of C or ENG 225 with a minimum grade of C or ENG 231 with a minimum grade of C or ENG 232 with a minimum grade of C or ENG 235 with a minimum grade of C or ENG 236 with a minimum grade of C or ENG 240 with a minimum grade of C or ENG 241 with a minimum grade of C or ENG 242 with a minimum grade of C or ENG 263 with a minimum grade of C or ENG 344 with a minimum grade of C or ENG 350 with a minimum grade of C or ENG 360 with a minimum grade of C.
Attributes: Literature
Grade Mode: Normal Grading Mode

ENG 434 20th C American Poetry **3 Credit hours**
Principal poetry since 1900. (PR: any 200-level or 300-level ENG course EXCEPT 200, 204, 205, 314, or 354; or permission of chair)
Pre-req: ENG 203 with a minimum grade of C or ENG 206 with a minimum grade of C or ENG 207 with a minimum grade of C or ENG 209 with a minimum grade of C or ENG 210 with a minimum grade of C or ENG 211 with a minimum grade of C or ENG 212 with a minimum grade of C or ENG 213 with a minimum grade of C or ENG 214 with a minimum grade of C or ENG 215 with a minimum grade of C or ENG 220 with a minimum grade of C or ENG 221 with a minimum grade of C or ENG 225 with a minimum grade of C or ENG 231 with a minimum grade of C or ENG 232 with a minimum grade of C or ENG 235 with a minimum grade of C or ENG 236 with a minimum grade of C or ENG 240 with a minimum grade of C or ENG 241 with a minimum grade of C or ENG 242 with a minimum grade of C or ENG 263 with a minimum grade of C or ENG 344 with a minimum grade of C or ENG 350 with a minimum grade of C or ENG 360 with a minimum grade of C.
Attributes: Literature
Grade Mode: Normal Grading Mode

ENG 435 Modernism **3 Credit hours**
Examines literary modernism and the artistic, cultural, and historical contexts of that movement. (PR: any 200-level or 300-level ENG course EXCEPT 200, 204, 205, 314, or 354; or permission of chair)
Pre-req: ENG 203 with a minimum grade of C or ENG 206 with a minimum grade of C or ENG 207 with a minimum grade of C or ENG 209 with a minimum grade of C or ENG 210 with a minimum grade of C or ENG 211 with a minimum grade of C or ENG 212 with a minimum grade of C or ENG 213 with a minimum grade of C or ENG 214 with a minimum grade of C or ENG 215 with a minimum grade of C or ENG 220 with a minimum grade of C or ENG 221 with a minimum grade of C or ENG 225 with a minimum grade of C or ENG 231 with a minimum grade of C or ENG 232 with a minimum grade of C or ENG 235 with a minimum grade of C or ENG 236 with a minimum grade of C or ENG 240 with a minimum grade of C or ENG 241 with a minimum grade of C or ENG 242 with a minimum grade of C or ENG 263 with a minimum grade of C or ENG 344 with a minimum grade of C or ENG 350 with a minimum grade of C or ENG 360 with a minimum grade of C.
Attributes: Literature
Grade Mode: Normal Grading Mode

ENG 436 Medieval British Lit **3 Credit hours**
Old English elegiac and heroic poetry; Middle English lyrics and romances; the Ricardian poets and Malory. (PR: any 200-level or 300-level ENG course EXCEPT 200, 204, 205, 314, or 354; or permission of chair)
Pre-req: ENG 203 with a minimum grade of C or ENG 206 with a minimum grade of C or ENG 207 with a minimum grade of C or ENG 209 with a minimum grade of C or ENG 210 with a minimum grade of C or ENG 211 with a minimum grade of C or ENG 212 with a minimum grade of C or ENG 213 with a minimum grade of C or ENG 214 with a minimum grade of C or ENG 215 with a minimum grade of C or ENG 220 with a minimum grade of C or ENG 221 with a minimum grade of C or ENG 225 with a minimum grade of C or ENG 231 with a minimum grade of C or ENG 232 with a minimum grade of C or ENG 235 with a minimum grade of C or ENG 236 with a minimum grade of C or ENG 240 with a minimum grade of C or ENG 241 with a minimum grade of C or ENG 242 with a minimum grade of C or ENG 263 with a minimum grade of C or ENG 344 with a minimum grade of C or ENG 350 with a minimum grade of C or ENG 360 with a minimum grade of C.
Attributes: Literature
Grade Mode: Normal Grading Mode

ENG 439 Professional Writing Theory **3 Credit hours**
Study of the major questions and theories relevant to professional writing.
Pre-req: ENG 314 with a minimum grade of C.
Grade Mode: Normal Grading Mode

ENG 440 Selected Topics in Film **3 Credit hours**
Intensive study of a specific theme or genre. Topics will vary. May be repeated up to 6 hrs. with permission of chair.
Pre-req: ENG 350 with a minimum grade of C or ENG 344 with a minimum grade of C or ENG 232 with a minimum grade of C.
Attributes: Literature
Grade Mode: Normal Grading Mode

ENG 442 Gender and Sexuality in Film **3 Credit hours**
Exploration of evolving portrayals of gender roles and sexualities throughout film history and across film genres.
Pre-req: (ENG 350 with a minimum grade of C or ENG 344 with a minimum grade of C or ENG 232 with a minimum grade of C or WS 101 with a minimum grade of C) and (ENG 201 with a minimum grade of C or ENG 201H with a minimum grade of C or ENG 200H with a minimum grade of C).
Attributes: Literature
Grade Mode: Normal Grading Mode

ENG 445 Screenwriting **3 Credit hours**
Practice in writing screenplays.
Pre-req: ENG 201 with a minimum grade of C or ENG 200H with a minimum grade of C or ENG 201H with a minimum grade of C and (ENG 344 or ENG 360 or ART 219 or THE 201).
Attributes: Literature
Grade Mode: Normal Grading Mode

ENG 447 British Romantic Poets **3 Credit hours**
Emphasis on Blake, Wordsworth, Coleridge, Byron, Shelley, and Keats. (PR: any 200-level or 300-level ENG course EXCEPT 200, 204, 205, 314, or 354; or permission of chair)
Pre-req: ENG 203 with a minimum grade of C or ENG 206 with a minimum grade of C or ENG 207 with a minimum grade of C or ENG 209 with a minimum grade of C or ENG 210 with a minimum grade of C or ENG 211 with a minimum grade of C or ENG 212 with a minimum grade of C or ENG 213 with a minimum grade of C or ENG 214 with a minimum grade of C or ENG 215 with a minimum grade of C or ENG 220 with a minimum grade of C or ENG 221 with a minimum grade of C or ENG 225 with a minimum grade of C or ENG 231 with a minimum grade of C or ENG 232 with a minimum grade of C or ENG 235 with a minimum grade of C or ENG 236 with a minimum grade of C or ENG 240 with a minimum grade of C or ENG 241 with a minimum grade of C or ENG 242 with a minimum grade of C or ENG 263 with a minimum grade of C or ENG 344 with a minimum grade of C or ENG 350 with a minimum grade of C or ENG 360 with a minimum grade of C.
Attributes: Literature
Grade Mode: Normal Grading Mode

ENG 450 World Lit to Renaissance **3 Credit hours**
Major works (excluding English), with emphasis on Homer, the Greek Drama, Virgil, Dante, and Cervantes.(PR: any 200-level or 300-level ENG course EXCEPT 200, 204, 205, 314, or 354; or permission of chair)
Pre-req: ENG 203 with a minimum grade of C or ENG 206 with a minimum grade of C or ENG 207 with a minimum grade of C or ENG 209 with a minimum grade of C or ENG 210 with a minimum grade of C or ENG 211 with a minimum grade of C or ENG 212 with a minimum grade of C or ENG 213 with a minimum grade of C or ENG 214 with a minimum grade of C or ENG 215 with a minimum grade of C or ENG 220 with a minimum grade of C or ENG 221 with a minimum grade of C or ENG 225 with a minimum grade of C or ENG 231 with a minimum grade of C or ENG 232 with a minimum grade of C or ENG 235 with a minimum grade of C or ENG 236 with a minimum grade of C or ENG 240 with a minimum grade of C or ENG 241 with a minimum grade of C or ENG 242 with a minimum grade of C or ENG 263 with a minimum grade of C or ENG 344 with a minimum grade of C or ENG 350 with a minimum grade of C or ENG 360 with a minimum grade of C.
Attributes: Literature
Grade Mode: Normal Grading Mode

ENG 451 World Lit Since Renaissance **3 Credit hours**
Major works (excluding English and American), with emphasis on Racine, Moliere, Goethe, and principal continental fiction. (PR: any 200-level or 300-level ENG course EXCEPT 200, 204, 205, 314, or 354; or permission of chair)
Pre-req: ENG 203 with a minimum grade of C or ENG 206 with a minimum grade of C or ENG 207 with a minimum grade of C or ENG 209 with a minimum grade of C or ENG 210 with a minimum grade of C or ENG 211 with a minimum grade of C or ENG 212 with a minimum grade of C or ENG 213 with a minimum grade of C or ENG 214 with a minimum grade of C or ENG 215 with a minimum grade of C or ENG 220 with a minimum grade of C or ENG 221 with a minimum grade of C or ENG 225 with a minimum grade of C or ENG 231 with a minimum grade of C or ENG 232 with a minimum grade of C or ENG 235 with a minimum grade of C or ENG 236 with a minimum grade of C or ENG 240 with a minimum grade of C or ENG 241 with a minimum grade of C or ENG 242 with a minimum grade of C or ENG 263 with a minimum grade of C or ENG 344 with a minimum grade of C or ENG 350 with a minimum grade of C or ENG 360 with a minimum grade of C.
Attributes: Literature
Grade Mode: Normal Grading Mode

ENG 455 Advanced Critical Theory **3 Credit hours**
Intensive study of specific theorists, theoretical schools, or history of literary theory, including application to texts. Topics will vary. May be repeated up to 6 hrs. with permission of chair.
Pre-req: ENG 355 with a minimum grade of C.
Attributes: Literature
Grade Mode: Normal Grading Mode

ENG 460 Comp Writing Center Theory **4 Credit hours**
Introduces students to the study of teaching writing in a classroom setting and in one-to-one tutoring.
Pre-req: ENG 350.
Grade Mode: Normal Grading Mode

ENG 466 Literacy Studies **3 Credit hours**
Theories of writing and reading development with a focus on cultural, linguistic, and rhetorical influences on literacy acquisition. (Completion of Core II Composition Requirement)
Pre-req: ENG 201 with a minimum grade of C or ENG 201H with a minimum grade of C or ENG 200H with a minimum grade of C.
Attributes: Multicultural
Grade Mode: Normal Grading Mode

ENG 467 Visual Rhetoric **3 Credit hours**
Study of the production, strategies, reception, and persuasive effects of visual texts. (Completion of Core II Composition Requirement)
Pre-req: ENG 201 with a minimum grade of C or ENG 201H with a minimum grade of C or ENG 200H with a minimum grade of C.
Grade Mode: Normal Grading Mode

ENG 469 Teaching Creative Writing **3 Credit hours**
Pedagogy and practice for students who plan to teach Creative Writing at the primary, secondary, or college level.
Pre-req: ENG 350 with a minimum grade of C and ENG 360 with a minimum grade of C.
Attributes: Literature
Grade Mode: Normal Grading Mode

ENG 470 Form/Theory: Creative Writing **3 Credit hours**
Readings in creative writing illustrating formal and theoretical concerns. Readings will also be applied to student writing.
Pre-req: ENG 350 with a minimum grade of C and ENG 360 with a minimum grade of C.
Attributes: Literature
Grade Mode: Normal Grading Mode

ENG 475 Intro to Linguistics **3 Credit hours**
The structural and descriptive approach to study of the English language. (Completion of Core II Composition Requirement)
Pre-req: ENG 201 with a minimum grade of C or ENG 200H with a minimum grade of C or ENG 201H with a minimum grade of C.
Grade Mode: Normal Grading Mode

ENG 476 Structures of English Language **3 Credit hours**
Study of the structures of English grammar, including how these structures relate to punctuation, language acquisition, dialect variation, and the history of English. (Completion of Core II Composition Requirement)
Pre-req: ENG 201 with a minimum grade of C or ENG 200H with a minimum grade of C or ENG 201H with a minimum grade of C.
Grade Mode: Normal Grading Mode

ENG 478 Intro to Sociolinguistics **3 Credit hours**
Sociolinguistics is the study of the effects of language in society, relevant to discourse practices, language attitudes variations, shifts, and changes. (Completion of Core II Composition Requirement)
Pre-req: ENG 201 with a minimum grade of C or ENG 200H with a minimum grade of C or ENG 201H with a minimum grade of C.
Grade Mode: Normal Grading Mode

ENG 480 Special Topics **1-4 Credit hours**
Pre-req: ENG 350.
Grade Mode: Normal Grading Mode

ENG 481 Special Topics **1-4 Credit hours**
Pre-req: ENG 350.
Grade Mode: Normal Grading Mode

ENG 482 Special Topics **1-4 Credit hours**
Pre-req: ENG 350.
Grade Mode: Normal Grading Mode

ENG 483 Special Topics **1-4 Credit hours**
Pre-req: ENG 350.
Grade Mode: Normal Grading Mode

ENG 485 Independent Study **1-4 Credit hours**
Pre-req: ENG 350.
Grade Mode: Normal Grading Mode

ENG 486 Independent Study **1-4 Credit hours**
Pre-req: ENG 350.
Grade Mode: Normal Grading Mode

ENG 487 Independent Study **1-4 Credit hours**
Pre-req: ENG 350.
Grade Mode: Normal Grading Mode

ENG 488 Independent Study **1-4 Credit hours**
Pre-req: ENG 350.
Grade Mode: Normal Grading Mode

ENG 490 Internship **3 Credit hours**
A supervised internship. The student works for a local firm/agency to gain practical experience in the major. Arranged by student and department. Supervised by firm. A supervised internship. The student works for a local firm/agency to gain practical experience in the major. Arranged by student and department. Supervised by firm.
Attributes: No Textbook Required
Grade Mode: Credit/No Credit Grade Only

ENG 491 Poetry Workshop **3 Credit hours**
A practical and intensive class in exploring the varieties of creative expression; exercises on the creating of verse in different forms and styles. A practical and intensive class in exploring the varieties of creative expression; exercises on the creating of verse in different forms and styles.
Pre-req: ENG 377 with a minimum grade of C.
Grade Mode: Normal Grading Mode

ENG 492 Fiction Workshop **3 Credit hours**
Offers students a forum for presentation, discussion, and refinement of their work, either short stories or novels. Offers students a forum for presentation, discussion, and refinement of their work, either short stories or novels.
Pre-req: ENG 378 with a minimum grade of C.
Grade Mode: Normal Grading Mode

ENG 493 Creative Nonfiction **3 Credit hours**
A writing workshop where students develop and refine their original creative nonfiction (memoir, biography, essays, travel/leisure writing, etc.), employing techniques typically reserved for fiction (dialogue, narrative, poetic language, etc.).
Pre-req: ENG 379 with a minimum grade of C.
Grade Mode: Normal Grading Mode

ENG 499 Senior Capstone **3 Credit hours**
An intensive examination of topics relevant to advanced English studies. Provides capstone experience through substantial scholarly, creative, and/or pedagogical composition and presentation. (PR: ENG 350, ENG 355, and 12 hours of 400-level English coursework at C or better; or permission of chair)
Pre-req: ENG 350 with a minimum grade of C and (ENG 355 with a minimum grade of C or ENG 439 with a minimum grade of C).
Attributes: Capstone Course
Grade Mode: Normal Grading Mode

Faculty

Professors
Burbery, Carey, Hong, Hood, R. Peckham, Riemer, Schray, Viola, Young

Associate Professors
Aftanas, Brewster, Damai, Ellison, J. Peckham, Prejean, Squire, Tigchelaar, Treftz

Assistant Professors
Angus, Hancock, Henning, Marshall, O'Malley, Thurman

Instructors
Diehl, Hassib, Holmes, Jones, Lawrence, LeFevers, Lewis, Lumpkin, Magnusson, Monk, Nolte, Normandin, Oudghiri-Otmani, Peterson, Pleska, Rinehart, Rollins, Roth, Rucker, Shirzadian, Walker

Creative Writing, B.A.

- General Education Course

- Milestone course: a key success marker for your major. See your advisor to discuss the importance of this course in your plan of study.

Major

The Core Curriculum is designed to foster critical thinking skills and introduce students to basic domains of thinking that transcend disciplines. The Core applies to all majors. Information on specific classes in the Core can be found at https://www.marshall.edu/gened/.

Code	Title	Credit Hours
Core Curriculum		
Core 1: Critical Thinking		
FYS 100	First Yr Sem Critical Thinking	3
MTH 121	Concepts and Applications (CT)	3
Critical Thinking Course		3
Core 2		
ENG 101	Beginning Composition	3
ENG 201	Advanced Composition	3
CMM 103	Fund Speech-Communication	3
MTH 121	Concepts and Applications (CT)	3
Core II Natural/Physical Science		4
Core II Humanities		3
ENG 200	Texting the World(CT) (recommended)	
Core II Social Science (Milestone course)		3
Core II Fine Arts		3
Additional University Requirements		
ENG Writing Intensive		
ENG Writing Intensive		
Multicultural or International		
ENG 499	Senior Capstone (not offered in summer)	3
College-Specific		
Foreign Language 101		3
Foreign Language 102		3
Foreign Language 203		3
Foreign Language 204		3
COLA Humanities		3
COLA Literature		3
COLA Literature		3
COLA Social Science		3
COLA Social Science		3
COLA Social Science		3
COLA Natural/Physical Science		4
COLA International		3
COLA Multicultural		3
Major-Specific		
ENG 350	Intro to Textual Analysis (must be taken within the first 9 hours of coursework within the major)	3
ENG 355	Intro to Critical Theory (not offered in summer)	3
ENG 360	Intro Creative Writing	3
ENG 499	Senior Capstone (not offered in summer)	3
Contemporary Literature		3
Choose one of the following:		
ENG 424	American Literature after 1914	
ENG 432	Contemporary Literature	
ENG 433	20th C Brit & Irish Poetry	
ENG 434	20th C American Poetry	
ENG 480	Special Topics	
ENG 481	Special Topics	
ENG 482	Special Topics	
ENG 483	Special Topics	
ENG 485	Independent Study	
ENG 486	Independent Study	
ENG 487	Independent Study	
ENG 488	Independent Study	
ENG Level 400 Literature Elective		
Select one of the following:		3
ENG 409	Milton	
ENG 410	Shaks Comedy Tragedy & Rom	
ENG 411	Chaucer	
ENG 412	Shaks Hist & Tragedies	
ENG 414	19th C British Novel	
ENG 415	Victorian Poetry	
ENG 416	Victorian Nonfiction	
ENG 418	Addiction Literature	
ENG 421	American Lit to 1830	
ENG 422	American Lit 1830-1865	
ENG 423	American Lit 1865-1914	
ENG 424	American Literature after 1914	
ENG 427	Studies in Authors or Genre	
ENG 428	International Literature	
ENG 430	Young Adult Literature	
ENG 432	Contemporary Literature	
ENG 433	20th C Brit & Irish Poetry	
ENG 434	20th C American Poetry	
ENG 435	Modernism	
ENG 436	Medieval British Lit	
ENG 440	Selected Topics in Film	
ENG 442	Gender and Sexuality in Film	
ENG 447	British Romantic Poets	
ENG 450	World Lit to Renaissance	
ENG 451	World Lit Since Renaissance	
ENG 455	Advanced Critical Theory	
ENG 469	Teaching Creative Writing	
ENG 470	Form/Theory: Creative Writing	
ENG 480	Special Topics	
ENG 481	Special Topics	
ENG 482	Special Topics	
ENG 483	Special Topics	
ENG 485	Independent Study (when so designated by Chair)	
ENG 486	Independent Study (when so designated by Chair)	
ENG 487	Independent Study (when so designated by Chair)	

ENG 488	Independent Study (when so designated by Chair)	
Creative Writing Sequence		
Choose 6 hours from the following, and then 3 hours in an additional genre:		9
Poetry:		
ENG 377	Creative Writing Poetry	
ENG 491	Poetry Workshop	
Fiction:		
ENG 378	Creative Writing Fiction	
ENG 492	Fiction Workshop	
Creative Nonfiction:		
ENG 379	Creative Writing: Nonfiction	
ENG 493	Creative Nonfiction	
ENG 469	Teaching Creative Writing	3
or ENG 470	Form/Theory: Creative Writing	
English Electives (choose from any 200-, 300-, or 400-level ENG class)		6
Free Elective		
Free Elective		3
Free Elective		3
Free Elective		3
Free Elective		3
Free Elective		3
Free Elective		1

Major Information

- The total number of free electives will depend on the amount of double and triple counting of requirements. Core II and COLA requirements may not be double counted.
- See course attributes each semester for courses that meet multiple requirements.
- Questions about requirements should be directed to your English Department advisor (304-696-6600) or to the College of Liberal Arts (304-696-2350).
- Students must earn a *C* or better in ENG 201 Advanced Composition, all ENG courses for the major, and all foreign language courses.
- Forty-eight credit hours (sixteen 3-hour courses) must be at the 300/400 level.
- Minimum of 120 hours to graduate.
- No more than six hours of ENG courses at the 200-level may count toward the BA degree in English. No credit hours in ENG with a grade lower than *C* may count toward the BA degree in ENG.
- Creative Writing majors who carefully select courses can earn a double major in Literary Studies by taking only 4 additional Literary Studies classes. Meet with your advisor to plan your choices!

- General Education Course

- Milestone course: a key success marker for your major. See your advisor to discuss the importance of this course in your plan of study.

Four Year Plan

A Creative Writing degree can give you the critical thinking, writing, and presentation skills you'll need for success in this quick and quickly-changing world. Our program is flexible, so you can pursue a wide range of interests. Our courses give you the ability to think differently, to expand on and augment the ideas and work made in all fields, not just literature. Where you go from here is up to you (though we've got some ideas for you). But our courses are designed to hone not just your writing, but your thinking skills, too. Our faculty and staff are dedicated. All this to say, really, we plan on preparing you for a successful professional life as well as an invaluable way of thinking, about everything.

Course	Title	Credit Hours
First Year		
First Semester		
ENG 101	Beginning Composition	3
FYS 100	First Yr Sem Critical Thinking	3
Core II Social Science		3
COLA Social Science (Milestone course)		3
CMM 103	Fund Speech-Communication	3
UNI 100	Freshman First Class	1
	Credit Hours	**16**
Second Semester		
Core II Humanities		3
ENG 200	Texting the World(CT) (recommended)	
ENG 201	Advanced Composition	3
Core I Critical Thinking		3
MTH 121	Concepts and Applications (CT)	3
Core II Fine Arts		3
	Credit Hours	**15**
Second Year		
First Semester		
ENG 350	Intro to Textual Analysis	3
Core II Physical/Natural Science		4
Foreign Language 101		3
ENG 360	Intro Creative Writing	3
Multicultural or International		3
	Credit Hours	**16**
Second Semester		
ENG 355	Intro to Critical Theory	3
COLA Social Science		3
COLA International		3
Foreign Language 102		3
ENG Creative Writing Sequence		3
	Credit Hours	**15**
Third Year		
First Semester		
ENG Level 400 Literature		3
Select one of the following: [1]		3
ENG 469	Teaching Creative Writing	
Free Elective		
Free Elective		3
ENG Creative Writing Sequence		3

Foreign Language 203		3
	Credit Hours	**15**
Second Semester		
ENG Creative Writing Sequence		3
COLA Physical/Natural Science		4
COLA Social Science		3
Foreign Language 204		3
Select one of the following: [2]		3
Free Elective		
ENG 470	Form/Theory: Creative Writing	
	Credit Hours	**16**
Fourth Year		
First Semester		
ENG English Elective		3
ENG Contemporary Literature		3
COLA Multicultural		3
COLA Humanities		3
Free Elective		3
	Credit Hours	**15**
Second Semester		
ENG 499	Senior Capstone (C)	3
ENG English Elective		3
Free Elective		3
Free Elective		3
	Credit Hours	**12**
	Total Credit Hours	**120**

[1] Free Elective if taking ENG 470 Form/Theory: Creative Writing in Spring

[2] ENG 470 Form/Theory: Creative Writing if ENG 469 Teaching Creative Writing wasn't taken in Fall

Creative Writing, Minor

A minor in Creative Writing requires 15 hours in English beyond ENG 201 Advanced Composition or ENG 201H English Comp Honors, as follows:

Code	Title	Credit Hours
ENG 360	Intro Creative Writing	3
Select two of the following:		6
ENG 377	Creative Writing Poetry	
ENG 378	Creative Writing Fiction	
ENG 379	Creative Writing: Nonfiction	
ENG 491	Poetry Workshop	
ENG 492	Fiction Workshop	
ENG 493	Creative Nonfiction	
Additional ENG coursework		6
Total Credit Hours		**15**

English (Generalist), B.A. Major

The Core Curriculum is designed to foster critical thinking skills and introduce students to basic domains of thinking that transcend disciplines. The Core applies to all majors. Information on specific classes in the Core can be found at https://www.marshall.edu/gened/.

Code	Title	Credit Hours
Core Curriculum		
Core I Critical Thinking		
FYS 100	First Yr Sem Critical Thinking	3
MTH 121	Concepts and Applications (CT)	3
Critical Thinking Course		3
Core II		
ENG 101	Beginning Composition	3
ENG 201	Advanced Composition	3
CMM 103	Fund Speech-Communication	3
MTH 121	Concepts and Applications (CT)	3
Core II Natural/Physical Science		4
Core II Humanities		3
ENG 200	Texting the World(CT) (recommended)	
Core II Social Science (Milestone course)		3
Core II Fine Arts		3
Additional University Requirements		
ENG Writing Intensive		3
ENG Writing Intensive		3
Multicultural or International		3
ENG 499	Senior Capstone (not offered in summer)	3
College-Specific		
Foreign Language 101		3
Foreign Language 102		3
Foreign Language 203		3
Foreign Language 204		3
COLA Humanities		3
COLA Literature		3
COLA Literature		3
COLA Social Science		3
COLA Social Science		3
COLA Social Science		3
COLA Natural/Physical Science		4
COLA International		3
COLA Multicultural		3
Major-Specific		
ENG 350	Intro to Textual Analysis (must be taken within the first 9 hours of coursework within the major)	3
ENG 355	Intro to Critical Theory (not offered in summer)	3
ENG 499	Senior Capstone (not offered in summer)	3
English Electives		27

Major Information

- The total number of free electives will depend on the amount of double and triple counting of requirements. Core II and COLA requirements may not be double counted.
- See course attributes each semester for courses that meet multiple requirements.
- Questions about requirements should be directed to your English Department advisor (304-696-6600) or to the College of Liberal Arts (304-696-2350).
- Forty-eight credit hours (sixteen 3-hour courses) must be at the 300/400 level.
- Students must earn a *C* or better in ENG 201 Advanced Composition, all ENG courses for the major, and all foreign language courses.
- Minimum of 120 hours to graduate.
- English majors will fulfill the university's requirements for WI classes by taking the ENG classes required for the major.

- General Education Course

- Milestone course: a key success marker for your major. See your advisor to discuss the importance of this course in your plan of study.

Four Year Plan

An English degree can give you the critical thinking, writing, and presentation skills you'll need for success in this quick and quickly-changing world. Our program is flexible, so you can pursue a wide range of interests. Our courses give you the ability to think differently, to expand on and augment the ideas and work made in all fields, not just literature. Where you go from here is up to you (though we've got some ideas for you). But our courses are designed to hone not just your writing, but your thinking skills, too. Our faculty and staff are dedicated. All this to say, really, we plan on preparing you for a successful professional life as well as an invaluable way of thinking, about everything.

Course	Title	Credit Hours
First Year		
First Semester		
ENG 101	Beginning Composition	3
FYS 100	First Yr Sem Critical Thinking	3
Core II Social Science		3
COLA Social Science (Milestone course)		3
CMM 103	Fund Speech-Communication	3
UNI 100	Freshman First Class	1
	Credit Hours	**16**
Second Semester		
Core II Humanities		3
ENG 200	Texting the World(CT) (recommended)	
ENG 201	Advanced Composition	3
Core I Critical Thinking		3
MTH 121	Concepts and Applications (CT)	3
Core II Fine Arts		3
	Credit Hours	**15**
Second Year		
First Semester		
ENG 350	Intro to Textual Analysis	3
Core II Physical/Natural Science		4
Foreign Language 101		3
ENG Elective (3/400 level)		3
Multicultural or International		3
	Credit Hours	**16**
Second Semester		
ENG 355	Intro to Critical Theory	3
ENG Elective 3/400 level		3
COLA International		3
COLA Physical/Natural Science		4
Foreign Language 102		3
	Credit Hours	**16**
Third Year		
First Semester		
ENG Elective (3/400 Level)		3
ENG Elective (400 level)		3
COLA Social Science		3
Foreign Language 203		3
Free Elective		3
	Credit Hours	**15**
Second Semester		
ENG Elective (400-level)		3
ENG Elective (400-level)		3
Foreign Language 204		3
COLA Social Science		3
Free Elective		3
	Credit Hours	**15**
Fourth Year		
First Semester		
ENG English elective (400-level)		3
ENG Elective		3
COLA Multicultural		3
COLA Humanities		3
Free Elective		3
	Credit Hours	**15**
Second Semester		
ENG 499	Senior Capstone (C)	3
ENG English elective		3
Free elective		3
Free Elective		3
	Credit Hours	**12**
	Total Credit Hours	**120**

English Education 5-Adult Teaching Specialization

Please see the College of Education and Professional Development (p. 424) section.

English, Minor

A minor in English requires 15 hours in English beyond ENG 201 Advanced Composition or ENG 201H English Comp Honors, with no more than six hours on the 200 level.

Literary Studies, B.A.

- General Education Course

- Milestone course: a key success marker for your major. See your advisor to discuss the importance of this course in your plan of study.

Major

The Core Curriculum is designed to foster critical thinking skills and introduce students to basic domains of thinking that transcend disciplines. The Core applies to all majors. Information on specific classes in the Core can be found at https://www.marshall.edu/gened/.

Code	Title	Credit Hours
Core Curriculum		
Core 1: Critical Thinking		
FYS 100	First Yr Sem Critical Thinking	3
MTH 121	Concepts and Applications (CT)	3
Critical Thinking Course		3
Core 2		
ENG 101	Beginning Composition	3
ENG 201	Advanced Composition	3
CMM 103	Fund Speech-Communication	3
MTH 121	Concepts and Applications (CT)	3
Core II Natural/Physical Science		4
Core II Humanities		3
ENG 200	Texting the World(CT) (recommended)	
Core II Social Science		3
Core II Fine Arts		3
Additional University Requirements		
ENG Writing Intensive		3
ENG Writing Intensive		3
Multicultural or International		3
ENG 499	Senior Capstone (not offered in summer)	3
College-Specific		
Foreign Language 101		3
Foreign Language 102		3
Foreign Language 203		3
Foreign Language 204		3
COLA Humanities		3
COLA Literature		3
COLA Literature		3
COLA Social Science		3
COLA Social Science		3
COLA Social Science		3
COLA Natural/Physical Science		4
COLA International		3
COLA Multicultural		3
Major-Specific		
ENG 350	Intro to Textual Analysis (must be taken within the first 9 hours of coursework within the major)	3
ENG 355	Intro to Critical Theory (not offered in summer)	3
ENG 499	Senior Capstone (not offered in summer)	3
Pre-1800 British Literature; choose from		3
ENG 409	Milton (Choose from:)	
ENG 410	Shaks Comedy Tragedy & Rom	
ENG 411	Chaucer	
ENG 412	Shaks Hist & Tragedies	
ENG 436	Medieval British Lit	
Pre-1914 American Literature; choose from:		3
ENG 421	American Lit to 1830	
ENG 422	American Lit 1830-1865	
ENG 423	American Lit 1865-1914	
Individual Author; choose from:		3
ENG 409	Milton	
ENG 410	Shaks Comedy Tragedy & Rom	
ENG 411	Chaucer	
ENG 412	Shaks Hist & Tragedies	
ENG 427	Studies in Authors or Genre	
Literary Studies Electives; choose from:		*15*
ENG 200	Texting the World(CT)	
ENG 200H	Texting the World (CT)	
ENG 203	Appalachian Literature	
ENG 206	Good Plays	
ENG 207	Good Essays	
ENG 209	Literature of Fantasy	
ENG 210	Autobiography	
ENG 211	Science Fiction	
ENG 212	Sports Literature	
ENG 213	Good Poems	
ENG 214	Intro to Comics	
ENG 215	Good Novels	
ENG 220	The Political Novel	
ENG 221	Postcolonial Literature	
ENG 225	Southern Literature	
ENG 231	Good Stories	
ENG 232	Good Films	
ENG 235	Crime and Sensation Literature	
ENG 236	Forbidden Literature	
ENG 240	African American Literatures	
ENG 241	Multicultural Literatures	
ENG 242	Women Writers	
ENG 263	Intro Digital Literary Studies	
ENG 280	Special Topics (when so designated by Chair)	
ENG 281	Special Topics (when so designated by Chair)	
ENG 282	Special Topics (when so designated by Chair)	
ENG 283	Special Topics (when so designated by Chair)	
ENG 344	Introduction to Film Studies	
ENG 409	Milton	

ENG 410	Shaks Comedy Tragedy & Rom	
ENG 411	Chaucer	
ENG 412	Shaks Hist & Tragedies	
ENG 414	19th C British Novel	
ENG 415	Victorian Poetry	
ENG 416	Victorian Nonfiction	
ENG 418	Addiction Literature	
ENG 421	American Lit to 1830	
ENG 422	American Lit 1830-1865	
ENG 423	American Lit 1865-1914	
ENG 424	American Literature after 1914	
ENG 427	Studies in Authors or Genre	
ENG 428	International Literature	
ENG 429	Multicultural Identities (MC)	
ENG 430	Young Adult Literature	
ENG 432	Contemporary Literature	
ENG 433	20th C Brit & Irish Poetry	
ENG 434	20th C American Poetry	
ENG 435	Modernism	
ENG 436	Medieval British Lit	
ENG 440	Selected Topics in Film	
ENG 442	Gender and Sexuality in Film	
ENG 447	British Romantic Poets	
ENG 450	World Lit to Renaissance	
ENG 451	World Lit Since Renaissance	
ENG 455	Advanced Critical Theory	
ENG 469	Teaching Creative Writing	
ENG 470	Form/Theory: Creative Writing	
ENG 480	Special Topics (when so designated by the chair)	
ENG 481	Special Topics (when so designated by the chair)	
ENG 482	Special Topics (when so designated by the chair)	
ENG 483	Special Topics (when so designated by the chair)	
ENG 485	Independent Study (when so designated by the chair)	
ENG 486	Independent Study (when so designated by chair)	
ENG 487	Independent Study (when so designated by chair)	
ENG 488	Independent Study (when so designated by chair)	
English Elective (choose from any 200-, 300-, or 400-level ENG class)		3
Free Elective		3
Free Elective		3
Free Elective		3
Free Elective		3
Free Elective		3
Free Elective		1

Major Information

- The total number of free electives will depend on the amount of double and triple counting of requirements. Core II and COLA requirements may not be double counted.
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- Questions about requirements should be directed to your English Department advisor (304-696-6600) or to the College of Liberal Arts (304-696-2350).
- Forty-eight credit hours (sixteen 3-hour courses) must be at the 300/400 level.
- Students must earn a *C* or better in ENG 201 Advanced Composition, all ENG courses for the major, and all foreign language courses.
- Minimum of 120 hours to graduate.
- No more than six hours of 200-level may count toward the BA degree in Literary Studies.
- Literary Studies majors who carefully select courses can earn a double major in Creative Writing by taking only 4 additional Creative Writing classes. Meet with your advisor to plan your choices.

- General Education Course

- Milestone course: a key success marker for your major. See your advisor to discuss the importance of this course in your plan of study.

Four Year Plan

A Literary Studies degree can give you the critical thinking, writing, and presentation skills you'll need for success in this quick and quickly-changing world. Our program is flexible, so you can pursue a wide range of interests. Our courses give you the ability to think differently, to expand on and augment the ideas and work made in all fields, not just literature. Where you go from here is up to you (though we've got some ideas for you). But our courses are designed to hone not just your writing, but your thinking skills, too. Our faculty and staff are dedicated. All this to say, really, we plan on preparing you for a successful professional life as well as an invaluable way of thinking, about everything.

Course	Title	Credit Hours
First Year		
First Semester		
ENG 101	Beginning Composition	3
FYS 100	First Yr Sem Critical Thinking	3
Core II Social Science		3
COLA Social Science		3
CMM 103	Fund Speech-Communication	3
UNI 100	Freshman First Class	1
	Credit Hours	**16**
Second Semester		
Core II Humanities		3
ENG 200	Texting the World(CT) (recommended)	
ENG 201	Advanced Composition	3
Core I Critical Thinking		3
MTH 121	Concepts and Applications (CT)	3
Core II Fine Arts		3
	Credit Hours	**15**

Second Year		
First Semester		
ENG 350	Intro to Textual Analysis	3
Core II Physical/Natural Science		4
Foreign Language 101		3
ENG COLA Literature: Literary Studies		3
ENG COLA Literature: Literary Studies		3
	Credit Hours	**16**
Second Semester		
ENG 355	Intro to Critical Theory	3
COLA Humanities		3
ENG Literary Studies (400)		3
Foreign Language 102		3
COLA Physical/Natural Science		4
	Credit Hours	**16**
Third Year		
First Semester		
Select one of the following Pre-1914 American Literature courses:		3
ENG 421	American Lit to 1830	
ENG 422	American Lit 1830-1865	
ENG 423	American Lit 1865-1914	
Select one of the following Individual Author courses:		3
ENG 409	Milton	
ENG 410	Shaks Comedy Tragedy & Rom	
ENG 411	Chaucer	
ENG 412	Shaks Hist & Tragedies	
ENG 427	Studies in Authors or Genre	
COLA Social Science		3
Foreign Language 203		3
ENG Literary Studies (300/400)		3
	Credit Hours	**15**
Second Semester		
ENG Literary Studies (300/400)		3
Select one of the following Pre-1800 British Literature courses:		3
ENG 409	Milton	
ENG 410	Shaks Comedy Tragedy & Rom	
ENG 411	Chaucer	
ENG 412	Shaks Hist & Tragedies	
ENG 436	Medieval British Lit	
COLA Social Science		3
Foreign Language 204		3
Free Elective		3
	Credit Hours	**15**
Fourth Year		
First Semester		
ENG English Elective (300/400)		3
COLA International		3
COLA Multicultural		3
Free Elective		3
Free Elective		3
	Credit Hours	**15**
Second Semester		
ENG 499	Senior Capstone (C)	3
Multicultural/International		3
Free Elective		3
Free Elective		3
	Credit Hours	**12**
	Total Credit Hours	**120**

Professional Writing, B.A.

The B.A. in Professional Writing program at Marshall University prepares students for a variety of writing careers using multiple media and digital tools. Working professionals require a range of writing skills that cross all fields and disciplines. They must write with clarity, purpose, and a solid understanding of their audience. This takes training, and our goal in the Department of English at Marshall University is to prepare students to delve into every writing challenge with confidence and savvy. We teach students to work with a wide range of documents, such as proposals, business plans, and reports, while also composing within digital environments for a variety of purposes. Professional writers can specialize in technology, science, health care, journalism, fund development, any given trade, or all of these things and more to build a portfolio and a busy career.

- General Education Course

- Milestone course: a key success marker for your major. See your advisor to discuss the importance of this course in your plan of study.

Major

The Core Curriculum is designed to foster critical thinking skills and introduce students to basic domains of thinking that transcend disciplines. The Core applies to all majors. Information on specific classes in the Core can be found at https://www.marshall.edu/gened/.

Code	Title	Credit Hours
Core Curriculum		
Core I Critical Thinking		
FYS 100	First Yr Sem Critical Thinking	3
MTH 121	Concepts and Applications (CT)	3
Critical Thinking Course		3
Core II		
ENG 101	Beginning Composition	3
ENG 201	Advanced Composition	3
CMM 103	Fund Speech-Communication	3
MTH 121	Concepts and Applications (CT)	3
Core II Natural/Physical Science		4
Core II Humanities		3
ENG 200	Texting the World(CT) (recommended)	
Core II Social Science		3
Core II Fine Arts		3
Additional University Requirements		
ENG Writing Intensive		3

ENG Writing Intensive		3
Multicultural or International		3
ENG 499	Senior Capstone (not offered in summer)	3
College-Specific		
Foreign Language 101		3
Foreign Language 102		3
Foreign Language 203		3
Foreign Language 204		3
COLA Humanities		3
COLA Literature		3
COLA Literature		3
COLA Social Science		3
COLA Social Science		3
COLA Social Science		3
COLA Natural/Physical Science		4
COLA International		3
COLA Multicultural		3
Major-Specific		
ENG 350	Intro to Textual Analysis (must be taken within the first 9 hours of coursework within the major)	3
ENG 439	Professional Writing Theory	3
ENG 499	Senior Capstone (not offered in summer)	3
Required Introductory Course		
ENG 314	Intro to Professional Writing	3
Professionalization Courses		
Select two of the following:		
ENG 407	Writing, Editing & Doc Design	
ENG 408	Writing in the Digital World	
ENG 431	Writing for Non-Profits	
Specialist Courses		
Select three of the following:		
ENG 204	Writing for the Workplace	
ENG 263	Intro Digital Literary Studies	
ENG 354	Scientific & Tech Writing	
ENG 467	Visual Rhetoric	
ENG 476	Structures of English Language	
ENG 490	Internship	
English Electives		9
Select any 200-, 300-, or 400-level ENG classes		

Major Information

- The total number of free electives will depend on the amount of double and triple counting of requirements. Core II and COLA requirements may not be double counted.
- See course attributes each semester for courses that meet multiple requirements.
- Questions about requirements should be directed to your English Department advisor (304-696-6600) or to the College of Liberal Arts (304-696-2350).
- Forty-eight credit hours (sixteen 3-hour courses) must be at the 300/400 level.
- Students must earn a *C* or better in ENG 201 Advanced Composition, all ENG courses for the major, and all foreign language courses.
- Minimum of 120 hours to graduate.
- English majors will fulfill the university's requirements for WI classes by taking the ENG classes required for the major.

- General Education Course

- Milestone course: a key success marker for your major. See your advisor to discuss the importance of this course in your plan of study.

Course	Title	Credit Hours
First Year		
First Semester		
ENG 101	Beginning Composition	3
FYS 100	First Yr Sem Critical Thinking	3
Core II Social Science		3
COLA Social Science		3
CMM 103	Fund Speech-Communication	3
UNI 100	Freshman First Class	1
	Credit Hours	**16**
Second Semester		
Core II Humanities (ENG 200 recommended)		3
ENG 201	Advanced Composition	3
Core I Critical Thinking		3
MTH 121	Concepts and Applications (CT)	3
Core II Fine Arts		3
	Credit Hours	**15**
Second Year		
First Semester		
ENG 350	Intro to Textual Analysis	3
Core II Physical and Natural Science		4
Foreign Language 101		3
ENG 314	Intro to Professional Writing	3
Multicultural or International		3
	Credit Hours	**16**
Second Semester		
ENG Professionalization Course 1		3
COLA Social Science		3
COLA International		3
Foreign Language 102		3
Free Elective		3
	Credit Hours	**15**
Third Year		
First Semester		
ENG Specialist Course 1		3
ENG Professionalization Course 2		3
ENG Elective		3
Foreign Language 203		3
Free Elective		3
	Credit Hours	**15**
Second Semester		
ENG Specialist Course 2		3
ENG 439	Professional Writing Theory	3

COLA Physical or Natural Science		4
COLA Social Science		3
Foreign Language 204		3
	Credit Hours	**16**
Fourth Year		
First Semester		
ENG Elective		3
COLA Multicultural		3
ENG 490	Internship	3
COLA Humanities		3
Free Elective		3
	Credit Hours	**15**
Second Semester		
ENG 499	Senior Capstone	3
ENG Elective		3
Free Elective		3
Free Elective		3
	Credit Hours	**12**
	Total Credit Hours	**120**

Professional Writing, Minor

A minor in Professional Writing requires 15 hours in English beyond ENG 201 Advanced Composition or ENG 201H English Comp Honors, as follows:

Code	Title	Credit Hours
ENG 314	Intro to Professional Writing	3
Select three of the following:		9
ENG 204	Writing for the Workplace	
ENG 354	Scientific & Tech Writing	
ENG 407	Writing, Editing & Doc Design	
ENG 408	Writing in the Digital World	
ENG 431	Writing for Non-Profits	
ENG 439	Professional Writing Theory	
ENG 467	Visual Rhetoric	
ENG 476	Structures of English Language	
Additional ENG coursework		3
Total Credit Hours		**15**

Department of Finance, Economics and International Business

Contacts: Dr. Shaorong Zhang, Chair, Department of Finance, Economics and International Business, zhangs@marshall.edu

The Division of Finance and Economics, housed in the College of Business, offers College of Liberal Arts students the option to earn a B.A. in Economics. This option gives students an opportunity to develop their ability to analyze economic problems and issues (e.g., unemployment, inflation, economic growth and development, government taxation and spending policies, environmental degradation and protection, the distribution of income and wealth, international trading, and financial arrangements). Students will, in the process, deepen their understanding of the U.S. economy and other economies around the world.

Programs

- Economics, B.A. (p. 273)
- Economics, Minor (p. 274)

Courses

- General Education Course

ECN 200 Survey of Economics **3 Credit hours**
Major emphasis given to microeconomic topics such as supply and demand, market structure, and international trade. Macroeconomic concepts and aggregate supply-aggregate demand model are examined. (Not open to students in the College of Business or to students who have completed ECN 250) Major emphasis given to microeconomic topics such as supply and demand, market structure, and international trade. Macroeconomic concepts and aggregate supply-aggregate demand model are examined. (Not open to students in the College of Business or to students who have completed ECN 250)
Grade Mode: Normal Grading Mode

ECN 250 Principles Microeconomics **3 Credit hours**
Principles of scarcity, opportunity cost, and supply and demand are developed along with price and wage determination in the marketplace. International trade and policy problems are also examined. Principles of scarcity, opportunity cost, and supply and demand are developed along with price and wage determination in the marketplace. International trade and policy problems are also examined.
Grade Mode: Normal Grading Mode

ECN 253 Principles Macroeconomics **3 Credit hours**
Introduction to the workings of the national economy. Focuses on the forces driving economic growth, inflation, unemployment, and the country's international economic relations. Introduction to the workings of the national economy. Focuses on the forces driving economic growth, inflation, unemployment, and the country's international economic relations.
Pre-req: ECN 250 with a minimum grade of D or ECN 200 with a minimum grade of D.
Grade Mode: Normal Grading Mode

ECN 280 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

ECN 301 Quantitative Methods ECN/FIN **3 Credit hours**
Application of mathematical and statistical methods in Economics and Finance.
Pre-req: ECN 250 with a minimum grade of D and ECN 253 with a minimum grade of D.
Grade Mode: Normal Grading Mode

ECN 302 Health Economics **3 Credit hours**
A study of the health care market and health policy using the economic concepts of demand-supply, individual choice, uncertainty, asymmetric information and moral hazard.
Pre-req: ECN 250 with a minimum grade of D and ECN 253 with a minimum grade of D.
Grade Mode: Normal Grading Mode

ECN 310 Money and Banking **3 Credit hours**
Money, credit and credit institutions in the United States; monetary, fiscal, and banking functions of the Federal Reserve System.
Pre-req: ECN 250 with a minimum grade of D and ECN 253 with a minimum grade of D.
Attributes: American Institutions
Grade Mode: Normal Grading Mode

ECN 326 Int Macroeconomic Analys **3 Credit hours**
Advanced study of the national economy as a whole. The main topics focused on are: economic growth, unemployment, inflation, international monetary and financial relations, and macroeconomic policy activity. Advanced study of the national economy as a whole. The main topics focused on are: economic growth, unemployment, inflation, international monetary and financial relations, and macroeconomic policy activity.
Pre-req: ECN 250 with a minimum grade of D and ECN 253 with a minimum grade of D.
Attributes: American Institutions
Grade Mode: Normal Grading Mode

ECN 328 Int Microeconomic Analys **3 Credit hours**
Microeconomics theories of the production and pricing of goods and services, payments to the factors of production.
Pre-req: ECN 250 with a minimum grade of D and ECN 253 with a minimum grade of D.
Grade Mode: Normal Grading Mode

ECN 405 Environmental Economics **3 Credit hours**
An application of basic economic theory to a consideration of a wide range of environmental problems including pollution, natural resource exhaustion, population and economic growth.
Pre-req: ECN 250 with a minimum grade of D.
Grade Mode: Normal Grading Mode

ECN 408 Comparative Econ Systems **3 Credit hours**
Marxism, capitalism, communism, facism ad socialism considered as theories, movements and actual political economies.
Pre-req: ECN 250 with a minimum grade of D and ECN 253 with a minimum grade of D.
Attributes: International
Grade Mode: Normal Grading Mode

ECN 415 Regional Economics **3 Credit hours**
A study of location theory and regional development within a framework of economic theory. A study of location theory and regional development within a framework of economic theory.
Pre-req: ECN 250 with a minimum grade of D and ECN 253 with a minimum grade of D.
Attributes: American Institutions, Social Sciences
Grade Mode: Normal Grading Mode

ECN 420 International Trade **3 Credit hours**
An introduction to the basic microeconomic models explaining the reasons for and the effects of trade among nations, trade restrictions and regional trading arrangements. An introduction to the basic microeconomic models explaining the reasons for and the effects of trade among nations, trade restrictions and regional trading arrangements.
Pre-req: ECN 250 with a minimum grade of D and ECN 253 with a minimum grade of D.
Attributes: International
Grade Mode: Normal Grading Mode

ECN 421 Global Macroeconomic Analysis **3 Credit hours**
Current topics in international monetary relations, and how countries use macroeconomic policy to influence their performance in the global economy, and how global events influence country performance. Emphasis upon applications.
Pre-req: ECN 253 with a minimum grade of D.
Attributes: International
Grade Mode: Normal Grading Mode

ECN 423 Intro to Econometrics **3 Credit hours**
Combines economic theory with real data to obtain quantitative results for purposes of explanation and prediction. The development of useful economic models applicable to present day world problems.
Pre-req: (MGT 218 with a minimum grade of D or MGT 318 with a minimum grade of D or MTH 225 with a minimum grade of D or STA 225 with a minimum grade of D or IST 130 with a minimum grade of D or EDF 417 with a minimum grade of D or PSY 223 with a minimum grade of D or SOC 345 with a minimum grade of D) and ECN 253 with a minimum grade of D.
Grade Mode: Normal Grading Mode

ECN 456 Labor Economics **3 Credit hours**
Theoretical and empirical analysis of labor markets, wage determination, hours of work, unemployment and inflation, unions and collective bargaining and related subjects in their social and legal contexts.
Pre-req: ECN 250 with a minimum grade of D.
Attributes: American Institutions, Social Sciences
Grade Mode: Normal Grading Mode

ECN 460 Economic of Dev Countries **3 Credit hours**
Introduction to developing nations in the world economy. Focus on their economic characteristics, current economic problems, and policy issues. Interactions between the world economy and country performance.
Pre-req: ECN 250 with a minimum grade of D and ECN 253 with a minimum grade of D.
Attributes: International
Grade Mode: Normal Grading Mode

ECN 466 Economics Workshop **3 Credit hours**
Capstone experience. Emphasis on learning economics through applied research, writing, and oral presentations of student work. Capstone experience. Emphasis on learning economics through applied research, writing, and oral presentations of student work.
Pre-req: ECN 326 with a minimum grade of D and ECN 328 with a minimum grade of D and ECN 423 with a minimum grade of D.
Attributes: Capstone Course
Grade Mode: Normal Grading Mode

ECN 467 Economics Workshop II **2 Credit hours**
Capstone Experience. Emphasis on learning economics through writing exercises. Opportunity for collaborative research with CBER staff. Development of skills necessary for success in the job market. (PR: ECN 466) tion of Senior Thesis I) Capstone Experience. Emphasis on learning economics through writing exercises. Opportunity for collaborative research with CBER staff. Development of skills necessary for success in the job market. (PR: ECN 466) tion of Senior Thesis I)
Attributes: Capstone Course
Grade Mode: Normal Grading Mode

ECN 480 Special Topics **1-4 Credit hours**
Members of the department may teach, when necessary, any economics subject not listed among the current course offerings. Members of the department may teach, when necessary, any economics subject not listed among the current course offer- ings.
Grade Mode: Normal Grading Mode

ECN 485 Independent Study **1-4 Credit hours**
A research project conducted by a qualified student under guidance of a member of the department; involves gathering of data, interpretation, and presentation of findings in a written report. A research project conducted by a qualified student under guidance of a member of the department; involves gathering of data, interpretation, and presentation of findings in a written report.
Grade Mode: Normal Grading Mode

ECN 490 Internship **3-12 Credit hours**
A supervised internship in which the student works for a business firm/agency to gain practical experience in the student's major. The program of work and study will be defined in advanced and the students performance will be evaluated.
Grade Mode: Credit/No Credit Grade Only

Faculty

Professor
R. Agesa

Associate Professor
McCutcheon

Assistant Professor
Biswas, Duan, Feng, Yemba

Economics, B.A.

The B.A. option in Economics prepares students for several types of careers. For example, this option helps students prepare for:

1. *Law School.* Law schools place a high value on economics as an undergraduate major.
2. *Graduate School.* The B.A. in Economics is an excellent preparation for the M.B.A., as well as for further studies in Economics.
3. *Administration or research positions in business firms, government agencies, labor organizations, or private foundations.*

For further information, please contact Dr. Shaorong Zhang in the College of Business.

Major

Students who select this option must fulfill all COLA requirements for the B.A. degree and complete the following coursework:

Code	Title	Credit Hours
ECN 250	Principles Microeconomics	3
ECN 253	Principles Macroeconomics	3
ECN 326	Int Macroeconomic Analys	3
ECN 328	Int Microeconomic Analys	3
ECN 423	Intro to Econometrics	3
ECN 466	Economics Workshop (Capstone)	3
MGT 218	Business Quantitative Methods	3
Select 9 additional hours in Economics to be chosen with the advice and approval of the Academic Advisor.		9
Total Credit Hours		**30**

Major Information

- The total number of free electives will depend on the amount of double and triple counting of requirements.
- See course attributes each semester for courses that meet multiple requirements.
- Major elective courses must be all upper division, at least three hours at the 400- level.
- Questions about requirements should be directed to the College of Liberal Arts (304-696-2350). Core II and COLA requirements may not be double counted.
- Forty-eight credit hours (sixteen 3-hour courses) must be at the 300/400 level.
- Students must earn a *C* or better in ENG 102 and all foreign language courses.
- Minimum of 120 hours to graduate.

- General Education Course

- Milestone course: a key success marker for your major. See your advisor to discuss the importance of this course in your plan of study.

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Four Year Plan

Course	Title	Credit Hours
First Year		
Fall		
ENG 101	Beginning Composition	3
FYS 100	First Yr Sem Critical Thinking	3
ECN 250	Principles Microeconomics	3
MTH 127	College Algebra-Expanded	5
CMM 103	Fund Speech-Communication	3
	Credit Hours	**17**

Spring		
Social Science		3
ENG 201	Advanced Composition	3
Critical Thinking		3
Physical or Natural Science		4
Fine Arts Elective		3
	Credit Hours	**16**
Second Year		
Fall		
ECN 253	Principles Macroeconomics	3
Critical Thinking		3
Free Elective		3
Multicultural or International		3
Foreign Language 101		3
	Credit Hours	**15**
Spring		
Physical or Natural Science		4
Foreign Language 102		3
Humanities		3
Writing Intensive		3
ECN 326	Int Macroeconomic Analys	3
	Credit Hours	**16**
Third Year		
Fall		
Foreign Language 203		3
300/400 Multicultural		3
Free Elective		3
300/400 International		3
Free Elective		3
	Credit Hours	**15**
Spring		
Foreign Language 204		3
ECN 328	Int Microeconomic Analys	3
MGT 218	Business Quantitative Methods	3
300/400 Social Science		3
300/400 Writing Intensive		3
	Credit Hours	**15**
Fourth Year		
Fall		
ECN 423	Intro to Econometrics	3
300/400 ECN elective		3
300/400 ECN elective		3
300/400 Free Elective		3
300/400 Literature		3
	Credit Hours	**15**
Spring		
ECN 466	Economics Workshop	3
300/400 ECN Elective		
300/400 Literature		3
300/400 Humanities		3
Free Elective		3
	Credit Hours	**12**
	Total Credit Hours	**121**

Economics, Minor

A minimum of 15 credit hours in Economics, with no more than six of those hours earned at the 200 level or lower.

Department of Geography

Contacts: Dr. James M. Leonard, Chair
Website: http://www.marshall.edu/geography (http://www.marshall.edu/geography/)

geography@marshall.edu

Geography is the systematic study of the spatial aspects of human activity, the natural world, and human-environment interaction. The discipline of Geography occupies a unique position as a bridge between the social sciences (Human Geography), natural sciences (Physical Geography), and STEM fields (GIScience). As a result, the Geography Department offers both a Bachelor of Arts (B.A.) and Bachelor of Science (B.S.) degree. Both degrees offer students broad exposure to the various subfields of Geography and provide specialized career training and preparation. From this interdisciplinary perspective, Geography helps us understand and address numerous contemporary challenges ranging from economic development, urban planning, and ethnic conflict to climate change, environmental sustainability, and natural resource management. Geography is a rapidly expanding discipline with diverse career opportunities across the environmental sciences, social sciences, and technological fields in both the public and private sectors.

The Geography Department prepares students to succeed as professionals in today's job market through an innovative curriculum focusing on building critical thinking, technical expertise, and practical skills across a range of Human Geography, Physical Geography, and Geospatial Information Science (GIScience) courses. The curriculum includes a mixture of classroom and lab instruction, hands-on projects, and professional internship experiences that actively engage students in the learning process and provide the skills necessary for life-long learning. The Department maintains state-of-the-art facilities, including technology-enhanced classrooms, a Physical Geography lab, and a GIScience computer lab supporting students as they utilize the latest software and hardware. The Department provides a supportive learning environment where students work closely with faculty and peers while enjoying numerous opportunities to participate in campus, state, and national professional activities.

Geography alumni have successfully applied their knowledge and practical skills in a variety of career paths in both the public and private sectors, including urban and regional planning, economic development, environmental science, natural resource and energy management, weather forecasting, emergency response and homeland security, GIScience analysis, and education. Other alumni have continued with Geography studies at the graduate level. The Department also offers an Accelerated Master's program which allows qualifying students to begin earning graduate student credit during their senior year.

All Geography majors are required to earn a *C* or better in their Geography courses if those hours are to count toward the major requirements.

Programs

- Geography, Accelerated Master's Degree (p. 278)
- Geography, B.A. (p. 278)
- Geography, B.S. (p. 279)
- Geography, Minor (p. 286)
- GIScience, Certificate (http://catalog.marshall.edu/undergraduate/programs-az/liberal-arts/geography/giscience-certificate/)
- GIScience, Minor (http://catalog.marshall.edu/undergraduate/programs-az/liberal-arts/geography/giscience-minor/)
- Meteorology, Minor (p. 287)

Courses

- General Education Course

GEO 100 Intro to Human Geography (CT) 3 Credit hours
This critical thinking course provides a systematic examination of contemporary concepts and processes of human geography in global perspective, including economics, geopolitics, culture, nationalism, urbanization, governance, agriculture, population, and migration.
Attributes: Critical Thinking, International, Core II Social Sciences
Grade Mode: Normal Grading Mode

GEO 101 Physical Geography (CT) 4 Credit hours
Systematic survey of earth-sun relationships, land-surface form, climate, soils, water, natural vegetation, and other natural content as a background for human geography. Systematic survey of earth-sun relationships, land-surface form, climate, soils, water, natural vegetation, and other natural content as a background for human geography.
Attributes: Critical Thinking, Natural Sciences
Grade Mode: Normal Grading Mode

GEO 110 Basic GIS 1 Credit hour
Introduction to GIS concepts including GIS components, spatial and tabular data, database elements, data formats, and map design; hands-on experience with a GIS.
Attributes: Digital Humanities
Grade Mode: Normal Grading Mode

GEO 111 Air Photos & Satellite Imagery 1 Credit hour
Introduction to photogrammetry and remote sensing thourgh the hands-on investigation of aerial photographs and satellite imagery using the latest technology.
Attributes: Digital Humanities
Grade Mode: Normal Grading Mode

GEO 112 Smartphone GPS 1 Credit hour
Principles of Global Navigation Satellite Systems (GNSS); using your smartphone for Global Positioning Systems (GPS)/GNSS orientation, and data collection.
Attributes: Digital Humanities
Grade Mode: Normal Grading Mode

GEO 113 Web GIS 1 Credit hour
Students learn to build web maps, share GIS data on the internet, and create web GIS applications.
Attributes: Digital Humanities
Grade Mode: Normal Grading Mode

GEO 203 Economic Geography (CT) 3 Credit hours
A systematic examination of world economic geography with a focus on population, agriculture, transportation, land use, urbanization, industry, energy, and the environment. A systematic examination of world economic geography with a focus on population, agriculture, transportation, land use, urbanization, industry, energy, and the environment.
Attributes: Critical Thinking, International, Core II Social Sciences
Grade Mode: Normal Grading Mode

GEO 206 Geography West Virginia 3 Credit hours
A survey of the geography of West Virginia including landforms, climate, settlement patterns, population, economics, resources, politics, and environmental changes.
Attributes: American Institutions, Core II Social Sciences
Grade Mode: Normal Grading Mode

GEO 207 Biblical Geography 3 Credit hours
Students explore the physical and human geography of ancient Palestine and assess how geography informs our understanding of people, events, and places described by Jewish and Christian scriptures.
Attributes: Core II Humanities
Grade Mode: Normal Grading Mode

GEO 222 Global Environment Issues (CT) 3 Credit hours
Environmental issues have great emotional, political, and economic significance. The dynamics of global environmental problems, their complex interactions, and effects on potential stakeholders will be examined at the international scale.
Attributes: Critical Thinking, International, Core II Social Sciences
Grade Mode: Normal Grading Mode

GEO 230 Intro to Meteorology (CT) 4 Credit hours
Introduction to the composition of the atmosphere and weather phenomena, including thunderstorms, tornadoes, and hurricanes. Introduction to the composition of the atmosphere and weather phenomena, including thunderstorms, tornadoes, and hurricanes.
Attributes: Critical Thinking, Core II Natural Sciences
Grade Mode: Normal Grading Mode

GEO 280 Special Topics 1-4 Credit hours
Grade Mode: Normal Grading Mode

GEO 281 Special Topics 1-4 Credit hours
Grade Mode: Normal Grading Mode

GEO 282 Special Topics 1-4 Credit hours
Grade Mode: Normal Grading Mode

GEO 283 Special Topics 1-4 Credit hours
Grade Mode: Normal Grading Mode

GEO 300 Methods in Geography 3 Credit hours
Provides an introduction to research methods in geography. Topics addressed include: data sources; sampling; data collection, storage, and management; descriptive measures and data visualization techniques; qualitative and quantitative analysis.
Pre-req: STA 225 with a minimum grade of D or STA 150 with a minimum grade of D or STA 150B with a minimum grade of D or MGT 218 with a minimum grade of D or PSY 223 with a minimum grade of D or SOC 345 with a minimum grade of D or GEO 440 with a minimum grade of D.
Grade Mode: Normal Grading Mode

GEO 305 Geog of USA & Canada **3 Credit hours**
Survey of physical, historical, population, economic, political, cultural, and regional geographies of Canada and the United States, including an analysis of the multi-cultural nature of the societies.
Attributes: American Institutions, Multicultural
Grade Mode: Normal Grading Mode

GEO 317 World Regional Geography **3 Credit hours**
World regions examined using a synthesis of physical and human geographical themes including environment, culture, landscape, climate, landforms, globalization, population patterns, urbanization, economies, and political geography.
Attributes: International
Grade Mode: Normal Grading Mode

GEO 350 Severe Storms and Natl Hzrds **4 Credit hours**
Basics of earth and atmospheric hazards including flooding, earthquakes, tsunamis, hurricanes, tornadoes, and volcanic eruptions, and how to mitigate the impacts. Basics of earth and atmospheric hazards including flooding, earthquakes, tsunamis, hurricanes, tornadoes, and volcanic eruptions, and how to mitigate the impacts.
Grade Mode: Normal Grading Mode

GEO 355 Aviation Weather **3 Credit hours**
A study of atmospheric conditions on aeronautical operations. Topics include atmospheric properties, aviation hazards including thunderstorms, wind shear, turbulence, and icing, and weather flight resources.
Pre-req: GEO 230 with a minimum grade of D.
Grade Mode: Normal Grading Mode

GEO 402 Geography of Appalachia **3 Credit hours**
A study of the geography of Appalachia, including landforms, climate, settlement patterns, population, economics, resources, politics, and environmental changes.
Attributes: American Institutions
Grade Mode: Normal Grading Mode

GEO 404 Geography of Europe **3 Credit hours**
An examination of the geography of Europe focusing on contemporary issues, including climate, culture, economics, environmental change, everyday life, international relations landforms, language, politics, population, religion, and urbanization. An examination of the geography of Europe focusing on contemporary issues, including climate, culture, economics, environmental change, everyday life, international relations landforms, language, politics, population, religion, and urbanization.
Attributes: International
Grade Mode: Normal Grading Mode

GEO 405 Political Geography **3 Credit hours**
A systematic and regional survey of world political problems and international relations stressing current geopolitical conflicts. An examination of contemporary patterns, processes, and problems of political geography in global perspective, including globalization, colonialism, imperialism, geopolitics, nationalism, diplomacy, international borders, governance, political representation, and future projections
Attributes: International
Grade Mode: Normal Grading Mode

GEO 406 Population Geography **3 Credit hours**
An examination of contemporary patterns, processes, and problems of population geography in global perspective, including fertility, mortality, demographic change, migration, malnutrition, urbanization, natural resource sustainability, and future projections. An examination of contemporary patterns, processes, and problems of population geography in global perspective, including fertility, mortality, demographic change, migration, malnutrition, urbanization, natural resource sustainability, and future projections.
Attributes: International
Grade Mode: Normal Grading Mode

GEO 408 Geog of South & Middle America **3 Credit hours**
A study of settlement, transportation, manufacturing, agriculture, geopolitics, and natural resources of South and Middle American countries. Regional study of relation of man's activities to natural environment.
Attributes: International
Grade Mode: Normal Grading Mode

GEO 410 Urban Geography **3 Credit hours**
Study of the evolution, morphology and land use, functions, and problems of urban areas, with emphasis on governance, planning, and the social and environmental impacts of urbanization.
Attributes: American Institutions
Grade Mode: Normal Grading Mode

GEO 411 Medical Geography **3 Credit hours**
An examination of contemporary issues and problems in health and medical geography, including the spatial aspects of global health, health care policy, and disease origins, diffusion, and ecology.
Grade Mode: Normal Grading Mode

GEO 418 Geography For Educators **3 Credit hours**
A study of geographic concepts, methods, and technologies essential for effective teaching of geographic content for K-12 social studies teachers and college educators.
Grade Mode: Normal Grading Mode

GEO 422 Environmental Geography **3 Credit hours**
Attributes: International
Grade Mode: Normal Grading Mode

GEO 423 Cartography & GIS **3 Credit hours**
This course is an introduction to cartography and is the cornerstone of Geographic Information Science. In this class you will learn basic map design, map interpretation and appreciation. We will explore the nature of spatial data, and learn what maps can and cannot represent. We will study maps as a data source for Geographic Information Systems, and as a graphic tool for scientific visualizations.
Grade Mode: Normal Grading Mode

GEO 424 Transportation Geography **3 Credit hours**
A geographic analysis of transportation and its spatial organization. Concepts, models, and analytical methods related to traffic demand, network configuration, and allocation of transport facilities are covered.
Grade Mode: Normal Grading Mode

GEO 425 Climatology **4 Credit hours**
A study of elements of weather and climate, methods of climatic classification, and the distribution and characteristics of world climate regions. A study of elements of weather and climate, methods of climatic classification, and the distribution and characteristics of world climate regions.
Grade Mode: Normal Grading Mode

GEO 426 Principles of GIS **4 Credit hours**
Introduction to Geographic Information Systems (GIS) principles, techniques, and applications for the social and natural sciences with emphasis on foundational geographic principles in a lecture/lab format.
Attributes: Digital Humanities
Grade Mode: Normal Grading Mode

GEO 427 Principles of GIS II **4 Credit hours**
Students apply GIS principles and techniques to geoprocess and manipulate geographic data, including topics such as geodatabase management, python scripting, model building, web mapping and data services, and spatial analysis.
Pre-req: GEO 423 with a minimum grade of D or GEO 426 with a minimum grade of D or GEO 429 with a minimum grade of D or GEO 430 with a minimum grade of D or NRRM 423 with a minimum grade of D or NRRM 433 with a minimum grade of D.
Grade Mode: Normal Grading Mode

GEO 429 Location Analysis and GIS **4 Credit hours**
Concepts, models, and methods of geographic location analysis of natural resource extraction, manufacturing, services, retail and market area analytics, and logistics using GIS.
Pre-req: GEO 423 with a minimum grade of D or GEO 426 with a minimum grade of D or GEO 427 with a minimum grade of D or GEO 430 with a minimum grade of D or NRRM 423 with a minimum grade of D or NRRM 433 with a minimum grade of D.
Grade Mode: Normal Grading Mode

GEO 430 Environmental Raster GIS **4 Credit hours**
Environmental Applications of GIS raster analysis, including local, neighborhood, and zonal operations, terrain analysis, distance modeling, and surface interpolation, data collection and input, and advanced spatial analysis using GIS.
Pre-req: GEO 426 or GEO 429 or IST 423.
Grade Mode: Normal Grading Mode

GEO 431 Remote Sensing & Photogram **4 Credit hours**
Scientific study of the earth using images and data captured using satellite- or aircraft-borne sensors, with emphasis on issues of acquisition, photogrammetric interpretation, spatial analysis and application.
Pre-req: GEO 426 with a minimum grade of D or GEO 429 with a minimum grade of D or GEO 430 with a minimum grade of D or IST 423 with a minimum grade of D.
Grade Mode: Normal Grading Mode

GEO 432 Enterprise GIS **3 Credit hours**
Principles and techniques for planning, implementing, and managing Geographic Information Systems technologies in a firm or agency.
Pre-req: GEO 426 or GEO 429 or GEO 430 or GEO 431 or IST 423.
Grade Mode: Normal Grading Mode

GEO 433 GPS & Mobile Geospatial Tech **3 Credit hours**
An analysis of the design and deployment of Global Navigation Satellite Systems such as GPS (Global Positioning System) and their application to mobile map services.
Pre-req: GEO 426 or GEO 429 or GEO 430 or GEO 431 or IST 423.
Grade Mode: Normal Grading Mode

GEO 434 Floods Hazards and GIS **3 Credit hours**
Application of principles of flood hazards preparation, disaster management, and mitigation using Geographic Information Systems (GIS).
Grade Mode: Normal Grading Mode

GEO 440 Spatial Statistics and GIS **4 Credit hours**
Statistical methods applied to problem solving in geography and using GIS for display and analysis. Primary focus on descriptive and inferential spatial statistics, mapping, and spatial analysis of data.
Grade Mode: Normal Grading Mode

GEO 450 Extreme Weather **4 Credit hours**
Basics of extreme weather phenomena including hurricanes, tornadoes, floods, droughts, blizzards, and how to mitigate the impacts.
Grade Mode: Normal Grading Mode

GEO 454 Drones: Remote Sensing & GIS **3 Credit hours**
Learn FAA rules and safety procedures; prepare for Remote Pilot licensing exam; operate drones to collect remote sensing data; process imagery for analysis; integrate sUAS imagery with existing GIS data.
Grade Mode: Normal Grading Mode

GEO 460 Weather Analysis **4 Credit hours**
Introduction to reading weather maps and meteorological analysis techniques including satellite and radar image interpretation and numerical weather prediction.
Grade Mode: Normal Grading Mode

GEO 480 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

GEO 481 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

GEO 482 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

GEO 483 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

GEO 485 Independent Study **1-4 Credit hours**
Attributes: No Textbook Required
Grade Mode: Normal Grading Mode

GEO 486 Independent Study **1-4 Credit hours**
Attributes: No Textbook Required
Grade Mode: Normal Grading Mode

GEO 487 Independent Study **1-4 Credit hours**
Grade Mode: Normal Grading Mode

GEO 488 Independent Study **1-4 Credit hours**
Grade Mode: Normal Grading Mode

GEO 490 Internship **1-6 Credit hours**
Cooperative learning experience with regional employer/government agency.
Attributes: No Textbook Required
Grade Mode: Credit/No Credit Grade Only

GEO 498 Senior Capstone **2 Credit hours**
This senior capstone course combines research methods, data collection, and analysis to produce original research on questions and problems in geography. Par I: Pilot Project.
Pre-req: GEO 300 with a minimum grade of D and (GEO 423 with a minimum grade of D or GEO 426 with a minimum grade of D).
Attributes: Capstone Course
Grade Mode: Normal Grading Mode

GEO 499 Senior Capstone II **1-3 Credit hours**
This senior capstone course combines research methods, data collection, and analysis to produce original research on questions and problems in geography. Part II.
Pre-req: GEO 426 with a minimum grade of D and (MTH 225 with a minimum grade of D or GEO 440 with a minimum grade of D or MGT 218 with a minimum grade of D or PSY 223 with a minimum grade of D or SOC 345 with a minimum grade of D or ANT 301 with a minimum grade of D or EDF 417 with a minimum grade of D).
Attributes: American Institutions, Capstone Course
Grade Mode: Normal Grading Mode

Faculty

Professors
Law, Leonard

Associate Professors
Walz

Assistant Professors
Cordoba, Kozar

Geography, Accelerated Master's Degree

Students who have completed at least 90 hours towards their bachelor's degrees, have at least a 3.5 overall undergraduate GPA, and a 3.5 GPA in Geography are eligible to apply for our Accelerated Master's Degree program. A GRE score is not required. Students accepted into the program can begin taking graduate coursework up to a maximum of 12 hours in place of elective undergraduate courses. Students reduce the number of hours required to complete the bachelor's degree by the number of graduate hours they complete (up to a maximum of 12). They must meet all the other degree requirements for their bachelor's degrees while they work on their master's degrees. Interested students are encouraged to discuss this option with their advisors to obtain further details and information on the application process.

Geography, B.A.

- General Education Course

- Milestone course: a key success marker for your major. See your advisor to discuss the importance of this course in your plan of study.

Major

The Core Curriculum is designed to foster critical thinking skills and introduce students to basic domains of thinking that transcend disciplines. The Core applies to all majors. Information on specific classes in the Core can be found at https://www.marshall.edu/gened/.

Code	Title	Credit Hours
Core Curriculum		
Core 1: Critical Thinking		
FYS 100	First Yr Sem Critical Thinking	3
STA 225	Introductory Statistics (CT)	3
GEO 100	Intro to Human Geography (CT)	3
Core 2		
ENG 101	Beginning Composition	3
ENG 201	Advanced Composition	3
CMM 103	Fund Speech-Communication	3
STA 225	Introductory Statistics (CT)	3
Core II Natural/Physical Science		4
Core II Humanities		3
GEO 100	Intro to Human Geography (CT) (Core II Social Science)	3
Core II Fine Arts		3
Additional University Requirements		
Writing Intensive		3
Writing Intensive (300/400)		3
GEO 100	Intro to Human Geography (CT) (Multicultural or International)	3
GEO 498	Senior Capstone	2
GEO 499	Senior Capstone II	2
College-Specific		
Foreign Language 101		3
Foreign Language 102		3
Foreign Language 203		3
Foreign Language 204		3
COLA Literature		3
COLA Literature		3
COLA Humanities		3
COLA Social Science		3
COLA Social Science		3
COLA Social Science		3
GEO 101	Physical Geography (CT) (COLA Natural/Physical Science)	4
COLA International Credit		3
COLA Multicultural Credit		3
Major-Specific		
GEO 100	Intro to Human Geography (CT)	3
GEO 101	Physical Geography (CT)	4
GEO 300	Methods in Geography	3
GEO 423	Cartography & GIS	3
GEO 498	Senior Capstone	2
GEO 499	Senior Capstone II	2
Regional Geography		3
Human or Regional GEO Elective		3
Human or Regional GEO Elective		3
Human or Regional GEO Elective		3
GEO Elective		3
GEO Elective		3
Free Elective		3
Free Elective		3
Free Elective		3
Free Elective		3
Free Elective		3
Free Elective		3

Major Information

- The total number of free electives will depend on the amount of double and triple counting of requirements.
- See course attributes each semester for courses that meet multiple requirements.
- Questions about requirements should be directed to the College of Liberal Arts (304-696-2350). Core II and COLA requirements may not be double counted.
- Forty-eight credit hours (sixteen 3-hour courses) must be at the 300/400 level.
- Students must earn a *C* or better in ENG 201 Advanced Composition and all foreign language courses.
- Minimum of 120 hours to graduate.
- The B.A. in Geography degree requires a minimum total of 39 hours of geography coursework. Beyond the Geography Core Requirements, students choose a minimum of 9 credit hours from Human or Regional Geography. Remaining electives may be chosen from any GEO courses.

- General Education Course

- Milestone course: a key success marker for your major. See your advisor to discuss the importance of this course in your plan of study.

Four Year Plan

Geography is the systematic study of the spatial aspects of human activity, the natural world, and human-environment interaction. The discipline of Geography occupies a unique position as a bridge between the social sciences (Human Geography), natural sciences (Physical Geography), and STEM fields (GIScience). As a result, the Geography Department offers both a Bachelor of Arts (B.A.) and Bachelor of Science (B.S.) degree. Both degrees o fer students broad exposure to the various subfields of Geography and provide specialized career training and preparation. Geography is a rapidly expanding discipline with diverse career opportunities across the environmental sciences, social sciences, and technological fields in both the public and private sectors.

Course	Title	Credit Hours
First Year		
First Semester		
CMM 103	Fund Speech-Communication	3
ENG 101	Beginning Composition	3
FYS 100	First Yr Sem Critical Thinking	3
GEO 100	Intro to Human Geography (CT) (MC/I)	3
STA 225	Introductory Statistics (CT)	3
UNI 100	Freshman First Class	1
	Credit Hours	**16**
Second Semester		
ENG 201	Advanced Composition	3
GEO 101	Physical Geography (CT) (Core II Nat/Phys Science)	4
Writing Intensive		3
Core II Humanities		3
Core II Fine Arts		3
	Credit Hours	**16**
Second Year		
First Semester		
COLA Humanities		3
Regional Geography		3
Foreign Language 101		3
COLA Literature		3
COLA Social Science		3
	Credit Hours	**15**
Second Semester		
Foreign Language 102		3
COLA Physical/Natural Science		4
COLA Literature		3
GEO 300	Methods in Geography	3
COLA Social Science		3
	Credit Hours	**16**
Third Year		
First Semester		
COLA Social Science		3
Foreign Language 203		3
GEO 423	Cartography & GIS	3
Human or Regional GEO Elective		3
COLA Multicultural		3
	Credit Hours	**15**
Second Semester		
Foreign Language 204		3
300/400 Writing Intensive		3
Human or Regional GEO Elective		3
COLA International		3
Free Elective		3
	Credit Hours	**15**
Fourth Year		
First Semester		
GEO 498	Senior Capstone	2
Human or Regional GEO Elective		3
GEO Elective		3
Free Elective		3
Free Elective		3
	Credit Hours	**14**
Second Semester		
GEO 499	Senior Capstone II	2
GEO Elective		3
Free Elective		3
Free Elective		3
Free Elective		2
	Credit Hours	**13**
	Total Credit Hours	**120**

Geography, B.S.

- General Education Course

- Milestone course: a key success marker for your major. See your advisor to discuss the importance of this course in your plan of study.

Major

The Core Curriculum is designed to foster critical thinking skills and introduce students to basic domains of thinking that transcend disciplines. The Core applies to all majors. Information on specific classes in the Core can be found at https://www.marshall.edu/gened/.

Code	Title	Credit Hours
Core Curriculum		
Core 1: Critcal Thinking		
FYS 100	First Yr Sem Critical Thinking	3
STA 225	Introductory Statistics (CT)	3
GEO 100	Intro to Human Geography (CT)	3
Core 2		
ENG 101	Beginning Composition	3
ENG 201	Advanced Composition	3
CMM 103	Fund Speech-Communication	3
STA 225	Introductory Statistics (CT)	3
Core II Natural/Physical Science		4
Core II Humanities		3
GEO 100	Intro to Human Geography (CT) (Core II Social Science)	3
Core II Fine Arts		3
Additional University Requirements		
Writing Intensive		3
Writing Intensive (300/400)		3
GEO 100	Intro to Human Geography (CT) (Multicultural or International)	3
Capstone		4
College-Specific		
COLA Literature		3
COLA Literature		3
COLA Humanities		3
COLA Social Science		3
COLA Social Science		3
COLA Social Science		3
GEO 101	Physical Geography (CT) (COLA Natural/Physical Science)	4
COLA International Credit		3
COLA Multicultural Credit		3
Major-Specific		
GEO 100	Intro to Human Geography (CT)	3
GEO 101	Physical Geography (CT)	4
GEO 300	Methods in Geography	3
GEO 423	Cartography & GIS	3
GEO 426	Principles of GIS	4
GEO 498	Senior Capstone	2
GEO 499	Senior Capstone II (WI)	2
Regional Geography		3
Physical Geo. or GIScience Elective		3
Physical Geo. or GIScience Elective		3
Physical Geo. or GIScience Elective		3
Physical Geo. or GIScience Elective		3
GEO Elective		3
GEO Elective		3
Free Elective		3
Free Elective		3
Free Elective		3
Free Elective		3
Free Elective		3
Free Elective		3
Free Elective		2

Major Information

- The total number of free electives will depend on the amount of double and triple counting of requirements.
- See course attributes each semester for courses that meet multiple requirements.
- Questions about requirements should be directed to the College of Liberal Arts (304-696-2350). Core II and COLA requirements may not be double counted.
- Forty-eight credit hours (sixteen 3-hour courses) must be at the 300/400 level.
- Students must earn a *C* or better in ENG 201 Advanced Composition and all foreign language courses.
- Minimum of 120 hours to graduate.
- The B.S. in Geography requires a minimum total of 45 credit hours of Geography coursework. Beyond the Geography Core Requirements, students choose a minimum of 15 credits from Physical Geography or GIScience. Remaining electives may be chosen from any GEO courses. To compensate for the increased number of hours for the B.S. in Geography (including the Meteorology and Weather Broadcasting areas of emphasis), students are exempted from the College of Liberal Arts foreign language requirement.

Areas of Emphasis

- GIScience, Emphasis (p. 281)
- Meteorology, Emphasis (p. 283)
- Weather Broadcasting, Emphasis (p. 285)

- General Education Course

- Milestone course: a key success marker for your major. See your advisor to discuss the importance of this course in your plan of study.

Four Year Plan

Geography is the systematic study of the spatial aspects of human activity, the natural world, and human-environment interaction. The discipline of Geography occupies a unique position as a bridge between the social sciences (Human Geography), natural sciences (Physical Geography), and STEM fields (GIScience). As a result, the Geography Department offers both a Bachelor of Arts (B.A.) and Bachelor of Science (B.S.) degree. Both degrees offer students broad exposure to the various subfields of Geography and provide specialized career training and preparation. Geography is a rapidly

expanding discipline with diverse career opportunities across the environmental sciences, social sciences, and technological fields in both the public and private sectors.

Course	Title	Credit Hours
First Year		
First Semester		
CMM 103	Fund Speech-Communication	3
ENG 101	Beginning Composition	3
FYS 100	First Yr Sem Critical Thinking	3
GEO 100	Intro to Human Geography (CT) (MC/I)	3
STA 225	Introductory Statistics (CT)	3
UNI 100	Freshman First Class	1
	Credit Hours	**16**
Second Semester		
ENG 201	Advanced Composition	3
GEO 101	Physical Geography (CT) (Core II Nat/Phys. Science)	4
Writing Intensive		3
Core II Humanities		3
Fine Arts		3
	Credit Hours	**16**
Second Year		
First Semester		
COLA Humanities		3
Regional Geography		3
Physical Geo. or GIScience Elective		3
COLA Literature		3
COLA Social Science		3
	Credit Hours	**15**
Second Semester		
Physical Geo. or GIScience Elective		3
COLA Physical/Natural Science		4
COLA Literature		3
GEO 300	Methods in Geography	3
COLA Social Science		3
	Credit Hours	**16**
Third Year		
First Semester		
COLA Social Science		3
Physical Geo. or GIScience Elective		3
GEO 423	Cartography & GIS	3
COLA Multicultural		3
Free Elective		3
	Credit Hours	**15**
Second Semester		
Physical Geo. or GIScience Elective		3
300/400 Writing Intensive		3
GEO 426	Principles of GIS	4
COLA International		3
Free Elective		3
	Credit Hours	**16**
Fourth Year		
First Semester		
GEO 498	Senior Capstone	2
Physical Geo. or GIScience Elective		3
GEO Elective		3
Free Elective		3
Free Elective		3
	Credit Hours	**14**
Second Semester		
GEO 499	Senior Capstone II (WI)	2
GEO Elective		3
Free Elective		3
Free Elective		3
Free Elective		1
	Credit Hours	**12**
	Total Credit Hours	**120**

GIScience, Emphasis

- General Education Course

- Milestone course: a key success marker for your major. See your advisor to discuss the importance of this course in your plan of study.

Major

The Core Curriculum is designed to foster critical thinking skills and introduce students to basic domains of thinking that transcend disciplines. The Core applies to all majors. Information on specific classes in the Core can be found at https://www.marshall.edu/gened/.

Code	Title	Credit Hours
Core Curriculum		
Core 1: Critcal Thinking		
FYS 100	First Yr Sem Critical Thinking	3
STA 225	Introductory Statistics (CT)	3
GEO 100	Intro to Human Geography (CT)	3
Core 2		
ENG 101	Beginning Composition	3
ENG 201	Advanced Composition	3
CMM 103	Fund Speech-Communication	3
STA 225	Introductory Statistics (CT)	3
Core II Natural/Physical Science		4
Core II Humanities		3
GEO 100	Intro to Human Geography (CT) (Core II Social Science)	3
Core II Fine Arts		3
Additional University Requirements		
Writing Intensive		3
Writing Intensive (300/400)		3
GEO 100	Intro to Human Geography (CT) (Multicultural or International)	3
Capstone		4
College-Specific		

COLA Literature		3
COLA Literature		3
COLA Humanities		3
COLA Social Science		3
COLA Social Science		3
COLA Social Science		3
GEO 101	Physical Geography (CT) (COLA Natural/Physical Science)	4
COLA International Credit		3
COLA Multicultural Credit		3
Major-Specific		
GEO 100	Intro to Human Geography (CT)	3
GEO 101	Physical Geography (CT)	4
GEO 300	Methods in Geography	3
GEO 423	Cartography & GIS	3
GEO 426	Principles of GIS	4
GEO 498	Senior Capstone	2
GEO 499	Senior Capstone II (WI)	2
Regional Geography		3
GEO 431	Remote Sensing & Photogram	4
GIS Technologies		
Select at least six credits of the following:		6
GEO 110	Basic GIS	
GEO 111	Air Photos & Satellite Imagery	
GEO 112	Smartphone GPS	
GEO 113	Web GIS	
GEO 433	GPS & Mobile Geospatial Tech	
GEO 434	Floods Hazards and GIS	
GEO 454	Drones: Remote Sensing & GIS	
GIS Analysis and Application		
Select a minimum of six credits of the following:		6
GEO 429	Location Analysis and GIS	
GEO 430	Environmental Raster GIS	
GEO 432	Enterprise GIS	
GEO 440	Spatial Statistics and GIS	
GEO 490	Internship	
GIScience Electives		
Select additional GIScience (GEO) courses to reach a minimum of 21 credit hours beyond the Geograpy Core Requirements.		6
Free Elective		3
Free Elective		3
Free Elective		3
Free Elective		3
Free Elective		3
Free Elective		3
Free Elective		1

Major Information

- The total number of free electives will depend on the amount of double and triple counting of requirements.
- See course attributes each semester for courses that meet multiple requirements.
- Questions about requirements should be directed to the College of Liberal Arts (304-696-2350). Core II and COLA requirements may not be double counted.
- Forty-eight credit hours (sixteen 3-hour courses) must be at the 300/400 level.
- Students must earn a *C* or better in ENG 201 Advanced Composition and all foreign language courses.
- Minimum of 120 hours to graduate.
- The B.S. in Geography requires a minimum total of 45 credit hours of Geography coursework. Beyond the Geography Core Requirements, students choose a minimum of 15 credits from Physical Geography or GIScience. Remaining electives may be chosen from any GEO courses. To compensate for the increased number of hours for the B.S. in Geography (including the Meteorology and Weather Broadcasting areas of emphasis), students are exempted from the College of Liberal Arts foreign language requirement.

- General Education Course

- Milestone course: a key success marker for your major. See your advisor to discuss the importance of this course in your plan of study.

Four Year Plan

Geography is the systematic study of the spatial aspects of human activity, the natural world, and human-environment interaction. The discipline of Geography occupies a unique position as a bridge between the social sciences (Human Geography), natural sciences (Physical Geography), and STEM fields (GIScience). As a result, the Geography Department offers both a Bachelor of Arts (B.A.) and Bachelor of Science (B.S.) degree. Both degrees offer students broad exposure to the various subfields of Geography and provide specialized career training and preparation. Geography is a rapidly expanding discipline with diverse career opportunities across the environmental sciences, social sciences, and technological fields in both the public and private sectors.

Course	Title	Credit Hours
First Year		
First Semester		
CMM 103	Fund Speech-Communication	3
ENG 101	Beginning Composition	3
FYS 100	First Yr Sem Critical Thinking	3
GEO 100	Intro to Human Geography (CT) (MC/I)	3
STA 225	Introductory Statistics (CT)	3
UNI 100	Freshman First Class	1
	Credit Hours	**16**
Second Semester		
ENG 201	Advanced Composition	3
GEO 101	Physical Geography (CT) (Core II Nat/Phys Science)	4
Writing Intensive		3
Core II Humanities		3
Fine Arts		3
	Credit Hours	**16**

Second Year		
First Semester		
COLA Humanities		3
Regional Geography		3
Core II Physical and Natural Science		4
COLA Literature		3
COLA Social Science		3
	Credit Hours	**16**
Second Semester		
GIS Technologies		3
GEO 431	Remote Sensing & Photogram	4
COLA Literature		3
GEO 300	Methods in Geography	3
COLA Social Science		3
	Credit Hours	**16**
Third Year		
First Semester		
COLA Social Science		3
GIS Technologies		3
GEO 423	Cartography & GIS	3
COLA Multicultural		3
Free Elective		3
	Credit Hours	**15**
Second Semester		
GIS Analysis and Applications		3
300/400 Writing Intensive		3
GEO 426	Principles of GIS	4
COLA International		3
Free Elective		3
	Credit Hours	**16**
Fourth Year		
First Semester		
GEO 498	Senior Capstone	2
GIS Analysis and Applications		3
GIScience Elective		3
Free Elective		3
Free Elective		3
	Credit Hours	**14**
Second Semester		
GEO 499	Senior Capstone II	2
GIScience Elective		3
Free Elective		3
Free Elective		3
	Credit Hours	**11**
	Total Credit Hours	**120**

Meteorology, Emphasis

- General Education Course

- Milestone course: a key success marker for your major. See your advisor to discuss the importance of this course in your plan of study.

Major

The Core Curriculum is designed to foster critical thinking skills and introduce students to basic domains of thinking that transcend disciplines. The Core applies to all majors. Information on specific classes in the Core can be found at https://www.marshall.edu/gened/.

Code	Title	Credit Hours
Core Curriculum		
Core 1: Critcal Thinking		
FYS 100	First Yr Sem Critical Thinking	3
STA 225	Introductory Statistics (CT)	3
GEO 100	Intro to Human Geography (CT)	3
Core 2		
ENG 101	Beginning Composition	3
ENG 201	Advanced Composition	3
CMM 103	Fund Speech-Communication	3
STA 225	Introductory Statistics (CT)	3
Core II Natural/Physical Science		4
Core II Humanities		3
GEO 100	Intro to Human Geography (CT) (Core II Social Science)	3
Core II Fine Arts		3
Additional University Requirements		
Writing Intensive		3
Writing Intensive (300/400)		3
GEO 100	Intro to Human Geography (CT) (Multicultural or International)	3
Capstone		4
College-Specific		
COLA Literature		3
COLA Literature		3
COLA Humanities		3
COLA Social Science		3
COLA Social Science		3
COLA Social Science		3
GEO 101	Physical Geography (CT) (COLA Natural/Physical Science)	4
COLA International		3
COLA Multicultural		3
Major-Specific		
GEO 100	Intro to Human Geography (CT)	3
GEO 101	Physical Geography (CT)	4
GEO 300	Methods in Geography	3
GEO 423	Cartography & GIS	3
GEO 426	Principles of GIS	4
GEO 498	Senior Capstone	2
GEO 499	Senior Capstone II (WI)	2
Regional Geography		3
GEO 230	Intro to Meteorology (CT)	4
GEO 350	Severe Storms and Natl Hzrds	4
GEO 425	Climatology	4

GEO 460	Weather Analysis	4
Meterology Restricted Elective		
Select one of the following:		3
PHY 308	Thermal Physics [1]	
ENGR 219	Engineering Thermodynamics [2]	
PHY 330	Mechanics [1]	
ENGR 214	Dynamics [3]	
Free Elective		3
Free Elective		3
Free Elective		3
Free Elective		3
Free Elective		3
Free Elective		3
Free Elective		1
Meteorology Area of Emphasis Courses		
Students specializing in the Meteorology area of emphasis must complete the Geography Core Requirements (24 credit hours) and the following Meteorology courses (20 credit hours) for a total of 44 credit hours minimum.		
GEO 230	Intro to Meteorology (CT)	4
GEO 350	Severe Storms and Natl Hzrds	4
GEO 355	Aviation Weather (optional)	3
GEO 425	Climatology	4
GEO 431	Remote Sensing & Photogram (optional)	4
or BSC 410	Remote Sensing/GIS Appl	
GEO 460	Weather Analysis	4

1 Requires that the student must have taken the following: PHY 211 University Physics I and PHY 202 General Physics I Laboratory; PHY 213 University Physics II and PHY 204 General Physics 2 Laboratory; MTH 229 Calculus/Analytic Geom I (CT); MTH 230 Calculus/Analytic Geom II; MTH 231 Calculus/Analytic Geom III.

2 Requires that the student must have taken MTH 230 Calculus/Analytic Geom II.

3 Requires that the student must have taken ENGR 213 Statics and MTH 230 Calculus/Analytic Geom II.

Major Information

- The total number of free electives will depend on the amount of double and triple counting of requirements.
- See course attributes each semester for courses that meet multiple requirements.
- Questions about requirements should be directed to the College of Liberal Arts (304-696-2350). Core II and COLA requirements may not be double counted.
- Forty-eight credit hours (sixteen 3-hour courses) must be at the 300/400 level.
- Students must earn a *C* or better in ENG 201 Advanced Composition and all foreign language courses.
- Minimum of 120 hours to graduate.

- General Education Course

- Milestone course: a key success marker for your major. See your advisor to discuss the importance of this course in your plan of study.

Four Year Plan

Geography is the systematic study of the spatial aspects of human activity, the natural world, and human-environment interaction. The discipline of Geography occupies a unique position as a bridge between the social sciences (Human Geography), natural sciences (Physical Geography), and STEM fields (GIScience). As a result, the Geography Department offers both a Bachelor of Arts (B.A.) and Bachelor of Science (B.S.) degree. Both degrees offer students broad exposure to the various subfields of Geography and provide specialized career training and preparation. Geography is a rapidly expanding discipline with diverse career opportunities across the environmental sciences, social sciences, and technological fields in both the public and private sectors.

Course	Title	Credit Hours
First Year		
First Semester		
CMM 103	Fund Speech-Communication	3
ENG 101	Beginning Composition	3
FYS 100	First Yr Sem Critical Thinking	3
GEO 100	Intro to Human Geography (CT)	3
STA 225	Introductory Statistics (CT)	3
UNI 100	Freshman First Class	1
	Credit Hours	**16**
Second Semester		
ENG 201	Advanced Composition	3
GEO 101	Physical Geography (CT) (Core II Phys/Nat Science)	4
COLA Social Science		3
Core II Humanities		3
Core II Fine Arts		3
	Credit Hours	**16**
Second Year		
First Semester		
COLA Humanities		3
Regional Geography		3
GEO 230	Intro to Meteorology (CT)	4
COLA Literature		3
COLA Social Science		3
	Credit Hours	**16**
Second Semester		
GEO 300	Methods in Geography	3
GEO 350	Severe Storms and Natl Hzrds	4
Meteorology Restricted Elective		3
COLA Physical/Natural Science		4
	Credit Hours	**14**
Third Year		
First Semester		
COLA Social Science		3
GEO 423	Cartography & GIS	3
Weather Analysis course		4
COLA Multicultural		3

Free Elective		3
	Credit Hours	**16**
Second Semester		
GEO 431	Remote Sensing & Photogram	4
300/400 Writing Intensive		3
GEO 426	Principles of GIS	4
COLA International		3
	Credit Hours	**14**
Fourth Year		
First Semester		
GEO 498	Senior Capstone	2
GEO 425	Climatology	4
Free Elective		3
Free Elective		3
Free Elective		3
	Credit Hours	**15**
Second Semester		
GEO 499	Senior Capstone II (WI)	2
COLA Literature		3
Free Elective		3
Free Elective		3
Free Elective		3
	Credit Hours	**14**
	Total Credit Hours	**121**

Weather Broadcasting, Emphasis

- General Education Course

- Milestone course: a key success marker for your major. See your advisor to discuss the importance of this course in your plan of study.

Major

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Code	Title	Credit Hours
Core Curriculum		
Core 1: Critcal Thinking		
FYS 100	First Yr Sem Critical Thinking	3
STA 225	Introductory Statistics (CT)	3
GEO 100	Intro to Human Geography (CT)	3
Core 2		
ENG 101	Beginning Composition	3
ENG 201	Advanced Composition	3
CMM 103	Fund Speech-Communication	3
STA 225	Introductory Statistics (CT)	3
Core II Natural/Physical Science		4
Core II Humanities		3
GEO 100	Intro to Human Geography (CT) (Core II Social Science)	3
Core II Fine Arts		3
Additional University Requirements		
Writing Intensive		3
Writing Intensive (300/400)		3
GEO 100	Intro to Human Geography (CT) (Multicultural or International)	3
Capstone		4
College-Specific		
COLA Literature		3
COLA Literature		3
COLA Humanities		3
COLA Social Science		3
COLA Social Science		3
COLA Social Science		3
GEO 101	Physical Geography (CT) (COLA Natural/Physical Science)	4
COLA International Credit		3
COLA Multicultural Credit		3
Major-Specific		
GEO 100	Intro to Human Geography (CT)	3
GEO 101	Physical Geography (CT)	4
GEO 300	Methods in Geography	3
GEO 423	Cartography & GIS	3
GEO 426	Principles of GIS	4
GEO 498	Senior Capstone	2
GEO 499	Senior Capstone II (WI)	2
Regional Geography		3
GEO 230	Intro to Meteorology (CT)	4
GEO 350	Severe Storms and Natl Hzrds	4
GEO 425	Climatology	4
Weather Analysis course		4
GEO 490	Internship (optional)	3
or JMC 340	Basic Broadcast News	
JMC 331	Radio-TV Announ & Newscasting	3
Free Elective		3
Free Elective		3
Free Elective		3
Free Elective		3
Free Elective		3
Free Elective		3
Free Elective		3
Free Elective		1
Meteorology Area of Emphasis Courses		
Students specializing in the Meteorology area of emphasis must complete the Geography Core Requirements (24 credit hours) and the following Meteorology courses (20 credit hours) for a total of 44 credit hours minimum.		
GEO 230	Intro to Meteorology (CT)	4
GEO 350	Severe Storms and Natl Hzrds	4
GEO 425	Climatology	4

Weather Analysis course		4
GEO 431	Remote Sensing & Photogram	4

Major Information

- The total number of free electives will depend on the amount of double and triple counting of requirements.
- See course attributes each semester for courses that meet multiple requirements.
- Questions about requirements should be directed to the College of Liberal Arts (304-696-2350). Core II and COLA requirements may not be double counted.
- Forty-eight credit hours (sixteen 3-hour courses) must be at the 300/400 level.
- Students must earn a *C* or better in ENG 201 Advanced Composition and all foreign language courses.
- Minimum of 120 hours to graduate.

- General Education Course

- Milestone course: a key success marker for your major. See your advisor to discuss the importance of this course in your plan of study.

Four Year Plan

Geography is the systematic study of the spatial aspects of human activity, the natural world, and human-environment interaction. The discipline of Geography occupies a unique position as a bridge between the social sciences (Human Geography), natural sciences (Physical Geography), and STEM fields (GIScience). As a result, the Geography Department offers both a Bachelor of Arts (B.A.) and Bachelor of Science (B.S.) degree. Both degrees offer students broad exposure to the various subfields of Geography and provide specialized career training and preparation. Geography is a rapidly expanding discipline with diverse career opportunities across the environmental sciences, social sciences, and technological fields in both the public and private sectors.

Course	Title	Credit Hours
First Year		
First Semester		
CMM 103	Fund Speech-Communication	3
ENG 101	Beginning Composition	3
FYS 100	First Yr Sem Critical Thinking	3
GEO 100	Intro to Human Geography (CT) (MC/I)	3
STA 225	Introductory Statistics (CT)	3
UNI 100	Freshman First Class	1
	Credit Hours	**16**
Second Semester		
ENG 201	Advanced Composition	3
GEO 101	Physical Geography (CT) (Core II Nat/Phys Science)	4
COLA Social Science		3
Core II Humanities		3
Fine Arts		3
	Credit Hours	**16**
Second Year		
First Semester		
COLA Humanities		3
Regional Geography		3
GEO 230	Intro to Meteorology (CT)	4
Literature		3
Social Science		3
	Credit Hours	**16**
Second Semester		
GEO 350	Severe Storms and Natl Hzrds	4
COLA Physical/Natural Science		4
COLA Literature		3
GEO 300	Methods in Geography	3
Free Elective		3
	Credit Hours	**17**
Third Year		
First Semester		
Social Science		3
GEO 423	Cartography & GIS	3
Weather Analysis course		4
COLA Multicultural		3
Free Elective		3
	Credit Hours	**16**
Second Semester		
300/400 Writing Intensive		3
GEO 426	Principles of GIS	4
COLA International		3
Free Elective		3
	Credit Hours	**13**
Fourth Year		
First Semester		
GEO 498	Senior Capstone	2
GEO 490	Internship	3
GEO 425	Climatology	4
Free Elective		3
Free Elective		3
	Credit Hours	**15**
Second Semester		
GEO 499	Senior Capstone II	2
JMC 332	Intro to Video Production	3
Free Elective		3
Free Elective		3
	Credit Hours	**11**
	Total Credit Hours	**120**

Geography, Minor

Non-majors can earn a minor in Geography. This minor consists of a minimum of 12 credit hours of Geography coursework chosen in consultation with a faculty advisor. At least half of these credits must be earned at Marshall. Students are required to earn a *C* or better in all their Geography courses if those courses are to count for the minor.

GIScience, Certificate or Minor

Geospatial Information Science is a research field that utilizes specialized computer hardware, software, and procedures for the capture, presentation, and analysis of all types of natural and social science data referenced (mapped) to the earth's surface. The minor/certificate program provides knowledge, training, applications, and research skills for successful careers or graduate work across a number of disciplines. Students who complete the minor or certificate should be able to:

- perform GIScience capture, analysis, and presentation using vector, raster, and remote sensing data;
- use GIScience data to investiage research questions in the social or natural sciences;
- employ geographic concepts such as projections, coordinate systems, and scale;
- recognize and apply information science concepts such as data collection, representation, queries, and storage;
- enter a career that utilizes GIScience principles and practices; and
- continue GIScience work at the graduate level.

GIScience minor/certificate credits can count toward a bachelor's degree in several departments such as Geography, Biology, Physical Science, Health Informatics, Natural Resources and the Environment, or Management Information Systems. Please see an advisor in the appropriate department. Students may not earn a GIScience minor and a GIScience undergraduate certificate.

Requirements

- Minimum of 18 credit hours
- Students must take courses from at least two different departments.
- Students must have a *B* (3.0) average in their GIScience courses for the minor or certificate and no grade below a *C* (2.0) in their GIScience courses to earn the minor or certificate.

Code	Title	Credit Hours
Geographic Information Systems Course		
GEO 426	Principles of GIS	3-4
or NRE 423	GIS and Data Systems	
Remote Sensing Course		
Select one of the following:		3-4
BSC 410	Remote Sensing/GIS Appl	
BSC 411	Dgtl Image Proc/GIS Model	
GEO 431	Remote Sensing & Photogram	
NRRM 433	GIS/RS in Natural Resources	3
Total Credit Hours		**9-11**

GIScience Courses

Code	Title	Credit Hours
BSC/PS 410	Remote Sensing/GIS Appl	4
BSC/PS 411	Dgtl Image Proc/GIS Model	4
CE 241	Introduction to Geomatics	3
GEO 110	Basic GIS	1
GEO 111	Air Photos & Satellite Imagery	1
GEO 112	Smartphone GPS	1
GEO 426	Principles of GIS	4
GEO 429	Location Analysis and GIS	4
GEO 430	Environmental Raster GIS	4
GEO 431	Remote Sensing & Photogram	4
GEO 432	Enterprise GIS	3
GEO 433	GPS & Mobile Geospatial Tech	3
GEO 490	Internship (must be GIScience approved by adviser to qualify)	3
GLY 212	Geologic Field Methods	3
NRE 423	GIS and Data Systems	3
NRE 470	ES Internship (must be GIScience approved by adviser to qualify)	3
NRE 491	ES Senior Capstone (Senior Project II) (must be GIScience approved by adviser to qualify)	3
MIS 340	Intro to Database Mgt Systems	3
NRE 322	Assess I: Terrestrial Systems	4
NRE 323	Assessment II: Aquatic Ecology	4
Special Topics courses as approved by the GIScience Curriculum Committee.		
Independent Study courses as approved by the student's adviser in consultation with the GIScience Curriculum Committee.		

Meteorology, Minor

A minor in Meteorology, which provides a specialized program for students interested in Physical Geography and Meteorology, consists of a minimum of 16 credit hours. At least half of these credits must be earned at Marshall. Students are required to earn a *C* or better in all their Geography courses if those courses are to count for the minor.

Code	Title	Credit Hours
Required Courses		
GEO 230	Intro to Meteorology (CT)	4
GEO 350	Severe Storms and Natl Hzrds	4
Weather Analysis course		4
Select one of the following:		4
GEO 101	Physical Geography (CT)	
GEO 425	Climatology	
GEO 480	Special Topics	
GEO 481	Special Topics	
GEO 482	Special Topics	
GEO 483	Special Topics	
Total Credit Hours		**16**

Department of History

Contacts: Dr. Greta Rensenbrink, Chair
Website: http://www.marshall.edu/history (http://www.marshall.edu/history/)

history@marshall.edu

The study of History provides an essential component of liberal arts education and offers valuable preparation for careers in law, journalism, teaching, government, the ministry, library and museum work, and in those areas of the business world where a knowledge of foreign affairs and culture is desirable. History also serves as an indispensable adjunct to careers in the humanities and social sciences. More broadly, by exposure to a variety of cultures and human experiences, the discipline of History seeks to prepare students for the responsibilities of citizenship and for dealing with the ambiguities of human existence. The Department of History at Marshall also makes every effort to help students think critically, to view events with perspective and objectivity, and to appreciate the complexity of human experience and the difficulty of interpreting it.

Minors

Students may also choose one of the interdisciplinary minors in African and African American Studies, Asian Studies, Latin American Studies, Sexuality Studies, or Women's and Gender Studies.

Students can also obtain a minor in History online. For information please see www.marshall.edu/history/students/history-minor (http://www.marshall.edu/history/students/history-minor/).

Teacher Certification in Social Studies

Students interested in pursuing teaching certification, Social Studies 5-9 Endorsement, or Social Studies 5-Adult, should consult with the dean's office, College of Education and Professional Development, Jenkins Hall 220.

Programs

- European History, Minor (p. 294)
- History, B.A. (p. 294)
- History, Minor (p. 296)
- Teaching, M.A.T. (p. 296)
- United States History, Minor (p. 297)
- World History, Minor (p. 297)

Courses

- General Education Course

HST 101 Great Civs to 1300 (CT) **3 Credit hours**
Comparative study of the origin and course of major civilizations focusing on the Middle East, India, China, and the West. This class emphasizes critical thinking skills. Comparative study of the origin and course of major civilizations focusing on the Middle East, India, China, and the West. This class emphasizes critical thinking skills.
Attributes: Critical Thinking, Multicultural, Core II Social Sciences
Grade Mode: Normal Grading Mode

HST 101H Great Civs to 1300 (CT) **3 Credit hours**
Comparative study of the origin and course of major civilizations focusing on the Middle East, India, China, and the West. This honors section emphasizes critical thinking skills.
Pre-req: Admitted Honors College with a score of 1.
Attributes: Critical Thinking, Honors, Multicultural, Core II Social Sciences
Grade Mode: Normal Grading Mode

HST 102 World & West 1300-1850 (CT) **3 Credit hours**
An interdisciplinary analysis of the foundations of Western development. This class emphasizes critical thinking skills.
Attributes: Critical Thinking, Multicultural, Core II Social Sciences
Grade Mode: Normal Grading Mode

HST 102H World & West 1300-1850 (CT) **3 Credit hours**
An interdisciplinary analysis of the foundations of Western development. This class emphasizes critical thinking skills.
Pre-req: Admitted Honors College with a score of 1.
Attributes: Critical Thinking, Honors, Multicultural, Core II Social Sciences
Grade Mode: Normal Grading Mode

HST 103 The World Since 1850 (CT) **3 Credit hours**
Major world developments and trends from the middle of the 19th century to the present and their implications for the future. This class emphasizes critical thinking skills. Major world developments and trends from the middle of the 19th century to the present and their implications for the future. This class emphasizes critical thinking skills.
Attributes: Critical Thinking, International, Core II Social Sciences
Grade Mode: Normal Grading Mode

HST 103H World Since 1850 Honors (CT) **3 Credit hours**
Survey for superior students of world developments and trends from the 19th century to the present and their implications for the future. Survey for superior students of world developments and trends from the 19th century to the present and their implications for the future.
Pre-req: ACT Composite with a score of 26 or SAT Verbal Before March 16 with a score of 600.
Attributes: Critical Thinking, Honors, International, Core II Social Sciences
Grade Mode: Normal Grading Mode

HST 200 History Methods Workshop **3 Credit hours**
This course is an introduction to the most fundamental methods of the discipline. Students will learn to use library resources, practice document interpretation skills, and identify and evaluate historical arguments. This course is an introduction to the most fundamental methods of the discipline. Students will learn to use library resources, practice document interpretation skills, and identify and evaluate historical arguments.
Attributes: Core II Social Sciences
Grade Mode: Normal Grading Mode

HST 208 The Developing World (CT) **3 Credit hours**
A survey of selected Third World countries focusing on imperialism, colonialism and developmental interests. This class emphasizes critical thinking skills. A survey of selected Third World countries focusing on imperialism, colonialism and developmental interests. This class emphasizes critical thinking skills.
Attributes: Critical Thinking, International, Core II Social Sciences, World History
Grade Mode: Normal Grading Mode

HST 218 Ancient Egypt **3 Credit hours**
A survey of the history of Egypt from the pre-dynastic kings through the reign of Cleopatra with emphasis on religious, cultural, social, political and economic developments.
Attributes: World History
Grade Mode: Normal Grading Mode

HST 219 Ancient History **3 Credit hours**
A survey of the ancient Near East, Greece, and Rome with emphasis on Greek and Roman civilization from Mycenaean times through the Roman Empire of the 5th century. Open to all undergraduates. A survey of the ancient Near East, Greece, and Rome with emphasis on Greek and Roman civilization from Mycenaean times through the Roman Empire of the 5th century. Open to all undergraduates.
Attributes: European History, Multicultural, Core II Social Sciences
Grade Mode: Normal Grading Mode

HST 220 European Hist Medieval **3 Credit hours**
A survey of the history of Europe from the later Roman Empire to the end of the Middle Ages with emphasis on religious, cultural, social, political and economic developments. Open to all undergraduates. A survey of the history of Europe from the later Roman Empire to the end of the Middle Ages with emphasis on religious, cultural, social, political and economic developments. Open to all undergraduates.
Attributes: European History, Core II Social Sciences
Grade Mode: Normal Grading Mode

HST 223 Rise & Fall Nazi Germany **3 Credit hours**
A study of the origins, course, and collapse of the Third Reich. Some attention will be given to pre-Nazi period. A study of the origins, course, and collapse of the Third Reich. Some attention will be given to pre-Nazi period.
Attributes: European History, International, Core II Social Sciences
Grade Mode: Normal Grading Mode

HST 230 American History to 1877 (CT) **3 Credit hours**
A general survey from the discovery in 1492 through the period of Reconstruction. This class emphasizes critical thinking skills. A general survey from the discovery in 1492 through the period of Reconstruction. This class emphasizes critical thinking skills.
Attributes: American Institutions, Critical Thinking, Multicultural, Core II Social Sciences, United States History
Grade Mode: Normal Grading Mode

HST 230H Amer Hist to 1877-Honors **3 Credit hours**
A survey of American History to 1877 for the superior student. A survey of American History to 1877 for the superior student.
Pre-req: ACT Composite with a score of 26 or SAT Verbal Before March 16 with a score of 600.
Attributes: American Institutions, Core II Social Sciences, United States History
Grade Mode: Normal Grading Mode

HST 231 American Hist From 1877 (CT) **3 Credit hours**
A general survey since Reconstruction. This class emphasizes critical thinking skills. A general survey since Reconstruction. This class emphasizes critical thinking skills.
Attributes: American Institutions, Critical Thinking, Multicultural, Core II Social Sciences, United States History
Grade Mode: Normal Grading Mode

HST 231H US Hist Since 1877-Honors **3 Credit hours**
Pre-req: ACT Composite with a score of 26 or SAT Verbal Before March 16 with a score of 600.
Attributes: American Institutions, Honors, Social Sciences, Core II Social Sciences, United States History
Grade Mode: Normal Grading Mode

HST 250 Women in US History **3 Credit hours**
A study of the public and private contributions of women in the shaping of the United States from the Colonial period to the present. A study of the public and private contributions of women in the shaping of the United States from the Colonial period to the present.
Attributes: Core II Social Sciences, United States History
Grade Mode: Normal Grading Mode

HST 260 Rise of Islam 570-1750 **3 Credit hours**
A study of the Middle Eastern region from pre-Islamic Arabia to the pinnacle of Ottoman imperial control. Emphasis is placed on cultural, social, and political developments. A study of the Middle Eastern region from pre-Islamic Arabia to the pinnacle of Ottoman imperial control. Emphasis is placed on cultural, social, and political developments.
Attributes: Core II Social Sciences, World History
Grade Mode: Normal Grading Mode

HST 265 Modern East Asia **3 Credit hours**
A survey of the history of East Asia from 17th century to present with a focus on China and Japan. A survey of the history of East Asia from 17th century to present with a focus on China and Japan.
Attributes: Core II Social Sciences, World History
Grade Mode: Normal Grading Mode

HST 280 Special Topics **1-4 Credit hours**
Selected topics not covered in regular course offerings. Selected topics not covered in regular course offerings.
Grade Mode: Normal Grading Mode

HST 281 Special Topics **1-4 Credit hours**
Selected topics not covered in regular course offerings. Selected topics not covered in regular course offerings.
Grade Mode: Normal Grading Mode

HST 282 Special Topics **1-4 Credit hours**
Selected topics not covered in regular course offerings. Selected topics not covered in regular course offerings.
Grade Mode: Normal Grading Mode

HST 283 Special Topics **1-4 Credit hours**
Selected topics not covered in regular course offerings. Selected topics not covered in regular course offerings.
Grade Mode: Normal Grading Mode

HST 301 Lat Am Discovery-Independ **3 Credit hours**
Emphasis is on conditions in Spain which influenced the development of Latin America and eventually led to the independence movement. Emphasis is on conditions in Spain which influenced the development of Latin America and eventually led to the independence movement.
Attributes: International, World History
Grade Mode: Normal Grading Mode

HST 302 Lat Am Independence-Pres **3 Credit hours**
Emphasis is on the political, economic and social institutions of Argentina, Brazil, Chile and Mexico. Emphasis is on the political, economic and social insti- tutions of Argentina, Brazil, Chile and Mexico.
Attributes: International, World History
Grade Mode: Normal Grading Mode

HST 303 American Military History **3 Credit hours**
Attributes: United States History
Grade Mode: Normal Grading Mode

HST 304 Spanish History Since 1475 **3 Credit hours**
A survey of Spain's historical development emphasizing her rise and decline as a world power, the impact of persistent internal conflict, the Franco dictatorship and the transition to democracy.
Attributes: European History, International
Grade Mode: Normal Grading Mode

HST 305 Drug Wars **3 Credit hours**
This course examines the history of the war on drugs throughout U.S. and Latin American history with an emphasis on the past century.
Attributes: World History
Grade Mode: Normal Grading Mode

HST 306 The Holocaust **3 Credit hours**
An exploration of the why and how of the Holocaust with an emphasis on Nazi Jewish policy from 1933 to 1942. An exploration of the why and how of the Holocaust with an emphasis on Nazi Jewish policy from 1933 to 1942.
Attributes: European History
Grade Mode: Normal Grading Mode

HST 307 The Global Cold War **3 Credit hours**
An international survey of World War II and the Cold War. Topics include military, political, diplomatic, social and cultural history from a global perspective.
Attributes: International, World History
Grade Mode: Normal Grading Mode

HST 308 Baseball in the Americas **3 Credit hours**
It seeks to understand the importance of baseball from a social, cultural and political standpoint. It also explores the use of baseball as a diplomatic tool.
Attributes: United States History
Grade Mode: Normal Grading Mode

HST 309 History of the Cherokee **3 Credit hours**
The course explores the history and culture of the Cherokee people from pre-contact through the 21st century.
Grade Mode: Normal Grading Mode

HST 310 History of Global Pandemics **3 Credit hours**
A study of pandemics in world history, from the Plague of Athens to COVID-19.
Attributes: American Institutions, Social Sciences
Grade Mode: Normal Grading Mode

HST 311 World War I **3 Credit hours**
This course explores the First World War. It examines the roots of the conflict, the outbreak, the course of the war, and its chaotic aftermath.
Attributes: World History
Grade Mode: Normal Grading Mode

HST 312 African-American History **3 Credit hours**
A survey of African-American History from African and West Indian origins to the present. A survey of African-American History from African and West Indian origins to the present.
Attributes: American Institutions, Multicultural, United States History
Grade Mode: Normal Grading Mode

HST 314 LGBTQ+ History of the US **3 Credit hours**
A survey of LGBTQIA+ history in the United States from the colonial period to the present. Introduction to the civilization of the area; the establishment of colonial control; liquidation of colonial rule and the readjustment required.
Attributes: United States History
Grade Mode: Normal Grading Mode

HST 323 Religion in America **3 Credit hours**
The rise and development of religion and of religious thinking in America. (Same as Religious Studies 323) The rise and development of religion and of religious thinking in America. (Same as Religious Studies 323)
Attributes: American Institutions, Social Sciences, United States History
Grade Mode: Normal Grading Mode

HST 330 Football and American Culture **3 Credit hours**
This class examines the role of football in American culture, politics, the economy and particularly its role in the elevation of college sports. A general treatment from the discovery in 1492 through the period of Reconstruction.
Attributes: United States History
Grade Mode: Normal Grading Mode

HST 333 American Colonial History **3 Credit hours**
A study of the historical development of the English colonies in America. A study of the historical development of the English colonies in America.
Attributes: American Institutions, United States History
Grade Mode: Normal Grading Mode

HST 342 American Legal History **3 Credit hours**
Historical development of American law in areas ranging from slavery and racial discrimination to civil liberties and crime and punishment. Historical development of American law in areas ranging from slavery and racial discrimination to civil liberties and crime and punishment.
Attributes: American Institutions, United States History
Grade Mode: Normal Grading Mode

HST 343 The US in the 1970s **3 Credit hours**
The economic, political, social and cultural history of the United States as it shifted from the modern 1960s to the post-modern world of the late 20th century. The economic, political, social and cultural history of the United States as it shifted from the modern 1960s to the post-modern world of the late 20th century.
Attributes: American Institutions, United States History
Grade Mode: Normal Grading Mode

HST 344 The United States in the 1980s **3 Credit hours**
Focusing on the United States in the 1980s global context, this course examines the social, cultural, political, and economic history of the late 20th century.
Attributes: United States History
Grade Mode: Normal Grading Mode

HST 347 Southern Women's History **3 Credit hours**
This course explores the lives and experiences of Southern women in the US from the colonial era to the present. This course explores the lives and experiences of Southern women in the US from the colonial era to the present.
Attributes: United States History
Grade Mode: Normal Grading Mode

HST 360 Sports and Civil Rights **3 Credit hours**
An examination of the way that sports history reflects important themes in US history such as equality, race, ethnicity, and gender.
Attributes: Multicultural
Grade Mode: Normal Grading Mode

HST 361 The Modern Middle East **3 Credit hours**
A survey of the modern Middle East with emphasis on the historical background of current controversial issues confronting the region. A survey of the modern Middle East with emphasis on the historical background of current controversial issues confronting the region.
Attributes: International, World History
Grade Mode: Normal Grading Mode

HST 362 The Crusades **3 Credit hours**
An examination of the origins, historical progression, and impact of the Crusades from both Christian and Islamic perspectives.
Attributes: Multicultural, World History
Grade Mode: Normal Grading Mode

HST 365 The Civil Rights Movement **3 Credit hours**
An exploration of 20th century movements for civil rights in American history examining race, ethnicity, social class, and gender. An exploration of 20th century movements for civil rights in American history examining race, ethnicity, social class, and gender.
Attributes: Multicultural
Grade Mode: Normal Grading Mode

HST 366 Conspiracies in US History **3 Credit hours**
This course focuses on the ways people have constructed and used conspiracy theories to explain events in U.S. political, cultural, social, and scientific arenas.
Attributes: United States History
Grade Mode: Normal Grading Mode

HST 378 Modern Asia **3 Credit hours**
A selective look at Modern Asia, focusing on Japan, China, Korea, Taiwan, Vietnam and Indonesia and American interaction with the Asian nations. No Preq. A selective look at Modern Asia, focusing on Japan, China, Korea, Taiwan, Vietnam and Indonesia and American inter- action with the Asian nations. No Preq.
Attributes: International, World History
Grade Mode: Normal Grading Mode

HST 380 Asia to 1600 **3 Credit hours**
This course will introduce students to the political, cultural, social, and intellectual environment of premodern Asia. Students will also learn to think critically about their own and other societies. This course will introduce students to the political, cultural, social, and intellectual environment of pre- modern Asia. Students will also learn to think critically about their own and other societies.
Attributes: World History
Grade Mode: Normal Grading Mode

HST 390 Food in World History **3 Credit hours**
This course examines the key changes and continuities in human food consumption patterns and practices since the Neolithic period while comparing and contrasting the foodways of major civilizations and cultures.
Attributes: World History
Grade Mode: Normal Grading Mode

HST 392 Food Markets and Modernity **3 Credit hours**
This course examines the social and cultural history of various types of urban food markets in Western Europe and the United States from the late eighteenth century to the present.
Attributes: European History
Grade Mode: Normal Grading Mode

HST 400 Senior Seminar **3 Credit hours**
A capstone course for History majors. Survey of literature and practical experience in methods and sources of history through bibliographical study and research papers. Senior standing or by permission. A capstone course for History majors. Survey of literature and practical experience in methods and sources of history through bibliographical study and research papers. Senior standing or by permission.
Pre-req: HST 101 with a minimum grade of D and HST 102 with a minimum grade of D and HST 103 with a minimum grade of D and HST 200 with a minimum grade of D and HST 230 with a minimum grade of D and HST 231 with a minimum grade of D.
Attributes: Capstone Course
Grade Mode: Normal Grading Mode

HST 401 History of Appalachia **3 Credit hours**
This course will explore the historical and historiographical development of Appalachia and the economic, political, and cultural forces that have shaped the lives and communities of mountaineers.
Grade Mode: Normal Grading Mode

HST 405 Amer Diplomacy 1900-Pres **3 Credit hours**
American foreign relations in the 20th century. The gradual retreat from isolation in the period between World War I and World War II and modern American involvement in international commitments are stressed. American foreign relations in the 20th century. The gradual retreat from isolation in the period between World War I and World War II and modern American involvement in inter- national commitments are stressed.
Attributes: American Institutions, United States History
Grade Mode: Normal Grading Mode

HST 406 Tudor & Stuart England **3 Credit hours**
A history of England under the Tudors and Stuarts, focusing primarily on demographic, social, cultural, and political developments. A history of England under the Tudors and Stuarts, focusing primarily on demographic, social, cultural, and political developments.
Attributes: European History
Grade Mode: Normal Grading Mode

HST 407 Sex and Sexuality in the US **3 Credit hours**
Examines the history of sex and sexuality in North America in the context of cultural, legal, economic, political and social history from the 16th century to present.
Attributes: United States History
Grade Mode: Normal Grading Mode

HST 408 History of LGBT Peoples **3 Credit hours**
A survey of gay, lesbian, bisexual and transgender history in the United States from the colonial period to the present. A survey of gay, lesbian, bisexual and transgender history in the United States from the colonial period to the present.
Attributes: United States History
Grade Mode: Normal Grading Mode

HST 409 American Revolution **3 Credit hours**
A varied view of the American Revolution and its impact on the American people. A varied view of the American Revolution and its impact on the American people.
Attributes: United States History
Grade Mode: Normal Grading Mode

HST 413 Hist Old South 1492-1860 **3 Credit hours**
The History of the Old South is a study of the political, economic, social, and cultural conditions in the South that led to the development of the South as a distinct section in the United States. The History of the Old South is a study of the political, economic, social, and cultural conditions in the South that led to the development of the South as a distinct section in the United States.
Attributes: United States History
Grade Mode: Normal Grading Mode

HST 414 Am Civil War & Reconstruc **3 Credit hours**
A discussion of the economic, political, social, and cultural differences leading to the Civil War, the war itself, and an analysis of the political and economic importance of Reconstruction. A discussion of the economic, political, social, and cultural differences leading to the Civil War, the war itself, and an analysis of the political and economic impor- tance of Reconstruction.
Attributes: United States History
Grade Mode: Normal Grading Mode

HST 415 Hist New South 1877-Pres **3 Credit hours**
A study of the political, economic, social, and cultural changes in the South after Reconstruction, which explains conditions in the contemporary South. A study of the political, economic, social, and cultural changes in the South after Reconstruction, which explains conditions in the contemporary South.
Attributes: United States History
Grade Mode: Normal Grading Mode

HST 417 U.S. West to 1900 **3 Credit hours**
A study of the social, cultural, political, and economic history of the US West to 1900, along with West's place in public memory.
Attributes: United States History
Grade Mode: Normal Grading Mode

HST 421 Renaissance & Reformation **3 Credit hours**
The impact of the Renaissance upon esthetic, economic, and political developments especially in the 15th and 16th centuries. The decline of Catholicism and the growth of the Protestant movement, and the influence of the two movements upon each other are stressed. The impact of the Renaissance upon esthetic, economic, and political developments especially in the 15th and 16th centuries. The decline of Catholicism and the growth of the Protestant movement, and the influence of the two movements upon each other are stressed.
Attributes: European History
Grade Mode: Normal Grading Mode

HST 424 US Science & Technology **3 Credit hours**
A study of the development and impact of science and technology in the U.S. A study of the development and impact of science and tech- nology in the U.S.
Attributes: American Institutions, United States History
Grade Mode: Normal Grading Mode

HST 425 European Hist 1814-1914 **3 Credit hours**
A century of European policital, economic, and social history and its relationship to and influence upon the history of other world areas is noted. The impact of imperialistic rivalry is emphasized. A century of European policital, economic, and social history and its relationship to and influence upon the history of other world areas is noted. The impact of imperialistic rivalry is emphasized.
Attributes: European History
Grade Mode: Normal Grading Mode

HST 426 European Hist 1914-Pres **3 Credit hours**
The impact of World War I upon Europe, the era between two world wars, the search for world peace, and World War II and its aftermath are major topics of consideration. The impact of World War I upon Europe, the era between two world wars, the search for world peace, and World War II and its aftermath are major topics of consideration.
Attributes: European History, International
Grade Mode: Normal Grading Mode

HST 427 The World at War **3 Credit hours**
This course explores the Second World War. It probes the nexus of diplomacy, politics, ideology, military strategy and operations, economics, and technological innovation that generated a truly global "total war."
Attributes: Social Sciences, World History
Grade Mode: Normal Grading Mode

HST 428 Intel & Cult Hist Mod Eur **3 Credit hours**
A survey of the main events in European thought and culture in the 19th and 20th centuries. A survey of the main events in European thought and culture in the 19th and 20th centuries.
Attributes: European History, International
Grade Mode: Normal Grading Mode

HST 430 Soviet Russia and Beyond **3 Credit hours**
Rise and fall of the Soviet Union, with emphasis on political and economic changes and Soviet frreign policy, and including an examination of the aftermath of the Soviet Union's collapse. Rise and fall of the Soviet Union, with emphasis on political and economic changes and Soviet frreign policy, and including an examination of the aftermath of the Soviet Union's collapse.
Attributes: European History, International
Grade Mode: Normal Grading Mode

HST 431 America in the Gilded Age **3 Credit hours**
A study of America's transformation from a rural, agrarian nation into an urban, industrial world power; the final destruction of the American Indian; the settlement of the West; and the farmers' revolt. A study of America's transformation from a rural, agrarian nation into an urban, industrial world power; the final destruction of the American Indian; the settlement of the West; and the farmers' revolt.
Attributes: American Institutions, United States History
Grade Mode: Normal Grading Mode

HST 433 In Our Time-Am Since 1945 **3 Credit hours**
A study of America since World War II, focusing mainly on domestic politics, foreign affairs, the civil rights movement, the rise of minorities, and the fragmentation of American society. A study of America since World War II, focusing mainly on domestic politics, foreign affairs, the civil rights move- ment, the rise of minorities, and the fragmentation of American society.
Attributes: American Institutions, United States History
Grade Mode: Normal Grading Mode

HST 434 The Vietnam War **3 Credit hours**
A study of the origin and escalation of American involvement in Vietnam, the domestic impact of the war within the United States and the collapse of the South Vietnamese government. A study of the origin and escalation of American involvement in Vietnam, the domestic impact of the war within the United States and the collapse of the South Vietnamese government.
Attributes: International, United States History
Grade Mode: Normal Grading Mode

HST 435 Modern Japan **3 Credit hours**
Begins with an overview of nineteenth century Japan and stresses the twentieth century rise of Japan to the position of world power. Begins with an overview of nineteenth century Japan and stresses the twentieth century rise of Japan to the position of world power.
Attributes: International, World History
Grade Mode: Normal Grading Mode

HST 436 Modern China **3 Credit hours**
This course will provide an overview of Chinese history in the modern era (1600 to present), including the major political, cultural, social and intellectual events and trends of this period. This course will provide an overview of Chinese history in the modern era (1600 to present), including the major political, cultural, social and intellectual events and trends of this period.
Attributes: World History
Grade Mode: Normal Grading Mode

HST 437 Seminar in Public History **3 Credit hours**
Introduction to the basic theories, ideas, and approaches to the application of historical theory or methods to projects presented to non-student publics; local and economic development applications and projects emphasized.
Attributes: United States History
Grade Mode: Normal Grading Mode

HST 438 Stuff and Things in History **3 Credit hours**
This course investigates the rich potential of"things" -- objects, landscapes, buildings, household utensils, furniture, foods, works of art, clothing, etc -- as sources of insight about American history and culture.
Attributes: World History
Grade Mode: Normal Grading Mode

HST 439 Modern China through Film **3 Credit hours**
Through a combination of films,lectures,readings,discussions and writings the course will show how China took its unique path to modernization. Through a combination of films,lectures,readings,discussions and writings the course will show how China took its unique path to modernization.
Attributes: World History
Grade Mode: Normal Grading Mode

HST 440 West Virginia History **3 Credit hours**
An interdisciplinary study of the state, its people and its institutions within the national context. An interdisciplinary study of the state, its people and its institutions within the national context.
Attributes: American Institutions, United States History
Grade Mode: Normal Grading Mode

HST 443 20th Century US Womens Hst **3 Credit hours**
This course explores the diverse lives and experiences of 20th century US women, always with an emphasis on power. This course explores the diverse lives and experiences of 20th century US women, always with an emphasis on power.
Attributes: United States History
Grade Mode: Normal Grading Mode

HST 444 US Popular Culture **3 Credit hours**
Explores the roles of popular media, art, consumer culture, and public entertainments in the development of popular culture in the United States from the 18th Century to the present.
Attributes: United States History
Grade Mode: Normal Grading Mode

HST 445 Arab-Israeli Conflict **3 Credit hours**
This course will examine the historical developments of the modern Arab-Israeli conflict, with emphasis placed on political, socioeconomic, and cultural change and the prospects for peace. This course will examine the historical developments of the modern Arab-Israeli conflict, with emphasis placed on political, socioeconomic, and cultural change and the prospects for peace.
Attributes: World History
Grade Mode: Normal Grading Mode

HST 446 Rise of Atlantic World **3 Credit hours**
This course considers the expansion of Western Europe, beginning in the early 1400's to Africa, Latin America, and other parts of the Atlantic world.
Attributes: World History
Grade Mode: Normal Grading Mode

HST 447 Film and Empire **3 Credit hours**
This course explores the nature and importance of empires through the reading of key texts and the study of selected films.
Attributes: World History
Grade Mode: Normal Grading Mode

HST 448 British History in Film **3 Credit hours**
This course explores selected aspects of British history through the study of films and key texts.
Attributes: European History
Grade Mode: Normal Grading Mode

HST 449 World War I in Film **3 Credit hours**
This course explores the origins, course, and meaning of World War I (1914-1918) through the use of selected films and readings.
Attributes: World History
Grade Mode: Normal Grading Mode

HST 451 History of Women in Sports **3 Credit hours**
Examines the importance of sport to the lives of girls and women and vice versa. The course encourages critical analysis of the place and value of sport in women's lives.
Attributes: United States History
Grade Mode: Normal Grading Mode

HST 452 History of Sports in America **3 Credit hours**
Examines the effects of sports on American society and culture. It explores the historical development of American sports and examine relationships between sports, nationalism, politics, economics, gender and American expansion.
Attributes: United States History
Grade Mode: Normal Grading Mode

HST 453 The Kennedy Assassination **3 Credit hours**
This course explores the events surrounding the assassination of President John F. Kennedy.
Grade Mode: Normal Grading Mode

HST 454 History of Ireland **3 Credit hours**
This course explores the history of Ireland from the Middle Ages to the Present.
Attributes: European History
Grade Mode: Normal Grading Mode

HST 458 Spies in History **3 Credit hours**
This course explores the role played by spies and espionage in modern history.
Attributes: World History
Grade Mode: Normal Grading Mode

HST 462 The Viking World **3 Credit hours**
By analyzing saga literature, poetry, and artifacts, students will examine the history of medieval Scandinavia.
Attributes: European History
Grade Mode: Normal Grading Mode

HST 465 Medieval Britain **3 Credit hours**
An examination of mainland Britain from the pre-Roman era through the Hundred Years War.
Attributes: European History
Grade Mode: Normal Grading Mode

HST 467 Fashion and Textile History **3 Credit hours**
Cross-cultural comparisons of textiles as primary sources for prehistoric cultures through the 1920's.
Attributes: World History
Grade Mode: Normal Grading Mode

HST 480 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

HST 481 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

HST 482 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

HST 483 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

HST 485 Independent Study **1-4 Credit hours**
Attributes: No Textbook Required
Grade Mode: Normal Grading Mode

HST 486 Independent Study **1-4 Credit hours**
Grade Mode: Normal Grading Mode

HST 487 Independent Study **1-4 Credit hours**
Grade Mode: Normal Grading Mode

HST 488 Independent Study **1-4 Credit hours**
Grade Mode: Normal Grading Mode

Faculty

Professors
Barksdale, Miller, Palmer, Rutherford, Williams, White

Associate Professors
Deal, Diener, Rensenbrink, Tabyshalieva

Assistant Professor
Handley-Cousins

European History, Minor

Code	Title	Credit Hours
Select two of the following general surveys of World History courses:		6
HST 101	Great Civs to 1300 (CT)	
HST 102	World & West 1300-1850 (CT)	
HST 103	The World Since 1850 (CT)	
Courses in European History offered by the History Department are acceptable.		9
Total Credit Hours		**15**

History, B.A.

- General Education Course

- Milestone course: a key success marker for your major. See your advisor to discuss the importance of this course in your plan of study.

Major

The Core Curriculum is designed to foster critical thinking skills and introduce students to basic domains of thinking that transcend disciplines. The Core applies to all majors. Information on specific classes in the Core can be found at https://www.marshall.edu/gened/.

Code	Title	Credit Hours
Core Curriculum		
Core 1: Critical Thinking		
FYS 100	First Yr Sem Critical Thinking	3
MTH 121	Concepts and Applications (CT)	3
HST 101	Great Civs to 1300 (CT)	3
Core 2		
ENG 101	Beginning Composition	3
ENG 201	Advanced Composition	3
CMM 103	Fund Speech-Communication	3
MTH 121	Concepts and Applications (CT)	3
Core II Natural/Physical Science		4
Core II Humanities		3
HST 101	Great Civs to 1300 (CT) (Core II Social Science)	3
Core II Fine Arts		3
Additional University Requirements		
Writing Intensive		3
Writing Intensive		3
HST 103	The World Since 1850 (CT) (Multicultural or International)	3
HST 400	Senior Seminar (Capstone)	3
College-Specific		
Foreign Language 101		3
Foreign Language 102		3
Foreign Language 203		3
Foreign Language 204		3
COLA Literature		3
COLA Literature		3
COLA Humanities		3
HST COLA Social Science		3
COLA Social Science (not HST)		3
COLA Social Science (not HST)		3
COLA Natural/Physical Science		4
COLA International		3
COLA Multicultural		3
Major-Specific		
HST 101	Great Civs to 1300 (CT)	3
HST 102	World & West 1300-1850 (CT)	3
HST 103	The World Since 1850 (CT)	3

HST 200	History Methods Workshop	3
HST 230	American History to 1877 (CT)	3
HST 231	American Hist From 1877 (CT)	3
HST 400	Senior Seminar	3
United States History 300/400 Elective		
Select one of the following:		3
HST 250	Women in US History	
HST 303	American Military History	
HST 312	African-American History	
HST 330	Football and American Culture	
HST 333	American Colonial History	
HST 342	American Legal History	
HST 343	The US in the 1970s	
HST 344	The United States in the 1980s	
HST 347	Southern Women's History	
HST 360	Sports and Civil Rights	
HST 365	The Civil Rights Movement	
HST 366	Conspiracies in US History	
HST 405	Amer Diplomacy 1900-Pres	
HST 407	Sex and Sexuality in the US	
HST 408	History of LGBT Peoples	
HST 409	American Revolution	
HST 413	Hist Old South 1492-1860	
HST 414	Am Civil War & Reconstruc	
HST 415	Hist New South 1877-Pres	
HST 424	US Science & Technology	
HST 431	America in the Gilded Age	
HST 433	In Our Time-Am Since 1945	
HST 434	The Vietnam War	
HST 440	West Virginia History	
HST 443	20th Century US Womens Hst	
HST 444	US Popular Culture	
HST 451	History of Women in Sports	
HST 452	History of Sports in America	
European History 300/400 Elective		
Select one the following:		3
HST 219	Ancient History	
HST 220	European Hist Medieval	
HST 223	Rise & Fall Nazi Germany	
HST 304	Spanish History Since 1475	
HST 306	The Holocaust	
HST 392	Food Markets and Modernity	
HST 406	Tudor & Stuart England	
HST 421	Renaissance & Reformation	
HST 425	European Hist 1814-1914	
HST 426	European Hist 1914-Pres	
HST 428	Intel & Cult Hist Mod Eur	
HST 430	Soviet Russia and Beyond	
HST 446	Rise of Atlantic World	
HST 448	British History in Film	
HST 462	The Viking World	
HST 465	Medieval Britain	
World History 300/400 Elective		
Select one of the following:		3
HST 208	The Developing World (CT)	
HST 218	Ancient Egypt	
HST 260	Rise of Islam 570-1750	
HST 265	Modern East Asia	
HST 301	Lat Am Discovery-Independ	
HST 302	Lat Am Independence-Pres	
HST 305	Drug Wars	
HST 307	The Global Cold War	
HST 311	World War I	
HST 361	The Modern Middle East	
HST 362	The Crusades	
HST 378	Modern Asia	
HST 380	Asia to 1600	
HST 390	Food in World History	
HST 392	Food Markets and Modernity	
HST 427	The World at War	
HST 435	Modern Japan	
HST 436	Modern China	
HST 439	Modern China through Film	
HST 445	Arab-Israeli Conflict	
HST 446	Rise of Atlantic World	
HST 447	Film and Empire	
HST 467	Fashion and Textile History	
300/400 History Elective		3
300/400 History Elective		3
Free Elective		3
Free Elective		3
Free Elective		3
Free Elective		3
Free Elective		3
Free Elective		1

Major Information

- The total number of free electives will depend on the amount of double and triple counting of requirements.
- See course attributes each semester for courses that meet multiple requirements.
- Questions about requirements should be directed to the College of Liberal Arts (304-696-2350). Core II and COLA requirements may not be double counted.
- Forty-eight credit hours (sixteen 3-hour courses) must be at the 300/400 level.
- Students must earn a *C* or better in ENG 201 Advanced Composition and all foreign language courses.
- Minimum of 120 hours to graduate.
- At least twelve credit hours in History must be in courses above the 200 level.

- General Education Course

- Milestone course: a key success marker for your major. See your advisor to discuss the importance of this course in your plan of study.

Four Year Plan

The study of History provides an essential component of liberal arts education and offers valuable preparation for careers in law, journalism, teaching, government, the ministry, library and museum work, and in those areas of the business world where a knowledge of foreign a fairs and culture is desirable. History also serves as an indispensable adjunct to careers in the humanities and social sciences. More broadly, by exposure to a variety of cultures and human experiences, the discipline of History seeks to prepare students for the responsibilities of citizenship and for dealing with the ambiguities of human existence. The Department of History at Marshall also makes every effort to help students think critically, to view events with perspective and objectivity, and to appreciate the complexity of human experience and the difficulty of interpreting it.

Course	Title	Credit Hours
First Year		
First Semester		
CMM 103	Fund Speech-Communication	3
ENG 101	Beginning Composition	3
FYS 100	First Yr Sem Critical Thinking	3
Core II Fine Arts		3
HST 101	Great Civs to 1300 (CT)	3
UNI 100	Freshman First Class	1
	Credit Hours	**16**
Second Semester		
ENG 201	Advanced Composition	3
MTH 121	Concepts and Applications (CT)	3
Core II Physical/Natural Science		4
HST 102	World & West 1300-1850 (CT)	3
HST 230	American History to 1877 (CT)	3
	Credit Hours	**16**
Second Year		
First Semester		
Core II Humanities		3
HST 231	American Hist From 1877 (CT)	3
Foreign Language 101		3
HST 103	The World Since 1850 (CT)	3
COLA Physical/Natural Science		4
	Credit Hours	**16**
Second Semester		
HST 200	History Methods Workshop	3
300-400 European History		3
Foreign Language 102		3
Free Elective		3
Free Elective		3
	Credit Hours	**15**
Third Year		
First Semester		
Writing Intensive		3
Foreign Language 203		3
300/400 US History		3
COLA Social Science (not HST)		3
COLA Literature		3
	Credit Hours	**15**
Second Semester		
Writing Intensive		3
Foreign Language 204		3
COLA Literature		3
COLA Social Science (not HST)		3
Free Elective		3
	Credit Hours	**15**
Fourth Year		
First Semester		
HST 400	Senior Seminar	3
300/400 World History Elective		3
COLA Multicultural		3
Free Elective		3
Free Elective		3
	Credit Hours	**15**
Second Semester		
COLA International		3
COLA Humanities		3
300/400 History Elective		3
300/400 History Elective		3
	Credit Hours	**12**
	Total Credit Hours	**120**

History, Minor

Code	Title	Credit Hours
Select two of the following general surveys courses:		6
HST 101	Great Civs to 1300 (CT)	
HST 102	World & West 1300-1850 (CT)	
HST 103	The World Since 1850 (CT)	
HST 230	American History to 1877 (CT)	
HST 231	American Hist From 1877 (CT)	
All courses offered by the History Department are acceptable.		9
Total Credit Hours		**15**

Teaching, M.A.T.

History majors should explore as early as possible in their undergraduate program the graduate option of the Master of Arts in Teaching. The MAT combines the academic content of a history undergraduate degree with graduate professional education and clinical experiences. The MAT provides an alternative and accelerated means for teaching certification in grades 5-12. For information please see https://www.marshall.edu/coepd/m-a-t/.

United States History, Minor

Code	Title	Credit Hours
Select both of the general surveys of United States History courses:		
HST 230	American History to 1877 (CT)	3
HST 231	American Hist From 1877 (CT)	3
All courses in United States History offered by the History Department are acceptable.		9
Total Credit Hours		**15**

World History, Minor

Code	Title	Credit Hours
Select two of the following general surveys of World History courses:		6
HST 101	Great Civs to 1300 (CT)	
HST 102	World & West 1300-1850 (CT)	
HST 103	The World Since 1850 (CT)	
All courses on the history of Africa, Asia, the Developing World, Latin America and the Middle East offered by the History Department are acceptable.		9
Total Credit Hours		**15**

Department of Modern Languages

Contacts: Dr. Rosario Quintana-Villamandos, Chair
Website: http://www.marshall.edu/language/

language@marshall.edu

The study of foreign languages emphasizes the development of critical thinking skills—increased powers of observation, analysis, logical reasoning, memory, and adaptability—that are immediately transferable to other areas of higher education and to a diversity of careers. In learning to understand, speak, read, and write a foreign language a student acquires direct access to another view of the world at a time when intercultural understanding, at both the national and international levels, has become an urgent priority.

Languages

Students can fulfill their foreign language requirement by taking 12 hours of French, German, Greek, Japanese, Latin, or Spanish (101-204) or by passing the 204 course in any of the languages offered by the department. The Department of Modern Languages offers a major in French, Japanese, and Spanish; or a minor in French, German, Japanese, and Spanish. The department has created special designators, MDL 280 Special Topics-MDL 283 Special Topics and MDL 480 Special Topics-MDL 483 Special Topics, in order to offer courses in languages not in the catalog that may be offered from time to time. The MDL designators also allow students to transfer credit in languages not regularly taught in this department.

Opportunities

Majors in foreign languages have opportunities in the fields of law, government, translation and interpretation, education, communications media, library and museum science, publishing, law enforcement, international business, and the travel industry.

Major in a Modern Language

A major in one of the modern foreign languages consists of ten courses, typically thirty semester hours, in the same language. Courses taken at Marshall are three credit hours each. Courses that transfer from study abroad may transfer as four credit hours, but each of these courses is to be considered equivalent to one three-hour Marshall course. Courses numbered 101 do not count toward the major.

Course Sequence/ Prerequisites

Courses must be taken in sequence except by permission of the chair. Students enrolled without proper course prerequisites will be administratively withdrawn. A grade of *C* or better is required in the 101, 102, 112, and 203 language courses in order to continue to the next course.

Placement Tests

Students who have had 1-2 years of language in high school and wish to continue in that language should register for 101. Students who have had three or more years of a language in high school should take a placement test to see where in the elementary/intermediate (101-204) sequence they should begin their language. All students wishing to take a placement exam in any of the languages (French, Japanese or Spanish) must register with the department office administrator. Students cannot take a placement examination after they have started a language at Marshall or any other university. Students also should not take the placement test until they are ready to start a language. Students who successfully place into a course above 101 can receive up to nine hours back credit for the courses they have placed out of provided that they take and pass with a grade of *C* or better the next course in the sequence. Back credit is awarded only in the semester in which the student takes the next course.

Policy on Native Speakers

A native or heritage speaker of a language must take a placement test before enrolling in courses numbered 101-204 in his or her native tongue.

Credit Transfer

The Department of Modern Languages does not accept the transfer of credits earned in courses taken in online courses. Students wishing to receive foreign language credit from other schools or from study abroad programs must consult the Department of Modern Languages prior to enrolling in any of those programs.

Capstone Policy and Final Skills Assessment

Graduating majors in French will designate one 400-level literature or culture course in their senior year as the capstone experience. In exceptional cases another upper-division course may be so designated with permission of the chair. In addition to completing the normal

capstone course requirements the student will also complete a language project that will demonstrate his/her integration of the various competencies developed throughout his or her foreign language study. The project will be delivered in a class presentation toward the end of the term. Graduating majors in Japanese and Spanish will take JPN 490 Japanese Capstone or SPN 490 Spanish Capstone Experience to fulfill their capstone requirement.

Summer Study Programs Abroad

Spanish Language and Culture Program in Madrid, Spain

Students can earn six hours of academic credit in a month (June or July) or twelve hours of academic credit in two months (June and July) by studying at the Centro de Estudios Hispánicos of the Universidad Antonio de Nebrija in Madrid, Spain. The program offers courses in the Spanish language at elementary, intermediate, and advanced levels. It also offers courses in composition, conversation, literature, history and art. The instructors are native speakers of Spanish who hold advanced university degrees and who are fully accredited by the Spanish Ministry of Education. A Marshall University professor will accompany the group and will provide supervision, assistance and supplemental instruction.

Every year the students enrolled in the program depart the 30th of May and return June 30 or July 31st. While in Madrid, students reside with families. The cost of the program includes tuition (6 or 12 hours) and room and board (two meals a day) for a month or two. Contact the Dept. of Modern Languages for specific information and to obtain application forms.

Programs

- French, B.A. (p. 305)
- French, Minor (p. 306)
- German, Minor (p. 307)
- Japanese Studies, Minor (p. 307)
- Japanese, B.A. (p. 307)
- Japanese, Minor (p. 309)
- Spanish Studies, Minor (p. 309)
- Spanish, B.A. (p. 309)
- Spanish, Minor (p. 310)

Courses

- General Education Course

French

FRN 101 Elementary French I **3 Credit hours**
Pronunciation, conversation, reading, and composition with emphasis on aural/oral development. Pronunciation, conversation, reading, and composition with emphasis on aural/oral development.
Grade Mode: Normal Grading Mode

FRN 102 Elementary French II **3 Credit hours**
Pronunciation, conversation, reading, and composition with emphasis on aural/oral development. Pronunciation, conversation, reading, and composition with emphasis on aural/oral development.
Pre-req: FRN 101 with a minimum grade of C.
Grade Mode: Normal Grading Mode

FRN 203 Intermediate French III **3 Credit hours**
Continuation on the intermediate level of the basic language skills: pronunciation, conversation, reading, and composition with emphasis on aural/oral development. Continuation on the intermediate level of the basic language skills: pronunciation, conversation, reading, and composi- tion with emphasis on aural/oral development.
Pre-req: FRN 102 with a minimum grade of C or FRN 112 with a minimum grade of C.
Grade Mode: Normal Grading Mode

FRN 204 Intermediate French IV **3 Credit hours**
Development of practical conversational skills, reading for comprehension, and directed composition. Development of practical conversational skills, reading for comprehension, and directed composition.
Pre-req: FRN 203 with a minimum grade of C.
Attributes: Foreign Language
Grade Mode: Normal Grading Mode

FRN 240 French Society & Life **3 Credit hours**
Selected topics relating to culture and life in the Frenchspeaking countries. Lectures, readings, and discussions in English. Selected topics relating to culture and life in the French- speaking countries. Lectures, readings, and discussions in English.
Attributes: Core II Humanities, International
Grade Mode: Normal Grading Mode

FRN 280 Special Topics **1-4 Credit hours**
Pre-req: FRN 204.
Grade Mode: Normal Grading Mode

FRN 281 Special Topics **1-4 Credit hours**
Pre-req: FRN 204.
Grade Mode: Normal Grading Mode

FRN 282 Special Topics **1-4 Credit hours**
Pre-req: FRN 204.
Grade Mode: Normal Grading Mode

FRN 283 Special Topics **1-4 Credit hours**
Pre-req: FRN 204.
Grade Mode: Normal Grading Mode

FRN 304 Masterpieces in Trans **3 Credit hours**
This course deals with major works of French literature and requires no prior background in French literature history. The course will be conducted in English. This course deals with major works of French literature and requires no prior background in French literature history. The course will be conducted in English.
Attributes: Literature
Grade Mode: Normal Grading Mode

FRN 305 Intro to FRN Comp & Conv **3 Credit hours**
Writing/Speaking intensive course designed to develop communicative skills and review language fundamentals acquired in FRN 101 204 sequence (2 years). Course taught in French. PR: FRN 204) Writing/ Speaking intensive course designed to develop communicative skills and review language fundamentals acquired in FRN 101 - 204 sequence (2 years). Course taught in French. PR: FRN 204)
Pre-req: FRN 204 with a minimum grade of D.
Grade Mode: Normal Grading Mode

FRN 315 Adv Grammar & Composition **3 Credit hours**
Study of idioms, grammatical structure, and syntax with emphasis on free composition, use of language laboratory, and formal study of the art of translation from English to French. Study of idioms, grammatical structure, and syntax with em- phasis on free composition, use of language laboratory, and formal study of the art of translation from English to French.
Pre-req: FRN 204.
Grade Mode: Normal Grading Mode

FRN 317 Survey French Literature **3 Credit hours**
A study of important literary movements, representative authors and their works from the Middle Ages to present. A study of important literary movements, representative authors and their works from the Middle Ages to present.
Pre-req: FRN 204.
Attributes: Literature
Grade Mode: Normal Grading Mode

FRN 323 Adv Frn Gram & Oral Com **3 Credit hours**
Analysis of grammatical structures and introduction to phonetics. Oral and written exercises, presentations, and discussion. Course conducted mainly in French. (PR: FRN 204) Analysis of grammatical structures and introduction to phonetics. Oral and written exercises, presentations, and discussion. Course conducted mainly in French. (PR: FRN 204)
Pre-req: FRN 204.
Grade Mode: Normal Grading Mode

FRN 335 Frn Civilization and Culture **3 Credit hours**
Pre-req: FRN 204.
Grade Mode: Normal Grading Mode

FRN 401 17th Century French Theater **3 Credit hours**
Study of representative plays by the classical dramatists Corneille, Moliere, and Racine. This course is conducted entirely in French. Study of representative plays by the classical dramatists Corneille, Moliere, and Racine. This course is conducted entirely in French.
Pre-req: FRN 305 or FRN 306 or FRN 315 or FRN 316 or FRN 317 or FRN 318 or FRN 323 or FRN 324 or FRN 335 or FRN 336.
Attributes: Literature
Grade Mode: Normal Grading Mode

FRN 402 18th Century French Lit **3 Credit hours**
Study of representative works by the philosophes, Montesquieu, Rousseau, Voltaire, and Diderot. The course will be conducted in French. (PR: FRN 204) Study of representative works by the philosophes, Montesquieu, Rousseau, Voltaire, and Diderot. The course will be conducted in French. (PR: FRN 204)
Pre-req: FRN 305 or FRN 306 or FRN 315 or FRN 316 or FRN 317 or FRN 318 or FRN 323 or FRN 324 or FRN 335 or FRN 336.
Attributes: Literature
Grade Mode: Normal Grading Mode

FRN 403 19th Century French Novel **3 Credit hours**
A study of major novels chosen to illustrate the romantic, realistic, and naturalistic literary movements. The course is conducted in French. A study of major novels chosen to illustrate the romantic, realistic, and naturalistic literary movements. The course is conducted in French.
Pre-req: FRN 305 or FRN 306 or FRN 315 or FRN 316 or FRN 317 or FRN 318 or FRN 323 or FRN 324 or FRN 335 or FRN 336.
Attributes: Literature
Grade Mode: Normal Grading Mode

FRN 404 20th Century French Novel **3 Credit hours**
A study of representative 20th Century French novels by Proust, Malraux, Sartre, Camus, Robbe-Grillet. The course will be taught in French. A study of representative 20th Century French novels by Proust, Malraux, Sartre, Camus, Robbe-Grillet. The course will be taught in French.
Pre-req: FRN 305 or FRN 306 or FRN 315 or FRN 316 or FRN 317 or FRN 318 or FRN 323 or FRN 324 or FRN 335 or FRN 336.
Attributes: International
Grade Mode: Normal Grading Mode

FRN 417 Contemporary Frn Film **3 Credit hours**
Course on selected films by French directors of the New Wave and the Post New-Wave period.
Grade Mode: Normal Grading Mode

FRN 425 Devel of French Prose I **3 Credit hours**
An analysis of the important works that mark the evolution of French Prose writers from the Middle Ages through the 18th Century. Readings and discussions are in French. An analysis of the important works that mark the evolution of French Prose writers from the Middle Ages through the 18th Century. Readings and discussions are in French.
Pre-req: FRN 204.
Grade Mode: Normal Grading Mode

FRN 427 Dev Frn Poetry-Theater I **3 Credit hours**
A study of literary works illustrating the development of poetry and theater in France from the Middle Ages through the 18th Century. A study of literary works illustrating the development of poetry and theater in France from the Middle Ages through the 18th Century.
Pre-req: FRN 317 and FRN 318.
Grade Mode: Normal Grading Mode

FRN 480 Special Topics **1-4 Credit hours**
A course for advanced students sufficiently prepared to do constructive work in phases of the language or literature of interest to them. A course for advanced students sufficiently prepared to do constructive work in phases of the language or literature of interest to them.
Pre-req: FRN 305 or FRN 306 or FRN 315 or FRN 316 or FRN 317 or FRN 318 or FRN 323 or FRN 324 or FRN 335 or FRN 336.
Grade Mode: Normal Grading Mode

FRN 481 Special Topics **1-4 Credit hours**
A course for advanced students sufficiently prepared to do constructive work in phases of the language or literature of interest to them. A course for advanced students sufficiently prepared to do constructive work in phases of the language or literature of interest to them.
Pre-req: FRN 305 or FRN 306 or FRN 315 or FRN 316 or FRN 317 or FRN 318 or FRN 323 or FRN 324 or FRN 335 or FRN 336.
Grade Mode: Normal Grading Mode

FRN 485 Independent Study **1-4 Credit hours**
Pre-req: FRN 305 or FRN 306 or FRN 315 or FRN 316 or FRN 317 or FRN 318 or FRN 323 or FRN 324 or FRN 335 or FRN 336.
Grade Mode: Normal Grading Mode

FRN 486 Independent Study **1-4 Credit hours**
Pre-req: FRN 305 or FRN 306 or FRN 315 or FRN 316 or FRN 317 or FRN 318 or FRN 323 or FRN 324 or FRN 335 or FRN 336.
Grade Mode: Normal Grading Mode

FRN 487 Independent Study **1-4 Credit hours**
Pre-req: FRN 305 or FRN 306 or FRN 315 or FRN 316 or FRN 317 or FRN 318 or FRN 323 or FRN 324 or FRN 335 or FRN 336.
Grade Mode: Normal Grading Mode

FRN 488 Independent Study **1-4 Credit hours**
Pre-req: FRN 305 or FRN 306 or FRN 315 or FRN 316 or FRN 317 or FRN 318 or FRN 323 or FRN 324 or FRN 335 or FRN 336.
Grade Mode: Normal Grading Mode

German

GER 101 Elementary German I **3 Credit hours**
Pronunciation, conversation, reading, and composition with an emphasis on aural/oral development. Pronunciation, conversation, reading, and composition with an emphasis on aural/oral development.
Grade Mode: Normal Grading Mode

GER 102 Elementary German II **3 Credit hours**
Pronunciation, conversation, reading, and composition with an emphasis on aural/oral development. Pronunciation, conversation, reading, and composition with an emphasis on aural/oral development.
Pre-req: GER 101 with a minimum grade of C.
Grade Mode: Normal Grading Mode

GER 203 Intermediate German I **3 Credit hours**
Continuation on the intermediate level of the basic language skills: pronunciation, conversation, reading, and composition with an emphasis on aural/oral development. (PR: GER 102 or 3 units of high school German) Continuation on the intermediate level of the basic language skills: pronunciation, conversation, reading, and composition with an emphasis on aural/oral development. (PR: GER 102 or 3 units of high school German)
Pre-req: GER 102 with a minimum grade of C.
Grade Mode: Normal Grading Mode

GER 204 Intermediate German II **3 Credit hours**
Continuation on the intermediate level of the basic language skills: pronunciation, conversation, reading and composition with an emphasis on aural/oral development. (PR: GER 203 or 4 units of high school German) Continuation on the intermediate level of the basic language skills: pronunciation, conversation, reading and composition with an emphasis on aural/oral development. (PR: GER 203 or 4 units of high school German)
Pre-req: GER 203 with a minimum grade of C.
Attributes: Foreign Language
Grade Mode: Normal Grading Mode

GER 240 German Society & Life **3 Credit hours**
Study of selected topics relating to culture and life in the German speaking countries. Lectures, readings, and discussions in English, No prerequisite. Study of selected topics relating to culture and life in the German speaking countries. Lectures, readings, and dis- cussions in English, No prerequisite.
Attributes: Core II Humanities, International
Grade Mode: Normal Grading Mode

GER 280 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

GER 281 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

GER 315 Advanced Grammar, Conv, Comp **3 Credit hours**
Study of idioms, grammatical structure, and syntax through conversation and composition.
Pre-req: GER 204.
Grade Mode: Normal Grading Mode

GER 316 Advanced Grammar & Conv & Comp **3 Credit hours**
Study of idioms, grammatical structure, and syntax through conversation and composition.
Pre-req: GER 204.
Grade Mode: Normal Grading Mode

GER 425 Grimm's Fairy Tales **3 Credit hours**
Taught in English this course will focus on many of the Brothers Grimm's collection of 279 fairy tales, augmented by additional readings and film showings.
Attributes: Literature
Grade Mode: Normal Grading Mode

GER 480 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

GER 481 Special Topics **1-4 Credit hours**
Pre-req: GER 204.
Grade Mode: Normal Grading Mode

GER 485 Independent Study **1-4 Credit hours**
Pre-req: GER 204.
Grade Mode: Normal Grading Mode

GER 486 Independent Study **1-4 Credit hours**
Pre-req: GER 204.
Grade Mode: Normal Grading Mode

Japanese

JPN 101 Elementary Japanese I **3 Credit hours**
Pronunciation, conversation, reading and composition with emphasis on aural/oral devalopment. This includes katakana, hiragana, and Chinese characters, used in context. Pronunciation, conversation, reading and composition with emphasis on aural/oral devalopment. This includes katakana, hiragana, and Chinese characters, used in context.
Grade Mode: Normal Grading Mode

JPN 102 Elementary Japanese II **3 Credit hours**
Pronunciation, conversation, reading and composition with emphasis on aural/oral development. This includes katakana, hiragana and Chinese characters, used in context.
Pre-req: JPN 101 with a minimum grade of C.
Grade Mode: Normal Grading Mode

JPN 203 Intermediate Japanese III **3 Credit hours**
Continuation on the intermediate level of the basic skills: pronunciation, conversation, reading, and composition with emphasis on aural/oral development. More work on katakana, hiragana and Chinese characters, used in context.
Pre-req: JPN 102 with a minimum grade of C.
Grade Mode: Normal Grading Mode

JPN 204 Intermediate Japanese IV **3 Credit hours**
Development of practical conversational skills, reading for comprehension, and directed compositions.
Pre-req: JPN 203 with a minimum grade of C.
Attributes: Foreign Language
Grade Mode: Normal Grading Mode

JPN 240 Japanese Culture (CT) **3 Credit hours**
An introduction course of Japanese society and culture through Japanese films, readings, and lectures. This course examines social, political and cultural themes in contemporary Japanese society. Course taught in English. An introduction course of Japanese society and culture through Japanese films, readings, and lectures. This course examines social, political and cultural themes in contemporary Japanese society. Course taught in English.
Attributes: Critical Thinking, Core II Humanities, International
Grade Mode: Normal Grading Mode

JPN 245 Modern Japanese Lit (CT) **3 Credit hours**
Taught in English, course examines Japanese literature from the mid-nineteenth century to the present day.
Attributes: Critical Thinking, Core II Humanities, International, Literature
Grade Mode: Normal Grading Mode

JPN 250 Japanese Anime & Manga (CT) **3 Credit hours**
Taught in English, this course examines the history and nature of Japanese animation (anime) and comics (manga).
Attributes: Critical Thinking, Core II Humanities, International, Literature
Grade Mode: Normal Grading Mode

JPN 280 Japanese Special Topics **1-4 Credit hours**
Study of a topic not normally covered in courses. Study of a topic not normally covered in courses.
Pre-req: JPN 204.
Grade Mode: Normal Grading Mode

JPN 281 Japanese Special Topics **1-4 Credit hours**
Study of a topic not normally covered in courses. Study of a topic not normally covered in courses.
Pre-req: JPN 204.
Grade Mode: Normal Grading Mode

JPN 282 Japanese Special Topics **1-4 Credit hours**
Study of a topic not normally covered in courses. Study of a topic not normally covered in courses.
Pre-req: JPN 204.
Grade Mode: Normal Grading Mode

JPN 283 Japanese Special Topics **1-4 Credit hours**
Study of a topic not normally covered in courses. Study of a topic not normally covered in courses.
Pre-req: JPN 204.
Grade Mode: Normal Grading Mode

JPN 304 Premodern Japanese Literature **3 Credit hours**
This course introduces a comprehensive overview of the history of Japanese literature from the earliest times to the mid-nineteenth century. Course taught in English. This course introduces a comprehensive overview of the history of Japanese literature from the earliest times to the mid-nineteenth century. Course taught in English.
Attributes: Literature
Grade Mode: Normal Grading Mode

JPN 305 Advanced Japanese I **3 Credit hours**
Equal emphasis on listening, speaking, reading and writing. Students learn advanced new Kanji characters. The course includes preparation for the Japanese Proficiency Exam. Course taught in Japanese. Equal emphasis on listening, speaking, reading and writing. Students learn advanced new Kanji characters. The course includes preparation for the Japanese Proficiency Exam. Course taught in Japanese.
Pre-req: JPN 204.
Grade Mode: Normal Grading Mode

JPN 307 Japanese Conversation **3 Credit hours**
Speaking intensive course designed to develop communicative skills and review language fundamentals acquired in JPN 101-204 course sequence. Course taught in Japanese. Speaking intensive course designed to develop communicative skills and review language fundamentals acquired in JPN 101-204 course sequence. Course taught in Japanese.
Pre-req: JPN 204.
Grade Mode: Normal Grading Mode

JPN 315 Advanced Japanese II **3 Credit hours**
Equal emphasis on listening, speaking, reading, and writing skills. Students learn advanced grammar and 100 Kanji characters. The course includes preparation for the Japanese Proficiency Exam. Course taught in Japanese. Equal emphasis on listening, speaking, reading, and writing skills. Students learn advanced grammar and 100 Kanji characters. The course includes preparation for the Japanese Proficiency Exam. Course taught in Japanese.
Pre-req: JPN 305 with a minimum grade of D.
Grade Mode: Normal Grading Mode

JPN 325 Business Japanese **3 Credit hours**
Students learn conversational expressions and Japanese manners that can be used in actual business situations in Japanese companies. Students learn conversational expressions and Japanese manners that can be used in actual business situations in Japanese companies.
Pre-req: JPN 204 with a minimum grade of D.
Grade Mode: Normal Grading Mode

JPN 330 Japanese Grammar **3 Credit hours**
A review of intermediate level of Japanese grammar equivalent to N3 and N4 JLPT (Japanese Language Proficiency Test). It familiarizes students with test components including vocabulary, reading, grammer, and listening.
Pre-req: JPN 204.
Grade Mode: Normal Grading Mode

JPN 335 JPN Society & Culture **3 Credit hours**
Am introduction course of Japanese society and culture through Japanese films, readings and lectures. This course examines social, political and cultural themes in contemporary Japanese society. Course taught in Japanese. Am introduction course of Japanese society and culture through Japanese films, readings and lectures. This course examines social, political and cultural themes in contemporary Japanese society. Course taught in Japanese.
Pre-req: JPN 204.
Attributes: International
Grade Mode: Normal Grading Mode

JPN 401 Readings in Adv Japanese I **3 Credit hours**
Students learn comprehensive skills in contemporary Japanese at advanced level and 250 new kanji. Students conduct a presentation in Japanese. Course taught in Japanese. Students learn comprehensive skills in contemporary Japanese at advanced level and 250 new kanji. Students conduct a presentation in Japanese. Course taught in Japanese.
Pre-req: JPN 315 or JPN 316.
Attributes: International
Grade Mode: Normal Grading Mode

JPN 402 Readings in Adv Japanese II **3 Credit hours**
Students continue to learn comprehensive skills in contemporary Japanese at advanced level and 250 new kanji. Students conduct survey research in Japanese. Course taught in Japanese. Students continue to learn comprehensive skills in contemporary Japanese at advanced level and 250 new kanji. Students conduct survey research in Japanese. Course taught in Japanese.
Pre-req: JPN 401.
Attributes: International, No Textbook Required
Grade Mode: Normal Grading Mode

JPN 403 Japanese Film in English **3 Credit hours**
A survey of Japanese cinema from literary,historical, cultural and interdisciplinary perspectives. Readings and lectures introduce the director's work and the backgrounds of individual films. Course taught in English. A survey of Japanese cinema from literary,historical, cultural and interdisciplinary perspectives. Readings and lectures introduce the director's work and the backgrounds of individual films. Course taught in English.
Grade Mode: Normal Grading Mode

JPN 408 Lit Asians in Americas **3 Credit hours**
Taught in English, this course explores Asian American literature in the U.S., Canada, Latin America, and the Caribbean, focusing on race, class and gender.
Pre-req: ENG 101.
Attributes: International
Grade Mode: Normal Grading Mode

JPN 480 Japanese Special Topics **1-4 Credit hours**
Study of a topic not normally covered in courses. Study of a topic not normally covered in courses.
Pre-req: JPN 204.
Grade Mode: Normal Grading Mode

JPN 481 Japanese Special Topics **1-4 Credit hours**
Study of a topic not normally covered in courses. Study of a topic not normally covered in courses.
Pre-req: JPN 204.
Grade Mode: Normal Grading Mode

JPN 482 Japanese Special Topics **1-4 Credit hours**
Study of a topic not normally covered in courses. Study of a topic not normally covered in courses.
Pre-req: JPN 204.
Grade Mode: Normal Grading Mode

JPN 483 Japanese Special Topics **1-4 Credit hours**
Study of a topic not normally covered in courses. Study of a topic not normally covered in courses.
Pre-req: JPN 204.
Grade Mode: Normal Grading Mode

JPN 485 Independent Study **1-4 Credit hours**
Pre-req: JPN 204.
Grade Mode: Normal Grading Mode

JPN 486 Independent Study **1-4 Credit hours**
Pre-req: JPN 204.
Grade Mode: Normal Grading Mode

JPN 487 Independent Study **1-4 Credit hours**
Grade Mode: Normal Grading Mode

JPN 488 Independent Study **1-4 Credit hours**
Grade Mode: Normal Grading Mode

JPN 490 Japanese Capstone **3 Credit hours**
Designed for Japanese majors as a senior capstone seminar. Students develop specific skills to conduct research on chosen topics and to present a research project in Japanese. Designed for Japanese majors as a senior capstone seminar. Students develop specific skills to conduct research on chosen topics and to present a research project in Japanese.
Pre-req: JPN 401.
Attributes: International
Grade Mode: Normal Grading Mode

Spanish

SPN 101 Introductory Spanish **3 Credit hours**
Pronunciation, vocabulary and basic language structures. For students with no foreign language experience. Pronunciation, vocabulary and basic language structures. For students with no foreign language experience.
Grade Mode: Normal Grading Mode

SPN 102 Introductory Spanish II **3 Credit hours**
Pronunciation, vocabulary and basic language structures. For students with no foreign language experience. Pronunciation, vocabulary and basic language structures. For students with no foreign language experience.
Pre-req: SPN 101 with a minimum grade of C.
Grade Mode: Normal Grading Mode

SPN 112 Elementary Spanish **3 Credit hours**
Emphasis on oral communication and listening comprehension, some reading and writing. For students who have had two years or more of high school Spanish. Emphasis on oral communication and listening comprehension, some reading and writing. For students who have had two years or more of high school Spanish.
Grade Mode: Normal Grading Mode

SPN 203 Intermediate Spanish III **3 Credit hours**
Emphasis on oral and written communication. Conversation and composition. Intermediate language structures. Emphasis on oral and written communication. Conversation and composition. Intermediate language structures.
Pre-req: SPN 102 with a minimum grade of C or SPN 112 with a minimum grade of C.
Grade Mode: Normal Grading Mode

SPN 204 Intermediate Spanish IV **3 Credit hours**
Development of practical conversational skills, reading for comprehension, and diredted compositions. Development of practical conversational skills, reading for comprehension, and diredted compositions.
Pre-req: SPN 203 with a minimum grade of C.
Attributes: Foreign Language
Grade Mode: Normal Grading Mode

SPN 240 Hispanic Culture (CT) **3 Credit hours**
Taught in English, this course examines Hispanic cultures through literature and cinema.
Attributes: Critical Thinking, Core II Humanities, International
Grade Mode: Normal Grading Mode

SPN 245 Chicano/a Identities (CT) **3 Credit hours**
Taught in English, this course examines the Chicano Movement as a civil rights movement, as well as cultural and artisitic movement.
Attributes: Critical Thinking, Core II Humanities
Grade Mode: Normal Grading Mode

SPN 280 Special Topics **1-4 Credit hours**
Pre-req: SPN 204.
Grade Mode: Normal Grading Mode

SPN 281 Special Topics **1-4 Credit hours**
Pre-req: SPN 204.
Grade Mode: Normal Grading Mode

SPN 282 Special Topics **1-4 Credit hours**
Pre-req: SPN 204.
Grade Mode: Normal Grading Mode

SPN 283 Special Topics **1-4 Credit hours**
Pre-req: SPN 204.
Grade Mode: Normal Grading Mode

SPN 305 Intro to SPN Conversation I **3 Credit hours**
Speaking intensive course designed to develop conversational skills and to review fundamentals acquired in SPN 101-204 sequence. Course taught in Spanish. (PR: SPN 204).
Pre-req: SPN 204 with a minimum grade of D.
Grade Mode: Normal Grading Mode

SPN 306 Intro To SPN Conversation II **3 Credit hours**
Speaking intensive course designed to develop conversational skills and to review fundamentals acquired in SPN 101-204 sequence. Course taught in Spanish. (PR: SPN 204).
Pre-req: SPN 204.
Grade Mode: Normal Grading Mode

SPN 307 Spanish for Law Enforcement **3 Credit hours**
Course designed to help Law Enforcement students develop language skills and acquire a specialized vocabulary which will enable them to interact professionally with the Hispanic Community. (PR: SPN 204)
Course designed to help Law Enforcement students develop language skills and acquire a specialized vocabulary which will enable them to interact professionally with the Hispanic Community. (PR: SPN 204)
Pre-req: SPN 204.
Grade Mode: Normal Grading Mode

SPN 315 Intro to Composition I **3 Credit hours**
A review of Spanish grammar with an emphasis on written compositions. Course taught in Spanish. (PR: SPN 305/306 or permission).
Pre-req: SPN 204.
Grade Mode: Normal Grading Mode

SPN 316 Intro to Composition II **3 Credit hours**
A review of Spanish grammar with an emphasis on written compositions. Course taught in Spanish. (PR: SPN 305/306 or permission).
Pre-req: SPN 204.
Grade Mode: Normal Grading Mode

SPN 323 Adv Grammar and Oral Comm **3 Credit hours**
Analysis of grammatical structures. Introduction to phonetics and applied linguistics and oral practice in various discourse types such as conversation, narration, discussion/debate, presentation, course conducted mainly in Spanish. Analysis of grammatical structures. Introduction to phonetics and applied linguistics and oral practice in various discourse types such as conversation, narration, discussion/debate, presentation, course conducted mainly in Spanish.
Pre-req: SPN 204.
Grade Mode: Normal Grading Mode

SPN 324 Adv Gram & Oral Com II **3 Credit hours**
Analysis of grammatical structures. Introduction to phonetics and applied linguistics and oral practice in various discourse types such as conversation, narration, discussion/debate, presentation. Course conducted mainly in Spanish. Analysis of grammatical structures. Introduction to phonetics and applied linguistics and oral practice in various discourse types such as conversation, narration, discussion/debate, presentation. Course conducted mainly in Spanish.
Pre-req: SPN 204.
Grade Mode: Normal Grading Mode

SPN 325 Commercial Spanish **3 Credit hours**
A study of Spanish used in international business and commerce, emphasizing specialized vocabulary, forms and procedures in commercial communication, and of the Hispanic business world through its language and culture.
Pre-req: SPN 204.
Grade Mode: Normal Grading Mode

SPN 335 Latin Am Culture & Civiliza **3 Credit hours**
A study of the civilization of the Latin American countries and their contributions to world culture. Course conducted in Spanish. A study of the civilization of the Latin American countries and their contributions to world culture. Course conducted in Spanish.
Pre-req: SPN 204.
Attributes: Multicultural
Grade Mode: Normal Grading Mode

SPN 336 Spain: Culture & Civilization **3 Credit hours**
A study of the civilization of Spain and its contribution to world culture. Course conducted in Spanish. A study of the civilization of Spain and its contribution to world culture. Course conducted in Spanish.
Pre-req: SPN 204 with a minimum grade of D.
Attributes: Multicultural
Grade Mode: Normal Grading Mode

SPN 345 Ecocriticism in Latin America **3 Credit hours**
Taught in English, this course explores approaches to the ecological crisis in Latin America through a variety of texts including poetry, journalistic non-fiction, historical interpretation, and film.
Grade Mode: Normal Grading Mode

SPN 408 Latin American Women **3 Credit hours**
Taught in English, this course examines the interplay of cultural, ideological, and structural factors affecting women's lives in Latin America.
Pre-req: ENG 201 or ENG 102 or ENG 201H.
Grade Mode: Normal Grading Mode

SPN 411 Pre-Modern Latin Am Lit **3 Credit hours**
A study of representative Latin American literary works from Pre-Colonial and Colonial periods and the 19th century. Course taught in Spanish. (PR: SPN 315/316 or SPN 323/324 or permission.)
Pre-req: SPN 315 or SPN 316 or SPN 323 or SPN 324.
Attributes: International, Literature
Grade Mode: Normal Grading Mode

SPN 412 Contemporary Lat Am Lit **3 Credit hours**
A study of a selection of Latin American authors and works representative of the major literary movements in Latin America, from Modernism to present. Course taught in Spanish. (PR: SPN 315/316 or SPN 323/324 or permission)
Pre-req: SPN 323 or SPN 324 or SPN 315 or SPN 316.
Attributes: Literature
Grade Mode: Normal Grading Mode

SPN 413 Lit Genres & Issues in LA **3 Credit hours**
Study of poetry, fiction, drama, essays etc. in Latin America. At the discretion of the instuctor, literary genres will be crossed with approaches such as gender, race, religion, ethnicity, etc. Course taught in Spanish. (PR: SPN 315/316 or SPN 323/324 or permission).
Pre-req: SPN 315 or SPN 316 or SPN 323 or SPN 324.
Attributes: Literature
Grade Mode: Normal Grading Mode

SPN 414 Med, Ren & Gld Cnt Spn Lit **3 Credit hours**
Study of the representative Spanish authors and literary works and the major intellectual movements in peninsular literature from Medieval times to Spain's Golden Century. Course taught in Spanish. (PR: SPN 315/315 or SPN 323/324 or permission).
Pre-req: (SPN 315 with a minimum grade of D or SPN 316 with a minimum grade of D) or (SPN 323 with a minimum grade of D or SPN 324 with a minimum grade of D).
Attributes: Literature
Grade Mode: Normal Grading Mode

SPN 415 Spanish Lit: 18th & 19th Cent **3 Credit hours**
Study of the representative Spanish authors and the major intellectual movements in peninsular literature during the 18th and 19th centuries. Course taught in Spanish. (PR: SPN 315/316 or SPN 323/324 or permission).
Pre-req: SPN 315 or SPN 316 or SPN 323 or SPN 324.
Attributes: Literature
Grade Mode: Normal Grading Mode

SPN 416 Contemporary Spanish Lit **3 Credit hours**
Study of the representative Spanish authors and literary works and the major intellectual movements in peninsular literature from the Generation of 1898 to the present. Course taught in Spanish. (PR: SPN 315/316 or SPN 323/324 or permission).
Pre-req: SPN 315 or SPN 316 or SPN 323 or SPN 324.
Attributes: Literature
Grade Mode: Normal Grading Mode

SPN 417 Spanish Film **3 Credit hours**
Course on selected films by Spanish and Spanish-American directors and on films based on literature, with an emphasis on Spain. Reviews by contemporary film critics. Film and literary theory. (PR: SPN 204).
Pre-req: SPN 204.
Attributes: Literature
Grade Mode: Normal Grading Mode

SPN 418 Latin American Film **3 Credit hours**
Course on selected films by Spanish and Spanish-American directors and on films based on literature, with an emphasis on Latin and South America. Reviews by contemporary film critics.
Pre-req: SPN 204.
Attributes: Literature
Grade Mode: Normal Grading Mode

SPN 419 Against Oppression SPN LA Film **3 Credit hours**
Thematic study of films from Spain and Latin America that concern religious, sexual and sociopolitical oppression, violence and transgressions. Taught in English.
Pre-req: ENG 101 or ENG 101B or ENG 101P or ENG 160.
Grade Mode: Normal Grading Mode

SPN 420 Afro-Latin America **3 Credit hours**
Study of various modes of Afro-Latin cultural production, including literature, film, music and other Fine Arts with emphasis on the 20th and 21st centuries. Taught in English.
Pre-req: ENG 201 or ENG 102.
Attributes: International
Grade Mode: Normal Grading Mode

SPN 433 Int Adv Spn Gram **3 Credit hours**
This course will review and expand specific, advanced Spanish language structural points. it will include daily intensive practive in the four linguistic skills. Course taught in Spanish.
Pre-req: (SPN 315 or SPN 316) and (SPN 323 or SPN 324).
Grade Mode: Normal Grading Mode

SPN 435 Contemporary Latin Am Culture **3 Credit hours**
Course based on the origins of issues confronting contemporary Spain: the war and its aftermath, the transition to democracy and modernization, the European Union, terrorism, regional autonomy, feminism, and sexual identity.
Pre-req: SPN 315 or SPN 316 or SPN 323 or SPN 324.
Attributes: International
Grade Mode: Normal Grading Mode

SPN 436 Cult & Soc in Cont Spn **3 Credit hours**
Course based on origins of issues confronting contemporary Spain: the war's aftermath, transition to democracy and modernization, the European Union, terrorism, regional autonomy, feminism, sexual identity. Course taught in Spanish.
Pre-req: (SPN 315 or SPN 316) or (SPN 323 or SPN 324).
Attributes: Multicultural
Grade Mode: Normal Grading Mode

SPN 480 Special Topics **1-4 Credit hours**
Independent research for qualified students who are interested beyond the other courses in the catalog. Independent research for qualified students who are interested beyond the other courses in the catalog.
Pre-req: SPN 204.
Grade Mode: Normal Grading Mode

SPN 481 Special Topics **1-4 Credit hours**
Independent research for qualified students who are interested beyond the other courses in the catalog. Independent research for qualified students who are interested beyond the other courses in the catalog.
Pre-req: SPN 204.
Grade Mode: Normal Grading Mode

SPN 482 Special Topics **1-4 Credit hours**
Independent research for qualified students who are interested beyond the other courses in the catalog. Independent research for qualified students who are interested beyond the other courses in the catalog.
Pre-req: SPN 204.
Grade Mode: Normal Grading Mode

SPN 483 Special Topics **1-4 Credit hours**
Independent research for qualified students who are interested beyond the other courses in the catalog. Independent research for qualified students who are interested beyond the other courses in the catalog.
Pre-req: SPN 204.
Grade Mode: Normal Grading Mode

SPN 485 Independent Study **1-4 Credit hours**
Pre-req: SPN 204.
Grade Mode: Normal Grading Mode

SPN 486 Independent Study **1-4 Credit hours**
Pre-req: SPN 204.
Grade Mode: Normal Grading Mode

SPN 487 Independent Study **1-4 Credit hours**
Pre-req: SPN 204.
Grade Mode: Normal Grading Mode

SPN 488 Independent Study **1-4 Credit hours**
Pre-req: SPN 204.
Grade Mode: Normal Grading Mode

SPN 490 Spanish Capstone Experience **3 Credit hours**
Students develop skills to conduct research on a topic from their area of concentration and to present a research project in Spanish. (PR: two 400-level SPN courses or permission).
Attributes: Capstone Course
Grade Mode: Normal Grading Mode

Faculty

Professors
Burgueño, Migernier, Morillo, RIvas

Associate Professors
Anderson, Butler, Gratchev, Quintana-Villamandos

Assistant Professors
Day, Shangler

French, B.A.

Contacts:

- General Education Course

- Milestone course: a key success marker for your major. See your advisor to discuss the importance of this course in your plan of study.

Major

The Core Curriculum is designed to foster critical thinking skills and introduce students to basic domains of thinking that transcend disciplines. The Core applies to all majors. Information on specific classes in the Core can be found at https://www.marshall.edu/gened/.

Code	Title	Credit Hours
Core Curriculum		
Core 1: Critical Thinking		
FYS 100	First Yr Sem Critical Thinking	3
MTH 121	Concepts and Applications (CT)	3
Critical Thinking Course		3
Core 2		
ENG 101	Beginning Composition	3
ENG 201	Advanced Composition	3
CMM 103	Fund Speech-Communication	3
MTH 121	Concepts and Applications (CT)	3
Core II Natural/Physical Science		4
Core II Humanities (WI)		3
Core II Social Science		3
Core II Fine Arts		3
Additional University Requirements		
Writing Intensive (Core II Humanities)		3
Writing Intensive		3
Multicultural or International		3
FRN Capstone		0
College-Specific		
FRN 101	Elementary French I	3
FRN 102	Elementary French II	3
FRN 203	Intermediate French III	3
FRN 204	Intermediate French IV	3
300/400 COLA Literature		3
COLA Literature		3
COLA Humanities		3
300/400 COLA Social Science		3
300/400 COLA Social Science		3
COLA Social Science		3
COLA Natural/Physical Science		4
300/400 COLA International		3
300/400 COLA Multicultural		3
Major-Specific		
FRN 102	Elementary French II	3
FRN 203	Intermediate French III	3
FRN 204	Intermediate French IV	3
300/400 FRN Elective		3
300/400 FRN Elective		3
300/400 FRN Elective		3
400 FRN Elective		3
400 FRN Elective		3
400 FRN Elective		3
French Capstone		3
300/400 Free Elective		3
300/400 Free Elective		3
300/400 Free Elective		3
Free Elective		3

Free Elective	3
Free Elective	3

Major Information

- The total number of free electives will depend on the amount of double and triple counting of requirements.
- See course attributes each semester for courses that meet multiple requirements.
- Questions about requirements should be directed to the College of Liberal Arts (304-696-2350). Core II and COLA requirements may not be double counted.
- Forty-eight credit hours (sixteen 3-hour courses) must be at the 300/400 level.
- Students must earn a *C* or better in ENG 201 Advanced Composition and all foreign language courses.
- Minimum of 120 hours to graduate.
- A major in one of the modern foreign languages consists of ten courses, typically thirty semester hours, in the same language. Courses taken at Marshall are three credit hours each. Courses that transfer from study abroad may transfer as four credit hours, but each of these courses is to be considered equivalent to one three-hour Marshall course. Courses numbered 101 do not count toward the major.

- General Education Course

- Milestone course: a key success marker for your major. See your advisor to discuss the importance of this course in your plan of study.

Four Year Plan

The study of foreign languages emphasizes the development of critical thinking skills—increased powers of observation, analysis, logical reasoning, memory, and adaptability—that are immediately transferable to other areas of higher education and to a diversity of careers. In learning to understand, speak, read, and write a foreign language a student acquires direct access to another view of the world at a time when intercultural understanding, at both the national and international levels, has become an urgent priority.

Course	Title	Credit Hours
First Year		
First Semester		
FRN 101	Elementary French I	3
CMM 103	Fund Speech-Communication	3
ENG 101	Beginning Composition	3
FYS 100	First Yr Sem Critical Thinking	3
Core II Social Science		3
UNI 100	Freshman First Class	1
	Credit Hours	**16**
Second Semester		
FRN 102	Elementary French II	3
Core II Physical/Natural Science		4
MTH 121	Concepts and Applications (CT)	3
Core I Critical Thinking		3
Free Elective		3
	Credit Hours	**16**
Second Year		
First Semester		
FRN 203	Intermediate French III	3
ENG 201	Advanced Composition	3
Writing Intensive		3
Multicultural/International		3
300/400 COLA Social Science		3
	Credit Hours	**15**
Second Semester		
FRN 204	Intermediate French IV	3
Core II Fine Arts		3
Core II Humanities (WI)		3
COLA Physical/Natural Science		4
300/400 COLA Social Science		3
	Credit Hours	**16**
Third Year		
First Semester		
300/400 FRN Elective		3
300/400 FRN Elective		3
300/400 COLA International		3
300/400 COLA Multicultural		3
Free Elective		3
	Credit Hours	**15**
Second Semester		
300/400 FRN Elective		3
400 FRN Elective		3
300/400 Free Elective		3
COLA Social Science		3
COLA Humanities		3
	Credit Hours	**15**
Fourth Year		
First Semester		
400 FRN Elective		3
400 FRN Elective		3
300/400 Free Elective		3
Free Elective		3
300/400 COLA Literature		3
	Credit Hours	**15**
Second Semester		
French Capstone		3
400 FRN Elective		3
COLA Literature		3
300/400 Free Elective		3
	Credit Hours	**12**
	Total Credit Hours	**120**

French, Minor

Code	Title	Credit Hours
Required Courses		
FRN 102	Elementary French II	3

FRN 203	Intermediate French III	3
FRN 204	Intermediate French IV	3
Elective Courses		
Select two elective courses of the following:		6
One course must be taught in French		
One course may be a FRN course taught in English		
Total Credit Hours		**15**

German, Minor

Code	Title	Credit Hours
GER 102	Elementary German II	3
GER 203	Intermediate German I	3
GER 204	Intermediate German II	3
Select 6 hours above 204 of the following:		6
One course must be taught in German		
One of the courses may be a GER course taught in English		
Total Credit Hours		**15**

Japanese Studies, Minor

The minor in Japanese Studies consists primarily of courses taught in English and is therefore different from the minor in Japanese, which consists entirely of courses taught in Japanese. It gives a strong alternative to students who are interested in Japanese culture, but not necessarily in Japanese language. To earn the minor in Japanese Studies, students must complete fifteen hours from the following:

Code	Title	Credit Hours
Select 15 hours of the following, a minimum of six hours must be at the 300 or 400 level:		15
JPN 101	Elementary Japanese I	
JPN 102	Elementary Japanese II	
JPN 240	Japanese Culture (CT)	
JPN 245	Modern Japanese Lit (CT)	
JPN 250	Japanese Anime & Manga (CT)	
JPN 304	Premodern Japanese Literature	
JPN 403	Japanese Film in English	
JPN 408	Lit Asians in Americas	
HST 435	Modern Japan	
Total Credit Hours		**15**

Japanese, B.A.

- General Education Course

- Milestone course: a key success marker for your major. See your advisor to discuss the importance of this course in your plan of study.

Major

The Core Curriculum is designed to foster critical thinking skills and introduce students to basic domains of thinking that transcend disciplines. The Core applies to all majors. Information on specific classes in the Core can be found at https://www.marshall.edu/gened/.

Code	Title	Credit Hours
Core Curriculum		
Core 1: Critical Thinking		
FYS 100	First Yr Sem Critical Thinking	3
MTH 121	Concepts and Applications (CT)	3
Critical Thinking Course		3
Core 2		
ENG 101	Beginning Composition	3
ENG 201	Advanced Composition	3
CMM 103	Fund Speech-Communication	3
MTH 121	Concepts and Applications (CT)	3
Core II Natural/Physical Science		4
Core II Humanities (WI)		3
Core II Social Science		3
Core II Fine Arts		3
Additional University Requirements		
Writing Intensive (Core II Humanities)		3
Writing Intensive		3
Multicultural/International		3
JPN 490	Japanese Capstone	3
College-Specific		
JPN 101	Elementary Japanese I	3
JPN 102	Elementary Japanese II	3
JPN 203	Intermediate Japanese III	3
JPN 204	Intermediate Japanese IV	3
300/400 COLA Literature		3
COLA Literature		3
COLA Humanities		3
300/400 COLA Social Science		3
300/400 COLA Social Science		3
COLA Social Science		3
COLA Natural/Physical Science		4
300/400 COLA International		3
300/400 COLA Multicultural		3
Major-Specific		
JPN 102	Elementary Japanese II	3
JPN 203	Intermediate Japanese III	3
JPN 204	Intermediate Japanese IV	3
300/400 JPN Elective		3
300/400 JPN Elective		3
300/400 JPN Elective		3
400 JPN Elective		3
400 JPN Elective		3
400 JPN Elective		3
JPN 490	Japanese Capstone	3
300/400 Free Elective		3
300/400 Free Elective		3
300/400 Free Elective		3

300/400 Free Elective	3
Free Elective	3
Free Elective	3
Free Elective	3

Major Information

- The total number of free electives will depend on the amount of double and triple counting of requirements.
- See course attributes each semester for courses that meet multiple requirements.
- Questions about requirements should be directed to the College of Liberal Arts (304-696-2350). Core II and COLA requirements may not be double counted.
- Forty-eight credit hours (sixteen 3-hour courses) must be at the 300/400 level.
- Students must earn a *C* or better in ENG 201 Advanced Composition and all foreign language courses.
- Minimum of 120 hours to graduate.
- A major in one of the modern foreign languages consists of ten courses, typically thirty semester hours, in the same language. Courses taken at Marshall are three credit hours each. Courses that transfer from study abroad may transfer as four credit hours, but each of these courses is to be considered equivalent to one three-hour Marshall course. Courses numbered 101 do not count toward the major.

- General Education Course

- Milestone course: a key success marker for your major. See your advisor to discuss the importance of this course in your plan of study.

Four Year Plan

The study of foreign languages emphasizes the development of critical thinking skills—increased powers of observation, analysis, logical reasoning, memory, and adaptability—that are immediately transferable to other areas of higher education and to a diversity of careers. In learning to understand, speak, read, and write a foreign language a student acquires direct access to another view of the world at a time when intercultural understanding, at both the national and international levels, has become an urgent priority.

Course	Title	Credit Hours
First Year		
First Semester		
JPN 101	Elementary Japanese I	3
CMM 103	Fund Speech-Communication	3
ENG 101	Beginning Composition	3
FYS 100	First Yr Sem Critical Thinking	3
Core II Social Science		3
UNI 100	Freshman First Class	1
	Credit Hours	**16**
Second Semester		
JPN 102	Elementary Japanese II	3
Core II Physical/Natural Science		4
MTH 121	Concepts and Applications (CT)	3
Critical Thinking		3
COLA Social Science		3
	Credit Hours	**16**
Second Year		
First Semester		
JPN 203	Intermediate Japanese III	3
ENG 201	Advanced Composition	3
Writing Intensive		3
Multicultural/International		3
COLA Social Science		3
	Credit Hours	**15**
Second Semester		
JPN 204	Intermediate Japanese IV	3
Core II Fine Arts		3
Core II Humanities (WI)		3
COLA Physical/Natural Science		4
Free Elective		3
	Credit Hours	**16**
Third Year		
First Semester		
300/400 JPN Elective		3
300/400 JPN Elective		3
300/400 COLA International		3
300/400 COLA Multicultural		3
Free Elective		3
	Credit Hours	**15**
Second Semester		
300/400 JPN Elective		3
400 JPN Elective		3
300/400 COLA Social Science		3
300/400 Free Elective		3
300/400 Free Elective		3
	Credit Hours	**15**
Fourth Year		
First Semester		
300/400 Free Elective		3
300/400 Free Elective		3
400 JPN Elective		3
400 JPN Elective		3
300/400 COLA Literature		3
	Credit Hours	**15**
Second Semester		
JPN 490	Japanese Capstone	3
COLA Humanities		3
COLA Literature		3
Free Elective		3
	Credit Hours	**12**
	Total Credit Hours	**120**

Japanese, Minor

Code	Title	Credit Hours
JPN 102	Elementary Japanese II	3
JPN 203	Intermediate Japanese III	3
JPN 204	Intermediate Japanese IV	3
Select 6 hours above 204 of the following:		6
One of the courses must be taught in Japanese		
One of the courses may be a JPN course taught in English		
Total Credit Hours		**15**

Spanish Studies, Minor

The minor in Spanish Studies consists primarily of courses taught in English and is therefore different from the minor in Spanish, which consists entirely of courses taught in Spanish. It gives a strong alternative to students who are interested in Spanish culture, but not necessarily in Spanish language. To earn the minor in Spanish Studies, students must complete fifteen hours from the following:

Code	Title	Credit Hours
Select five of the following:		15
SPN 101	Introductory Spanish	
SPN 102	Introductory Spanish II	
SPN 240	Hispanic Culture (CT)	
SPN 245	Chicano/a Identities (CT)	
SPN 408	Latin American Women	
SPN 419	Against Oppression SPN LA Film	
SPN 420	Afro-Latin America	
Total Credit Hours		**15**

Spanish, B.A.

- General Education Course

- Milestone course: a key success marker for your major. See your advisor to discuss the importance of this course in your plan of study.

Major

The Core Curriculum is designed to foster critical thinking skills and introduce students to basic domains of thinking that transcend disciplines. The Core applies to all majors. Information on specific classes in the Core can be found at https://www.marshall.edu/gened/.

Code	Title	Credit Hours
Core Curriculum		
Core 1: Critical Thinking		
FYS 100	First Yr Sem Critical Thinking	3
MTH 121	Concepts and Applications (CT)	3
Critical Thinking Course		3
Core 2		
ENG 101	Beginning Composition	3
ENG 201	Advanced Composition	3
CMM 103	Fund Speech-Communication	3
MTH 121	Concepts and Applications (CT)	3
Core II Natural/Physical Science		4
Core II Humanities (WI)		3
Core II Social Science		3
Core II Fine Arts		3
Additional University Requirements		
Writing Intensive		3
Writing Intensive		3
Multicultural or International		3
SPN 490	Spanish Capstone Experience	3
College-Specific		
SPN 101	Introductory Spanish	3
SPN 102	Introductory Spanish II	3
SPN 203	Intermediate Spanish III	3
SPN 204	Intermediate Spanish IV	3
300/400 COLA Literature		3
COLA Literature		3
COLA Humanities		3
COLA Social Science		3
COLA Social Science		3
COLA Social Science		3
COLA Natural/Physical Science		4
COLA International Credit		3
COLA Multicultural Credit		3
Major-Specific		
SPN 102	Introductory Spanish II	3
SPN 203	Intermediate Spanish III	3
SPN 204	Intermediate Spanish IV	3
300/400 SPN Elective		3
300/400 SPN Elective		3
300/400 SPN Elective		3
400 SPN Elective		3
400 SPN Elective		3
400 SPN Elective		3
Spanish Capstone		3
300/400 Free Elective		3
300/400 Free Elective		3
300/400 Free Elective		3
300/400 Free Elective		3
Free Elective		3
Free Elective		3

Major Information

- The total number of free electives will depend on the amount of double and triple counting of requirements.
- See course attributes each semester for courses that meet multiple requirements.
- Questions about requirements should be directed to the College of Liberal Arts (304-696-2350). Core II and COLA requirements may not be double counted.
- Forty-eight credit hours (sixteen 3-hour courses) must be at the 300/400 level.

- Students must earn a *C* or better in ENG 201 Advanced Composition and all foreign language courses.
- Minimum of 120 hours to graduate.
- A major in one of the modern foreign languages consists of ten courses, typically thirty semester hours, in the same language. Courses taken at Marshall are three credit hours each. Courses that transfer from study abroad may transfer as four credit hours, but each of these courses is to be considered equivalent to one three-hour Marshall course. Courses numbered 101 do not count toward the major.

- General Education Course

- Milestone course: a key success marker for your major. See your advisor to discuss the importance of this course in your plan of study.

Four Year Plan

The study of foreign languages emphasizes the development of critical thinking skills—increased powers of observation, analysis, logical reasoning, memory, and adaptability—that are immediately transferable to other areas of higher education and to a diversity of careers. In learning to understand, speak, read, and write a foreign language a student acquires direct access to another view of the world at a time when intercultural understanding, at both the national and international levels, has become an urgent priority.

Course	Title	Credit Hours
First Year		
First Semester		
SPN 101	Introductory Spanish	3
CMM 103	Fund Speech-Communication	3
ENG 101	Beginning Composition	3
FYS 100	First Yr Sem Critical Thinking	3
Core II Social Science		3
UNI 100	Freshman First Class	1
	Credit Hours	**16**
Second Semester		
SPN 102	Introductory Spanish II	3
Core II Physical/Natural Science		4
MTH 121	Concepts and Applications (CT)	3
Critical Thinking		3
COLA Social Science		3
	Credit Hours	**16**
Second Year		
First Semester		
SPN 203	Intermediate Spanish III	3
ENG 201	Advanced Composition	3
Writing Intensive		3
Multicultural/International		3
COLA Social Science		3
	Credit Hours	**15**
Second Semester		
SPN 204	Intermediate Spanish IV	3
Core II Fine Arts		3
Core II Humanities		3
COLA Physical/Natural Science		4
Free Elective		3
	Credit Hours	**16**
Third Year		
First Semester		
300/400 SPN Elective		3
300/400 SPN Elective		3
COLA International		3
COLA Multicultural		3
Free Elective		3
	Credit Hours	**15**
Second Semester		
300/400 SPN Elective		3
400 SPN Elective		3
300/400 Free Elective		3
COLA Social Science		3
Writing Intensive		3
	Credit Hours	**15**
Fourth Year		
First Semester		
400 SPN Elective		3
400 SPN Elective		3
300/400 Free Elective		3
300/400 Free Elective		3
300/400 COLA Literature		3
	Credit Hours	**15**
Second Semester		
SPN 490	Spanish Capstone Experience	3
COLA Literature		3
COLA Humanities		3
300/400 Free Elective		3
	Credit Hours	**12**
	Total Credit Hours	**120**

Spanish, Minor

Code	Title	Credit Hours
SPN 102	Introductory Spanish II	3
SPN 203	Intermediate Spanish III	3
SPN 204	Intermediate Spanish IV	3
Select 6 hours above 204 of the following:		6
One of the courses must be taught in Spanish		
One of the courses may be a SPN course taught in English		
Total Credit Hours		**15**

Department of Political Science

Contacts: Dr. Shawn Schulenberg, Chair
Website: http://www.marshall.edu/polsci/

polsci@marshall.edu

The Political Science curriculum has two objectives: first, to provide a basic understanding of the functioning of government in preparation for democratic citizenship and second, to give a specialized foundation to those planning to enter law school, government service (foreign service, public administration), teaching, research, politics, or business.

Programs

- Political Science, B.A. (p. 316)
- Political Science, Minor (p. 318)
- Public Administration, Accelerated Master's Degree (p. 318)

Courses

- General Education Course

PSC 104 Am Natl Govt & Politics (CT) 3 Credit hours
This course will engage students in critical thinking as they explore the American federal government system, with emphasis on constiutionalism, governmental structure, and the political process.
Attributes: American Institutions, Critical Thinking, Core II Social Sciences
Grade Mode: Normal Grading Mode

PSC 105 Fundamentals of Politics (CT) 3 Credit hours
General survey introducing the study of politics, its major concepts, processes, institutions, and fields of concern, with attention to the place of political science in the larger context of social science inquiry. General survey introducing the study of politics, its major concepts, processes, institutions, and fields of concern, with attention to the place of political science in the larger context of social science inquiry.
Attributes: Critical Thinking, Core II Social Sciences
Grade Mode: Normal Grading Mode

PSC 202 State and Local Government 3 Credit hours
Study of the institutions, processes, and significance of this level of political life in America. Study of the institutions, processes, and significance of this level of political life in America.
Attributes: American Institutions, Core II Social Sciences
Grade Mode: Normal Grading Mode

PSC 207 Comparative Politics (CT) 3 Credit hours
Introduction to the field of comparative politics, stressing comparative concepts and approaches to the cross-national study of politics and government, with examination of political systems, ranging from democratic to non-democratic types. Introduction to the field of comparative politics, stressing comparative concepts and approaches to the cross-national study of politics and government, with examination of political systems, ranging from democratic to non-democratic types.
Attributes: Critical Thinking, International, Core II Social Sciences
Grade Mode: Normal Grading Mode

PSC 209 Fund Internatl Relations (CT) 3 Credit hours
Survey of major concepts and approaches in the study of international relations and analysis of processes, institutions, strategies, and trends in world politics.
Attributes: Critical Thinking, International, Core II Social Sciences
Grade Mode: Normal Grading Mode

PSC 211 Research in Political Science 3 Credit hours
Study of the development of political science as a distinct science and discipline, and of the fundamentals of research in political science, such as bibliographic techniques, uses of scientific method, textual and case-study approaches and data analysis. Study of the development of political science as a distinct science and discipline, and of the fundamentals of research in political science, such as bibliographic techniques, uses of scientific method, textual and case-study approaches and data analysis.
Pre-req: ENG 201 with a minimum grade of C or ENG 201H with a minimum grade of C or YGS 161 with a minimum grade of C or IST 201 with a minimum grade of D or ENG 202 with a minimum grade of D or ENG 102 with a minimum grade of C or ENG 200H with a minimum grade of C.
Attributes: Core II Social Sciences
Grade Mode: Normal Grading Mode

PSC 233 Intro to Public Policy 3 Credit hours
Basic concepts and skills in the analysis of public policy problems. Use of policy as an instrument for solving problems. Application to selected fields, for example, environmental policy and urban policy. Basic concepts and skills in the analysis of public policy problems. Use of policy as an instrument for solving problems. Application to selected fields, for example, environmental policy and urban policy.
Attributes: American Institutions, Core II Social Sciences
Grade Mode: Normal Grading Mode

PSC 280 Special Topics 1-4 Credit hours
To offer a course on some special topic not adequately treated in the regular course offerings. To offer a course on some special topic not adequately treated in the regular course offerings.
Grade Mode: Normal Grading Mode

PSC 281 Special Topics 1-4 Credit hours
To offer a course on some special topic not adequately treated in the regular course offerings. To offer a course on some special topic not adequately treated in the regular course offerings.
Grade Mode: Normal Grading Mode

PSC 282 Special Topics 1-4 Credit hours
To offer a course on some special topic not adequately treated in the regular course offerings. To offer a course on some special topic not adequately treated in the regular course offerings.
Grade Mode: Normal Grading Mode

PSC 283 Special Topics 1-4 Credit hours
To offer a course on some special topic not adequately treated in the regular course offerings. To offer a course on some special topic not adequately treated in the regular course offerings.
Grade Mode: Normal Grading Mode

PSC 303 Amer Political Parties 3 Credit hours
Examination of the American party system, its origins, development and characteristics. Emphasis also on party organization, political ambition and recruitment, party impact on public policy, campaigns, elections, and voting behavior. Examination of the American party system, its origins, development and characteristics. Emphasis also on party organization, political ambition and recruitment, party impact on public policy, campaigns, elections, and voting behavior.
Attributes: American Institutions
Grade Mode: Normal Grading Mode

PSC 307 Public Opinion and Propaganda **3 Credit hours**
Study of the processes by which individuals acquire politically relevant information, attitudes, values, and opinions; the consequences of these processes for political stability and conflict; and the linkage of mass opinions to elite behavior. (Same as Sociology 307) Study of the processes by which individuals acquire politi- cally relevant information, attitudes, values, and opinions; the consequences of these processes for political stability and conflict; and the linkage of mass opinions to elite be- havior. (Same as Sociology 307)
Attributes: American Institutions
Grade Mode: Normal Grading Mode

PSC 310 Campaigns and Elections **3 Credit hours**
Federal and state laws for campaigns and elections and the changing mechanisms for reaching voters are covered in this course.
Grade Mode: Normal Grading Mode

PSC 311 Issues in Public Policy **3 Credit hours**
A course devoted to a special topic of interest in the policy field, such as energy, health care, transportation, environmental concerns, etc. A course devoted to a special topic of interest in the policy field, such as energy, health care, transportation, environmental concerns, etc.
Grade Mode: Normal Grading Mode

PSC 312 Research in Political Science **3 Credit hours**
Study of the development of political science as a distinct science and discipline, and of the fundamentals of research in political science, such as bibliographic techniques, uses of scientific method, textual and case-study approaches and data analysis.
Grade Mode: Normal Grading Mode

PSC 333 Intro to Public Administration **3 Credit hours**
Introduction to modern theories of administration; the relation of administration to the political system and process; and analysis of administrative organizations and functions, including planning, personnel, and finance. Introduction to modern theories of administration; the re- lation of administration to the political system and pro- cess; and analysis of administrative organizations and functions, including planning, personnel, and finance.
Grade Mode: Normal Grading Mode

PSC 376 Black Politics **3 Credit hours**
Study emphasizing power structures in black communities, dissent and protest, problems and trends, and the uniqueness of black politics as compared with the politics of other ethnic groups. Study emphasizing power structures in black communities, dissent and protest, problems and trends, and the uni- queness of black politics as compared with the politics of other ethnic groups.
Attributes: American Institutions, Multicultural
Grade Mode: Normal Grading Mode

PSC 381 Am Legislative Process **3 Credit hours**
Structure and behavior of American national and state legislative systems; the impact of constituencies, parties, interest groups, interpersonal relations, and other factors on the legislative policymaking process; the role of the legislature as a subsystem in the larger political system; and problems and trends. Structure and behavior of American national and state legislative systems; the impact of constituencies, parties, interest groups, interpersonal relations, and other factors on the legislative policymaking process; the role of the legislature as a subsystem in the larger political system; and problems and trends.
Attributes: American Institutions
Grade Mode: Normal Grading Mode

PSC 382 Student Legislative Prog **1 Credit hour**
One week of intensive legislative observation designed to provide selected students an understanding of the organization and processes of the West Virginia legislature and its role in the making of public policy. One week of intensive legislative observation designed to provide selected students an understanding of the organiza- tion and processes of the West Virginia legislature and its role in the making of public policy.
Grade Mode: Normal Grading Mode

PSC 383 The American Presidency **3 Credit hours**
Study of governmental executives in the American political system, with emphasis on the president, including analysis of constitutional status and powers, recruitment, administrative responsibilities, political and legislative leadership, accountability, and problems and trends. Study of governmental executives in the American political system, with emphasis on the president, including analysis of constitutional status and powers, recruitment, admini- strative responsibilities, political and legislative leader- ship, accountability, and problems and trends.
Attributes: American Institutions
Grade Mode: Normal Grading Mode

PSC 402 Politics of the Undead **3 Credit hours**
An exploration of political thought, international relations theory, and political economy through the pop cultural lens of vampires, zombies, and other undead creatures.
Grade Mode: Normal Grading Mode

PSC 403 War and Pop Culture **3 Credit hours**
An exploration of evolving depictions of political violence in film, television, graphic novels, video games, and popular music.
Attributes: International
Grade Mode: Normal Grading Mode

PSC 405 UN & Global Organizations **3 Credit hours**
Study of world and regional organizations as reflections of world politics, as instruments of foreign policies, and as forces for change and order, with emphasis on their role as channels for management of cooperation and conflict. Study of world and regional organizations as reflections of world politics, as instruments of foreign policies, and as forces for change and order, with emphasis on their role as channels for management of cooperation and conflict.
Attributes: International
Grade Mode: Normal Grading Mode

PSC 406 International Relations **3 Credit hours**
Study of major issues in world politics, with emphasis on theoretical approaches, problems of war and peace, and contemporary trends. Study of major issues in world politics, with emphasis on theoretical approaches, problems of war and peace, and contemporary trends.
Attributes: International
Grade Mode: Normal Grading Mode

PSC 407 Asian Politics **3 Credit hours**
Study of such nations as India, China, Japan, and Korea in the contemporary setting. Study of such nations as India, China, Japan, and Korea in the contemporary setting.
Attributes: International
Grade Mode: Normal Grading Mode

PSC 408 Middle Eastern Politics **3 Credit hours**
Study of the Arab States and such nations as Israel, Iran, and Turkey in the contemporary setting. Study of the Arab States and such nations as Israel, Iran, and Turkey in the contemporary setting.
Attributes: International
Grade Mode: Normal Grading Mode

PSC 409 Western Democratic Politics **3 Credit hours**
Study of such nations as Canada and those of Western Europe, particularly Great Britian and France. Study of such nations as Canada and those of Western Europe, particularly Great Britian and France.
Attributes: International
Grade Mode: Normal Grading Mode

PSC 410 Post Soviet Politics **3 Credit hours**
Study of the politics of Russia and the former Soviet Union. Study of the Soviet Union and Eastern Europe.
Attributes: International
Grade Mode: Normal Grading Mode

PSC 411 Latin American Politics **3 Credit hours**
Study of Latin American politics by sectors, such as landed elites, the military, the church, etc. Various styles of governance are considered. Case examples illustrate concepts discussed. Study of Latin American politics by sectors, such as landed elites, the military, the church, etc. Various styles of governance are considered. Case examples illustrate con- cepts discussed.
Attributes: International
Grade Mode: Normal Grading Mode

PSC 412 International Political Econ **3 Credit hours**
This course will examine the evolution and structure of the global economic system with emphasis on the development of the Liberal International Economic Order.
Grade Mode: Normal Grading Mode

PSC 415 International Law **3 Credit hours**
Study of theories, origins, sources, development, present state, and trends of international law as a factor in various aspects of international politics. Study of theories, origins, sources, development, present state, and trends of international law as a factor in various aspects of international politics.
Attributes: International
Grade Mode: Normal Grading Mode

PSC 416 Politics of Development **3 Credit hours**
A survey of major theories of development and modernization and issues confronting developing nations around the world.
Attributes: International
Grade Mode: Normal Grading Mode

PSC 417 Homeland Sec and Civ Lib **3 Credit hours**
An examination of the policy issues involved in protecting the U.S. homeland from terrorist and other threats, with special attention to the impact such policies have on individual liberties.
Grade Mode: Normal Grading Mode

PSC 418 American Political Thought II **3 Credit hours**
This course is a detailed examination of the philosophical and historical roots of American politics from Reconstruction through the present with emphasis on original texts.
Grade Mode: Normal Grading Mode

PSC 419 Women and Political Thought **3 Credit hours**
This course examines how women were conceptualized in the history of political philosophy and how women then began conceptualizing themselves and their relation to politics.
Grade Mode: Normal Grading Mode

PSC 420 Cur World/Regional Issues **3 Credit hours**
An intensive study of specific world or regional problems, such as the politics of world hunger, the role of multinational corporations, imperialism, Third World Communist movements, etc. An intensive study of specific world or regional problems, such as the politics of world hunger, the role of multi- national corporations, imperialism, Third World Communist movements, etc.
Attributes: International
Grade Mode: Normal Grading Mode

PSC 421 American Political Thought I **3 Credit hours**
This course is a detailed examination of the philosophical and historical roots of American politics from the Colonial era through the Civil War with emphasis on original texts. Study of the development and influence of American Political Thought with an emphasis on the linkage of ideas to political and ecomomic forces.
Grade Mode: Normal Grading Mode

PSC 422 African Political Systems **3 Credit hours**
The study of political systems of selected countries, blocs, or regions. The study of political systems of selected countries, blocs, or regions.
Attributes: International
Grade Mode: Normal Grading Mode

PSC 423 American Foreign Policy **3 Credit hours**
The study of descriptive, analytical, and normative aspects of United States foreign policy with emphasis on contemporary problems and issues. The study of descriptive, analytical, and normative aspects of United States foreign policy with emphasis on contempor- ary problems and issues.
Attributes: American Institutions, International
Grade Mode: Normal Grading Mode

PSC 424 Diplomacy **3 Credit hours**
Application of the comparative method to foreign policy decision-making and outputs. Comparisons within or between geographic regions. Application of the comparative method to foreign policy decision-making and outputs. Comparisons within or between geographic regions.
Attributes: International
Grade Mode: Normal Grading Mode

PSC 425 Classical Political Thought **3 Credit hours**
Selective study of classics of Western political theory from earliest times through the 15th century, such as that of Plato, Aristotle, the Romans, Augustine, and Aquinas.
Grade Mode: Normal Grading Mode

PSC 426 Modern Political Thought **3 Credit hours**
Selective study of classics of Western political theory from the 16th century through the 19th century, such as that of Machiavelli, Bodin, Hobbes, Locke, Rousseau, Hume, Burke, Mill, and Marx.
Grade Mode: Normal Grading Mode

PSC 427 Shapers and Definers **3 Credit hours**
A study of political leaders who have shaped and defined the American constitutional tradition.
Grade Mode: Normal Grading Mode

PSC 428 Islam and Politics **3 Credit hours**
Study of Islamic political ideas, practices, and institutions and their impact on the rise and development of contemporary Islamic movements, organizations, and states. Study of Islamic political ideas, practices, and institut- ions and their impact on the rise and development of con- temporary Islamic movements, organizations, and states.
Attributes: International
Grade Mode: Normal Grading Mode

PSC 429 Politics of Confl & Rev **3 Credit hours**
Study of major theories of conflict and revolution with emphasis on cross-national explanations and outcomes. Study of major theories of conflict and revolution with em- phasis on cross-national explanations and outcomes.
Attributes: International
Grade Mode: Normal Grading Mode

PSC 430 Political Ideologies **3 Credit hours**
This course examines modern political ideologies including Liberalism, Conservatism, Anarchism, Socialism, Facism, Feminism, and Environmentalism with emphasis on the original texts.
Grade Mode: Normal Grading Mode

PSC 431 Pol of Global Terrorism **3 Credit hours**
An examination of terrorism globally, both in its development and its current manifestations, with attention to its attractions, the difficulties of confronting it, and its implications for democratic society. Draws upon both classic and contemporary sources of politi- cal theory to address basic political issues inherent in public problems.
Grade Mode: Normal Grading Mode

PSC 432 Nonprofit Management **3 Credit hours**
This course examines the principles and applied practices of nonprofit administration including theories of nonprofit formation, fundraising appeals, executive leadership, marketing, budgeting, and strategic management.
Grade Mode: Normal Grading Mode

PSC 433 Public Adm & Policy Dev **3 Credit hours**
Examination of alternative theoretical approaches to the study of policy and administration and their implications for the use of policy to shape administrative practice. Examination of alternative theoretical approaches to the study of policy and administration and their implications for the use of policy to shape administrative practice.
Attributes: American Institutions
Grade Mode: Normal Grading Mode

PSC 434 Intel and Covert Ops **3 Credit hours**
An introduction to the institutions and processes of the U.S. Intelligence Community, with an emphasis on the vital role of intelligence in national security.
Grade Mode: Normal Grading Mode

PSC 435 Harry Potter and Pol. Theory **3 Credit hours**
Detailed examination of the Harry Potter book series through the lens of various theories and theorists of power, with emphasis on scholarly argumentation and writing.
Grade Mode: Normal Grading Mode

PSC 436 The American Judiciary **3 Credit hours**
Structure and behavior in American national and state judicial systems, including analysis of their decision making and policy making functions, their procedures and administration, and problems and trends. Structure and behavior in American national and state judi- cial systems, including analysis of their decision making and policy making functions, their procedures and administ- ration, and problems and trends.
Attributes: American Institutions
Grade Mode: Normal Grading Mode

PSC 440 Power in American Society **3 Credit hours**
Examination of some of the major theoretical approaches pluralistic, elitist, etc. to the study of power. A major concern is the relationship between the distribution of political resources and the performance of political systems. Efforts to transform political systems are examined on the basis of cross-national research. Examination of some of the major theoretical approaches - pluralistic, elitist, etc. - to the study of power. A major concern is the relationship between the distribution of political resources and the performance of political systems. Efforts to transform political systems are exam- ined on the basis of cross-national research.
Attributes: American Institutions
Grade Mode: Normal Grading Mode

PSC 442 Politics of Poverty **3 Credit hours**
A comparative course examining the political institutional methods states use to assist citizens who are poor, primarily women and children. It also addresses behavioral concerns that shape welfare policy.
Grade Mode: Normal Grading Mode

PSC 444 Dictatorship & Democracy **3 Credit hours**
An investigation of the strengths of democracies relative to dictatorships with regard to such dimensions as economic growth, income equality, health and welfare of citizens and war reductions.
Grade Mode: Normal Grading Mode

PSC 445 Environmental Politics **3 Credit hours**
This course examines multiple prespectives on the relationship between humans and nature, focusing on how particular interpretations of this relationship determine how we translate environmental concerns into political problems.
Grade Mode: Normal Grading Mode

PSC 446 Politics in History **3 Credit hours**
A study of politics as an order shattering, order restructuring force during some of America's most transformative moments.
Grade Mode: Normal Grading Mode

PSC 450 Administrative Law **3 Credit hours**
A study of the basic legal framework of administrative organization, including the problems of administrative discretion, rule-making and adjudication, regulatory agencies, and administrative responsibility in the democratic state. A study of the basic legal framework of administrative or- ganization, including the problems of administrative dis- cretion, rule-making and adjudication, regulatory agencies, and administrative responsibility in the democratic state.
Grade Mode: Normal Grading Mode

PSC 452 Public Personnel Admin **3 Credit hours**
Survey of Public Personnel Administration with particular attention to various facets of the merit system concept. Psychological and human relations aspects of the work situation and supervisor-subordinate interaction emphasized. Survey of Public Personnel Administration with particular attention to various facets of the merit system concept. Psychological and human relations aspects of the work situation and supervisor-subordinate interaction emphasized.
Grade Mode: Normal Grading Mode

PSC 453 Government Budgetary Admin **3 Credit hours**
Study of organization, administration, and accountability in the management of public funds, with emphasis on the political decision-making processes of budget formulation, presentation and execution. Study of organization, administration, and accountability in the management of public funds, with emphasis on the political decision-making processes of budget formulation, presentation and execution.
Grade Mode: Normal Grading Mode

PSC 454 Politics of the Workplace **3 Credit hours**
A study of the contributions of the behavioral sciences to the study of organizations with stress on such concepts as leadership, motivation, power conflict, organizational design and decision making. A study of the contributions of the behavioral sciences to the study of organizations with stress on such concepts as leadership, motivation, power conflict, organizational design and decision making.
Grade Mode: Normal Grading Mode

PSC 460 Civil Rights & Liberties **3 Credit hours**
Pre-req: PSC 104 or PSC 104E.
Grade Mode: Normal Grading Mode

PSC 461 Urban Prob & Pub Policy **3 Credit hours**
Study of policy problems of metropolitan areas in terms of structures, alternatives, and outcomes. Study of policy problems of metropolitan areas in terms of structures, alternatives, and outcomes.
Attributes: American Institutions
Grade Mode: Normal Grading Mode

PSC 466 Appalachian Politics **3 Credit hours**
Explores Appalachia as both a geographical region and a political construct, focusing on how politics shapes regional identity and the region's relationship to the United States.
Grade Mode: Normal Grading Mode

PSC 478 Politics and Video Games **3 Credit hours**
An exploration of the power dynamics and politics at play in video games, the video game industry, and gaming culture.
Attributes: Digital Humanities
Grade Mode: Normal Grading Mode

PSC 480 Special Topics **1-4 Credit hours**
To offer a course on some special topic which is not adequately treated in the regular course offerings. To offer a course on some special topic which is not ad- equately treated in the regular course offerings.
Grade Mode: Normal Grading Mode

PSC 481 Special Topics **1-4 Credit hours**
To offer a course on some special topic which is not adequately treated in the regular course offerings. To offer a course on some special topic which is not ad- equately treated in the regular course offerings.
Grade Mode: Normal Grading Mode

PSC 482 Special Topics **1-4 Credit hours**
To offer a course on some special topic which is not adequately treated in the regular course offerings. To offer a course on some special topic which is not ad- equately treated in the regular course offerings.
Grade Mode: Normal Grading Mode

PSC 483 Special Topics **1-4 Credit hours**
To offer a course on some special topic which is not adequately treated in the regular course offerings. To offer a course on some special topic which is not ad- equately treated in the regular course offerings.
Grade Mode: Normal Grading Mode

PSC 484 Constitutional Law **3 Credit hours**
Introduction to the principles of American constitutional law and analysis of constitutional issues, emphasizing leading Supreme Court cases. Introduction to the principles of American constitutional law and analysis of constitutional issues, emphasizing leading Supreme Court cases.
Pre-req: PSC 104E or PSC 104.
Attributes: American Institutions
Grade Mode: Normal Grading Mode

PSC 485 Independent Study **1-4 Credit hours**
These numbers are reserved for tutorials, directed and independent readings, directed and independent research, problem reports, etc. These numbers are reserved for tutorials, directed and in- dependent readings, directed and independent research, problem reports, etc.
Attributes: No Textbook Required
Grade Mode: Normal Grading Mode

PSC 486 Independent Study **1-4 Credit hours**
These numbers are reserved for tutorials, directed and independent readings, directed and independent research, problem reports, etc. These numbers are reserved for tutorials, directed and in- dependent readings, directed and independent research, problem reports, etc.
Grade Mode: Normal Grading Mode

PSC 487 Independent Study **1-4 Credit hours**
These numbers are reserved for tutorials, directed and independent readings, directed and independent research, problem reports, etc. These numbers are reserved for tutorials, directed and in- dependent readings, directed and independent research, problem reports, etc.
Grade Mode: Normal Grading Mode

PSC 488 Independent Study **1-4 Credit hours**
These numbers are reserved for tutorials, directed and independent readings, directed and independent research, problem reports, etc. These numbers are reserved for tutorials, directed and in- dependent readings, directed and independent research, problem reports, etc.
Grade Mode: Normal Grading Mode

PSC 489 Seminar in Public Service **3 Credit hours**
Grade Mode: Normal Grading Mode

PSC 490 Public Service Internship **6 Credit hours**
Grade Mode: Normal Grading Mode

PSC 499 Capstone Experience **3 Credit hours**
This course is designed as a culminating experience for seniors. Students will engage in a service learning project that combines scholarly interests with real life skills. Course offered only in Fall Semester. This course is designed to integrate political theory with politics by considering the relevance of political phil- osophy to contemporary political questions. Capstone ex- perience must be completed in the senior year.
Pre-req: PSC 211 with a minimum grade of D.
Attributes: Capstone Course
Grade Mode: Normal Grading Mode

Faculty

Professors
Morrissette, Warner, Schulenberg

Associate Professors
Arthur, Beller, Davis

Assistant Professor
Morelock

Instructor
Proctor

Political Science, B.A.

- General Education Course

- Milestone course: a key success marker for your major. See your advisor to discuss the importance of this course in your plan of study.

Major

The Core Curriculum is designed to foster critical thinking skills and introduce students to basic domains of thinking that transcend disciplines. The Core applies to all majors. Information on specific classes in the Core can be found at https://www.marshall.edu/gened/.

Code	Title	Credit Hours
Core Curriculum		
Core 1: Critical Thinking		
FYS 100	First Yr Sem Critical Thinking	3
PSC 105	Fundamentals of Politics (CT)	3
PSC 104	Am Natl Govt & Politics (CT)	3
Core 2		
ENG 101	Beginning Composition	3
ENG 201	Advanced Composition	3
CMM 103	Fund Speech-Communication	3
STA 150	Foundations of Statistics	3
STA 150L	Foundations of Statistics Lab	1
Core II Physical and Natural Science		4
Core II Humanities		3
PSC 104	Am Natl Govt & Politics (CT)	3
Core II Fine Arts		3
Additional University Requirements		
Writing Intensive		3
Writing Intensive		3
Multicultural or International		3
PSC 499	Capstone Experience	3
College-Specific		
Foreign Language 101		3
Foreign Language 102		3
Foreign Language 203		
Foreign Language 204		3
COLA Literature		3
COLA Literature		3
COLA Humanities		3
PSC 105	Fundamentals of Politics (CT) (COLA Social Science)	3
COLA Social Science (Not PSC)		3
COLA Social Science (Not PSC)		3
COLA Physical and Natural Science		4
PSC COLA International		3
COLA Multicultural		
Major-Specific		
PSC 105	Fundamentals of Politics (CT)	3
PSC 104	Am Natl Govt & Politics (CT)	3
PSC 105	Fundamentals of Politics (CT)	3
PSC 312	Research in Political Science	3
PSC 499	Capstone Experience	3
Select at least three courses in any one of the five Political Science subfields and at least one course in at least three of the remaining four fields:		18
Courses that appear in more than one field may not be counted twice.		
American National, State, and Local Politics		
PSC 202	State and Local Government	
PSC 307	Public Opinion and Propaganda	
PSC 376	Black Politics	
PSC 381	Am Legislative Process	
PSC 383	The American Presidency	
PSC 423	American Foreign Policy	
PSC 427	Shapers and Definers	
PSC 436	The American Judiciary	
PSC 440	Power in American Society	
PSC 442	Politics of Poverty	
PSC 446	Politics in History	
PSC 460	Civil Rights & Liberties	
PSC 484	Constitutional Law	
International and Comparative Politics		
PSC 207	Comparative Politics (CT)	
PSC 209	Fund Internatl Relations (CT)	
PSC 405	UN & Global Organizations	
PSC 406	International Relations	
PSC 407	Asian Politics	
PSC 408	Middle Eastern Politics	
PSC 409	Western Democratic Politics	
PSC 410	Post Soviet Politics	
PSC 411	Latin American Politics	

PSC 412	International Political Econ	
PSC 415	International Law	
PSC 416	Politics of Development	
PSC 420	Cur World/Regional Issues	
PSC 422	African Political Systems	
PSC 423	American Foreign Policy	
PSC 424	Diplomacy	
PSC 428	Islam and Politics	
PSC 429	Politics of Confl & Rev	
PSC 431	Pol of Global Terrorism	
PSC 442	Politics of Poverty	
PSC 444	Dictatorship & Democracy	
Constitutional Democracy		
PSC 417	Homeland Sec and Civ Lib	
PSC 418	American Political Thought II	
PSC 421	American Political Thought I	
PSC 427	Shapers and Definers	
PSC 429	Politics of Confl & Rev	
PSC 436	The American Judiciary	
PSC 444	Dictatorship & Democracy	
PSC 446	Politics in History	
PSC 460	Civil Rights & Liberties	
PSC 484	Constitutional Law	
Political Theory		
PSC 418	American Political Thought II	
PSC 419	Women and Political Thought	
PSC 421	American Political Thought I	
PSC 425	Classical Political Thought	
PSC 426	Modern Political Thought	
PSC 428	Islam and Politics	
PSC 429	Politics of Confl & Rev	
PSC 430	Political Ideologies	
PSC 446	Politics in History	
Public Administration, Public Policy and Urban Politics		
PSC 233	Intro to Public Policy	
PSC 311	Issues in Public Policy	
PSC 333	Intro to Public Administration	
PSC 433	Public Adm & Policy Dev	
PSC 450	Administrative Law	
PSC 452	Public Personnel Admin	
PSC 453	Government Budgetary Admin	
PSC 454	Politics of the Workplace	
PSC 461	Urban Prob & Pub Policy	
Political Science electives		6
Free Elective		3
Free Elective		3
Free Elective		3
Free Elective		3
Free Elective		3
Free Elective		3

- General Education Course

- Milestone course: a key success marker for your major. See your advisor to discuss the importance of this course in your plan of study.

The Political Science curriculum has two objectives: first, to provide a basic understanding of the functioning of government in preparation for democratic citizenship and second, to give a specialized foundation to those planning to enter law school, government service (foreign service, public administration), teaching, research, politics, or business.

Course	Title	Credit Hours
First Year		
First Semester		
CMM 103	Fund Speech-Communication	3
ENG 101	Beginning Composition	3
FYS 100	First Yr Sem Critical Thinking	3
PSC 104	Am Natl Govt & Politics (CT)	3
Core II Fine Arts		3
UNI 100	Freshman First Class	1
	Credit Hours	**16**
Second Semester		
ENG 201	Advanced Composition	3
Core II Physical and Natural Science		4
STA 150	Foundations of Statistics	3
STA 150L	Foundations of Statistics Lab	1
PSC 105	Fundamentals of Politics (CT)	3
	Credit Hours	**14**
Second Year		
First Semester		
Foreign Language 101		3
PSC 312	Research in Political Science	3
COLA Social Science (Not PSC)		3
Core II Humanities (WI)		3
COLA Physical and Natural Science		4
	Credit Hours	**16**
Second Semester		
Multicultural or International		3
Foreign Language 102		3
PSC Elective (3 in 1/1 in 3)		3
Free Elective		3
Free Elective		3
	Credit Hours	**15**
Third Year		
First Semester		
PSC Elective (3 in 1/1 in 3)		3
COLA Multicultural		3
COLA International		3
Foreign Language 203		3
Free Elective		3
	Credit Hours	**15**
Second Semester		
Foreign Language 204		3

PSC Elective (3 in 1/1 in 3)		3
PSC Elective (3 in 1/1 in 3)		3
COLA Social Science (not PSC)		3
Free Elective		3
	Credit Hours	**15**
Fourth Year		
First Semester		
PSC Elective (3 in 1/1 in 3)		3
PSC Elective		3
PSC 499	Capstone Experience (WI)	3
COLA Literature		3
Free Elective		3
	Credit Hours	**15**
Second Semester		
PSC Elective (3 in 1/1 in 3)		3
PSC Elective		3
COLA Literature		3
COLA Humanities		3
Free Elective		2
	Credit Hours	**14**
	Total Credit Hours	**120**

Political Science, Minor

A **minor in Political Science** consists of completing 15 credit hours, in any combination, from the following:

Code	Title	Credit Hours
PSC 202	State and Local Government	
PSC 307	Public Opinion and Propaganda	
PSC 376	Black Politics	
PSC 381	Am Legislative Process	
PSC 383	The American Presidency	
PSC 423	American Foreign Policy	
PSC 427	Shapers and Definers	
PSC 436	The American Judiciary	
PSC 440	Power in American Society	
PSC 442	Politics of Poverty	
PSC 446	Politics in History	
PSC 460	Civil Rights & Liberties	
PSC 484	Constitutional Law	
PSC 207	Comparative Politics (CT)	
PSC 209	Fund Internatl Relations (CT)	
PSC 405	UN & Global Organizations	
PSC 406	International Relations	
PSC 407	Asian Politics	
PSC 408	Middle Eastern Politics	
PSC 409	Western Democratic Politics	
PSC 410	Post Soviet Politics	
PSC 411	Latin American Politics	
PSC 412	International Political Econ	
PSC 415	International Law	
PSC 416	Politics of Development	
PSC 420	Cur World/Regional Issues	
PSC 422	African Political Systems	
PSC 423	American Foreign Policy	
PSC 424	Diplomacy	
PSC 428	Islam and Politics	
PSC 429	Politics of Confl & Rev	
PSC 431	Pol of Global Terrorism	
PSC 442	Politics of Poverty	
PSC 444	Dictatorship & Democracy	
PSC 417	Homeland Sec and Civ Lib	
PSC 418	American Political Thought II	
PSC 421	American Political Thought I	
PSC 427	Shapers and Definers	
PSC 429	Politics of Confl & Rev	
PSC 436	The American Judiciary	
PSC 444	Dictatorship & Democracy	
PSC 446	Politics in History	
PSC 460	Civil Rights & Liberties	
PSC 484	Constitutional Law	
PSC 418	American Political Thought II	
PSC 419	Women and Political Thought	
PSC 421	American Political Thought I	
PSC 425	Classical Political Thought	
PSC 426	Modern Political Thought	
PSC 428	Islam and Politics	
PSC 233	Intro to Public Policy	
PSC 429	Politics of Confl & Rev	
PSC 430	Political Ideologies	
PSC 446	Politics in History	
PSC 311	Issues in Public Policy	
PSC 333	Intro to Public Administration	
PSC 433	Public Adm & Policy Dev	
PSC 450	Administrative Law	
PSC 452	Public Personnel Admin	
PSC 453	Government Budgetary Admin	
PSC 454	Politics of the Workplace	
PSC 461	Urban Prob & Pub Policy	

Public Administration, Accelerated Master's Degree

Students who have completed at least 90 hours towards their bachelor's degrees, have at least a 3.3 overall undergraduate GPA, and a 3.3 GPA in Political Science are eligible to apply for our Master of Public Administration (M.P.A.) Accelerated Master's Degree program. A GRE score is not required. Students accepted into the program can begin taking graduate coursework up to a maximum of 12 hours in place of elective undergraduate courses. Students reduce the number of hours required to complete the bachelor's degree by the number

of graduate hours they complete (up to a maximum of 12). They must meet all the other degree requirements for their bachelor's degrees while they work on their master's degrees. Interested students are encouraged to discuss this option with their advisors to obtain further details and information on the application process.

Department of Psychology

Contacts: Dr. Marianna Linz, Chair
Website: http://www.marshall.edu/psych/

linz@marshall.edu

Psychology is the scientific study of human cognition, affect, behavior, and relationships. Psychologists seek to understand, predict and influence behavior through research into a wide range of issues which affect human functioning, including social, physiological, developmental, cognitive and emotional factors. Research methodology is central to the discipline, and all Psychology majors learn about research strategies and methods of data analysis.

Programs

- Psychology, Accelerated Master's Degree Program (p. 322)
- Psychology, B.A. (p. 322)
- Psychology, B.S. (http://catalog.marshall.edu/undergraduate/programs-az/liberal-arts/psychology/psychology-bs/)
- Psychology, Minor (p. 324)

Courses

- General Education Course

PSY 100 Psychology as a Major **1 Credit hour**
Prepares students to be successful undergraduate Psychology majors and introduces possible careers and educational requirements. Prepares students to be successful undergraduate Psychology majors and introduces possible careers and educational requirements.
Grade Mode: Normal Grading Mode

PSY 201 Introductory Psychology (CT) **3 Credit hours**
Principles and methods in the scientific study of behavior. Principles and methods in the scientific study of behavior.
Attributes: Critical Thinking, Core II Social Sciences
Grade Mode: Normal Grading Mode

PSY 201H General Psychology-Honors (CT) **3 Credit hours**
For the superior student. For the superior student.
Pre-req: Admitted Honors College with a score of 1.
Attributes: Critical Thinking, Core II Social Sciences
Grade Mode: Normal Grading Mode

PSY 204 Psychology of Adjustment **3 Credit hours**
Modes of personal and social adjustment; assessment and treatment techniques. Modes of personal and social adjustment; assessment and treatment techniques.
Grade Mode: Normal Grading Mode

PSY 205 Intro Paraprof Mental Health **3 Credit hours**
Course covers paraprofessional mental health career options; community resource utilization, deinstitutionalization, crisis/interpersonal intervention and special populations. On-site observation experience required.
Pre-req: PSY 201.
Grade Mode: Normal Grading Mode

PSY 223 Elem Behavioral Stat **3 Credit hours**
Orientation to the philosophy of science; survey of methods in behavior study; elementary statistics. Orientation to the philosophy of science; survey of methods in behavior study; elementary statistics.
Pre-req: (PSY 201 with a minimum grade of D or PSY 201H with a minimum grade of D) and (MTH 121 with a minimum grade of D or MTH 121B with a minimum grade of D or MTH 122 with a minimum grade of D or MTH 125 with a minimum grade of D or MTH 127 with a minimum grade of D or MTH 130 with a minimum grade of D or MTH 132 with a minimum grade of D or MTH 140 with a minimum grade of D or MTH 140H with a minimum grade of D or MTH 160 with a minimum grade of D or MTH 220 with a minimum grade of D or (STA 150 with a minimum grade of D and STA 150L with a minimum grade of D) or (STA 150B with a minimum grade of D and STA 150L with a minimum grade of D) or MTH 229 with a minimum grade of D or MTH 229H with a minimum grade of D).
Attributes: Core II Social Sciences, Statistics
Grade Mode: Normal Grading Mode

PSY 223L Elem Behavioral Stats Lab **1 Credit hour**
A laboratory course accompanying PSY 223, emphasizing experiential excercises related to methodology and research in psychology.
Pre-req: MTH 121.
Co-req: PSY 223
Grade Mode: Normal Grading Mode

PSY 250 Psychology of Pop Culture **3 Credit hours**
This course surveys how psychology and psychological issues are presented, researched, and applied in multiple modalities of popular culture.
Pre-req: PSY 201.
Grade Mode: Normal Grading Mode

PSY 280 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

PSY 281 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

PSY 282 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

PSY 283 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

PSY 300 Paranormal Phenomena **3 Credit hours**
Investigation of such putative paranormal events as ESP, clairvoyance, UFO's, ghosts, astral projecttion, astrology, and related topics. Emphasis on evaluation of evidence using the scientific method and scientific criteria. Investigation of such putative paranormal events as ESP, clairvoyance, UFO's, ghosts, astral projecttion, astrology, and related topics. Emphasis on evaluation of evidence using the scientific method and scientific criteria.
Pre-req: PSY 201 with a minimum grade of D or PSY 201H with a minimum grade of D.
Grade Mode: Normal Grading Mode

PSY 302 Social Psychology **3 Credit hours**
Social determinants of individual behavior. Social determinants of individual behavior.
Pre-req: PSY 201 with a minimum grade of D or PSY 201H with a minimum grade of D.
Grade Mode: Normal Grading Mode

PSY 310 Beh Int Paraprof Mental Health **3 Credit hours**
Course covers behavioral theory, antecedent motivators, functional analysis, reinforcement regimes; preparing and following treatment plans, defining measurable goals/objectives, monitoring progress.
Pre-req: PSY 205.
Grade Mode: Normal Grading Mode

PSY 311 Child Development **3 Credit hours**
Psychological characteristics and personal and social problems of developmental periods. Psychological characteristics and personal and social problems of developmental periods.
Pre-req: PSY 201 with a minimum grade of D or PSY 201H with a minimum grade of D.
Grade Mode: Normal Grading Mode

PSY 312 Adult Development **3 Credit hours**
Study of the physiological, psychological, and social processes that occur throughout adult development. Study of the physiological, psychological, and social processes that occur throughout adult development.
Pre-req: PSY 201 with a minimum grade of D or PSY 201H with a minimum grade of D.
Grade Mode: Normal Grading Mode

PSY 323 Experimental Psychology **3 Credit hours**
Methodology and research in psychology. 2 lec-2 lab. Methodology and research in psychology. 2 lec-2 lab.
Pre-req: PSY 223 with a minimum grade of D.
Grade Mode: Normal Grading Mode

PSY 324 Sensation & Perception **3 Credit hours**
Methodology and research in sensory and perceptual processes. Methodology and research in sensory and perceptual processes.
Pre-req: PSY 223 with a minimum grade of D.
Grade Mode: Normal Grading Mode

PSY 330 Human Sexual Behavior **3 Credit hours**
A psychological approach to the functioning, attitudes, varieties and development of human sexual behavior. A psychological approach to the functioning, attitudes, varieties and development of human sexual behavior.
Pre-req: PSY 201 with a minimum grade of D or PSY 201H with a minimum grade of D.
Grade Mode: Normal Grading Mode

PSY 350 Animal Behavior **3 Credit hours**
A comprehensive study of the behavior of non-human animals. A comprehensive study of the behavior of non-human animals.
Pre-req: PSY 201 or PSY 201E or PSY 201H.
Grade Mode: Normal Grading Mode

PSY 360 Personality **3 Credit hours**
Personality structure, dynamics and development. Personality structure, dynamics and development.
Pre-req: PSY 201 with a minimum grade of D or PSY 201H with a minimum grade of D.
Grade Mode: Normal Grading Mode

PSY 391 Psychology Of Aggression **3 Credit hours**
A multifaceted study of aggressive behavior in humans and other animals. Topics include biological and learned components of aggression, sex differences in aggression, violent crimes and personalities, media violence, and control of personal and group aggesssion. A multifaceted study of aggressive behavior in humans and other animals. Topics include biological and learned components of aggression, sex differences in aggression, violent crimes and personalities, media violence, and control of personal and group aggesssion.
Pre-req: PSY 201 or PSY 201E or PSY 201H and (PSY 302 or PSY 311 or PSY 408).
Grade Mode: Normal Grading Mode

PSY 406 Psychometrics **3 Credit hours**
Mental test theory and applicatons. Mental test theory and applicatons.
Pre-req: PSY 223 with a minimum grade of D.
Grade Mode: Normal Grading Mode

PSY 408 Abnormal Psychology **3 Credit hours**
An overview of the theories, assessment techniques, and treatment of maladaptive behavior. An overview of the theories, assessment techniques, and treatment of maladaptive behavior.
Pre-req: PSY 201 with a minimum grade of D or PSY 201H with a minimum grade of D.
Grade Mode: Normal Grading Mode

PSY 411 Adv Topics Developmental Psy **3 Credit hours**
This course will provide an advanced study of topics regarding change throughout the lifespan. Emphasis will be on understanding the interactions of biological, psychological and social factors. This course will provide an advanced study of topics regarding change throughout the lifespan. Emphasis will be on understanding the interactions of biological, psy- chological and social factors.
Pre-req: PSY 311.
Grade Mode: Normal Grading Mode

PSY 415 Cognitive Psychology **3 Credit hours**
Theoretical and empirical approaches to the role of pattern recognition, attention, memory, language, problem solving and decision making in human thinking.
Pre-req: PSY 201 with a minimum grade of D or PSY 201H with a minimum grade of D.
Grade Mode: Normal Grading Mode

PSY 416 Psychology of Learning **3 Credit hours**
Critical study of the major theories of learning and the related research. Critical study of the major theories of learning and the related research.
Pre-req: PSY 201 with a minimum grade of D or PSY 201H with a minimum grade of D.
Grade Mode: Normal Grading Mode

PSY 417 Inter Behavioral Stat **3 Credit hours**
An intermediate level presentation of descriptive and inferential statistics as applied in behavioral research. 2 lec-2 lab. An intermediate level presentation of descriptive and inferential statistics as applied in behavioral research. 2 lec-2 lab.
Pre-req: PSY 223 with a minimum grade of D.
Grade Mode: Normal Grading Mode

PSY 418 Psychology of Personnel **3 Credit hours**
Psychological principles and methods applied to functions in personnel administration. Psychological principles and methods applied to functions in personnel administration.
Pre-req: PSY 201 with a minimum grade of D or PSY 201H with a minimum grade of D.
Grade Mode: Normal Grading Mode

PSY 420 Intro to I-O Psychology **3 Credit hours**
A systematic study of the application of psychological methods and principles in business and industry. Emphasis is on research methods, motivation, training, leadership, personnel selection, employee safety, and job satisfaction.
Pre-req: PSY 201 with a minimum grade of D or PSY 201E with a minimum grade of D or PSY 201H with a minimum grade of D.
Grade Mode: Normal Grading Mode

PSY 425 Psychology of Cinema Symbolism **3 Credit hours**
Analysis of how signs, symbols, and archetypes influence the individual and collective psyche via film.
Grade Mode: Normal Grading Mode

PSY 426 Cross Cultural Psychology **3 Credit hours**
Emic and etic cultural concepts are considered from an American (subcultural) and international perspective. Cultural influences on healing, health and service are covered. Emic and etic cultural concepts are considered from an American (subcultural) and international perspective. Cultural influences on healing, health and service are covered.
Pre-req: PSY 201 with a minimum grade of D or PSY 201H with a minimum grade of D.
Attributes: Multicultural
Grade Mode: Normal Grading Mode

PSY 430 Psychology of Women **3 Credit hours**
This course explores theories, findings, and social issues regarding the psychology of women and gender, with emphasis on gender role socialization on people's beliefs and behaviors across the lifespan. This course explores theories, findings, and social issues regarding the psychology of women and gender, with emphasis on gender role socialization on people's beliefs and behaviors across the lifespan.
Pre-req: PSY 201 or PSY 201H.
Grade Mode: Normal Grading Mode

PSY 433 Currt Models Psychotherapy **3 Credit hours**
Introduction of theoretical models and related therapeutic strategies which influence the practice of modern psychotherapy. Introduction of theoretical models and related therapeutic strategies which influence the practice of modern psychotherapy.
Pre-req: PSY 360 with a minimum grade of D or PSY 408 with a minimum grade of D.
Grade Mode: Normal Grading Mode

PSY 435 Psych of Conspiracy Theory **3 Credit hours**
Understand, identify, and give critical analysis to the psychological and social factors that promote the support and belief of conspiracy theory.
Grade Mode: Normal Grading Mode

PSY 440 Physiological Psychology **3 Credit hours**
The relationships between physiological functions and biochemical processes and behavior. The relationships between physiological functions and biochemical processes and behavior.
Pre-req: PSY 201 with a minimum grade of D or PSY 201H with a minimum grade of D.
Grade Mode: Normal Grading Mode

PSY 443 Health Psychology **3 Credit hours**
Introduction to the contribution of psychology to the promotion and maintenance of health and the prevention and treatment of illness.
Pre-req: (PSY 201 with a minimum grade of D or PSY 201H with a minimum grade of D) and PSY 323 with a minimum grade of D.
Grade Mode: Normal Grading Mode

PSY 456 Research in Psychology **3 Credit hours**
Laboratory courses to give advanced students experience in conducting psychological research. Laboratory courses to give advanced students experience in conducting psychological research.
Pre-req: PSY 223 with a minimum grade of D and PSY 323 with a minimum grade of D.
Attributes: Capstone Course
Grade Mode: Normal Grading Mode

PSY 457 Research in Psychology **3 Credit hours**
Laboratory courses to give advanced students experience in conducting psychological research. Laboratory courses to give advanced students experience in conducting psychological research.
Pre-req: PSY 201 with a minimum grade of D or PSY 201E with a minimum grade of D or PSY 201H with a minimum grade of D.
Attributes: Capstone Course, No Textbook Required
Grade Mode: Normal Grading Mode

PSY 460 History & Systems **3 Credit hours**
An examination of the historical and philosophical antecedents of contemporary psychology. An examination of the historical and philosophical antecedents of contemporary psychology.
Pre-req: (PSY 201 with a minimum grade of D or PSY 201H with a minimum grade of D) and PSY 223 with a minimum grade of D and PSY 323 with a minimum grade of D.
Attributes: Capstone Course
Grade Mode: Normal Grading Mode

PSY 465 Love Intimacy and Attachment **3 Credit hours**
Examination of how childhood attachments, bonds, and relationships affect and influence adult perspectives on love, expectations, intimacy, fidelity, and commitment. Examination of how childhood attachments, bonds, and relationships affect and influence adult perspectives on love, expectations, intimacy, fidelity, and commitment.
Pre-req: PSY 311.
Grade Mode: Normal Grading Mode

PSY 470 I-O Psych Practicum **3 Credit hours**
The course will offer students applied observational/research experience in Personnel/Human Resource Departments under the supervision of professionals within the fields of Industrial-Organizational Psychology and Human Resources. (PR: Psy 4l8 or Psy 420 and Permission.) The course will offer students applied observational/re- search experience in Personnel/Human Resource Departments under the supervision of professionals within the fields of Industrial-Organizational Psychology and Human Resources. (PR: Psy 4l8 or Psy 420 and Permission.)
Pre-req: PSY 418 or PSY 420.
Grade Mode: Normal Grading Mode

PSY 471 Practicum in Clinical PSY **3 Credit hours**
Students work 6 hours per week in a local clinical setting where they have the opportunity to observe individual and group therapy, psychological testing, staff meetings, etc. PR: l2 hours of PSY including 408 and Permission of Instructor Students work 6 hours per week in a local clinical setting where they have the opportunity to observe individual and group therapy, psychological testing, staff meetings, etc. PR: l2 hours of PSY including 408 and Permission of Instructor
Pre-req: PSY 408.
Attributes: Capstone Course
Grade Mode: Normal Grading Mode

PSY 475 Race Culture and Development **3 Credit hours**
Examine the roles that race, ethnicity, and culture play in the physical, cognitive, intellectual, and social developmental processes of people of color. Examine the roles that race, ethnicity, and culture play in the physical, cognitive, intellectual, and social developmental processes of people of color.
Pre-req: PSY 201 with a minimum grade of D or PSY 201H with a minimum grade of D.
Grade Mode: Normal Grading Mode

PSY 480 Special Topics **1-4 Credit hours**
Pre-req: PSY 201 or PSY 201H.
Grade Mode: Normal Grading Mode

PSY 481 Special Topics **1-4 Credit hours**
Pre-req: PSY 201 or PSY 201H.
Grade Mode: Normal Grading Mode

PSY 482 Special Topics **1-4 Credit hours**
Pre-req: PSY 201 or PSY 201H.
Grade Mode: Normal Grading Mode

PSY 483 Special Topics **1-4 Credit hours**
Pre-req: PSY 201 or PSY 201H.
Grade Mode: Normal Grading Mode

PSY 485 Independent Study **1-4 Credit hours**
A course or seminar on some aspect of Psychology not otherwise treated in regular course offerings. A course or seminar on some aspect of Psychology not other- wise treated in regular course offerings.
Pre-req: PSY 201 with a minimum grade of D or PSY 201H with a minimum grade of D.
Grade Mode: Normal Grading Mode

PSY 486 Independent Study **1-4 Credit hours**
A course or seminar on some aspect of Psychology not otherwise treated in regular course offerings. A course or seminar on some aspect of Psychology not other- wise treated in regular course offerings.
Pre-req: PSY 201 with a minimum grade of D or PSY 201E with a minimum grade of D or PSY 201H with a minimum grade of D.
Attributes: No Textbook Required
Grade Mode: Normal Grading Mode

PSY 487 Independent Study **1-4 Credit hours**
A course or seminar on some aspect of Psychology not otherwise treated in regular course offerings. A course or seminar on some aspect of Psychology not other- wise treated in regular course offerings.
Pre-req: PSY 201 or PSY 201H.
Grade Mode: Normal Grading Mode

PSY 488 Independent Study **1-4 Credit hours**
A course or seminar on some aspect of Psychology not otherwise treated in regular course offerings. A course or seminar on some aspect of Psychology not other- wise treated in regular course offerings.
Pre-req: PSY 201 or PSY 201H.
Grade Mode: Normal Grading Mode

PSY 490 Intro to Teaching in Psych **3 Credit hours**
This course is designed to provide students with an introductory experience to teaching in psychology.
Attributes: Capstone Course
Grade Mode: Normal Grading Mode

PSY 491 Intro to Teaching in Psych **3 Credit hours**
This course is designed to provide students with an introductory experience to teaching in psychology.
Attributes: Capstone Course
Grade Mode: Normal Grading Mode

PSY 499 PSY Capstone Seminar **3 Credit hours**
A capstone course which integrates research methods, critical analysis, and problem solving applied to psychological questions and issues. A capstone course which integrates research methods, critical analysis, and problem solving applied to psychological questions and issues.
Pre-req: PSY 223 with a minimum grade of D and PSY 323 with a minimum grade of D.
Attributes: Capstone Course
Grade Mode: Normal Grading Mode

Faculty

Professors
Beard, Footo-Linz, Fugett-Fuller, LeGrow, Mulder, Pittenger, Tiano

Associate Professors
Atkins, Day-Brown, Goel, Hinton, Koontz, Linz

Assistant Professors
Boggess, Canady, Halley, Toyama

Psychology, Accelerated Master's Degree Program

Students who have completed at least 90 hours towards their bachelor's degrees, have at least a 3.5 overall undergraduate GPA, and a 3.5 GPA in Psychology are eligible to apply for our Accelerated Master's Degree program. Students accepted into the program can begin taking graduate coursework up to a maximum of 12 hours in place of elective undergraduate courses. Students reduce the number of hours required to complete the bachelor's degree by the number of graduate hours they complete (up to a maximum of 12). They must meet all the other degree requirements for their bachelor's degrees while they work on their master's degrees. Interested students are encouraged to discuss this option with their advisors to obtain further details and information on the application process.

Psychology, B.A.

- General Education Course

- Milestone course: a key success marker for your major. See your advisor to discuss the importance of this course in your plan of study.

Major

The Core Curriculum is designed to foster critical thinking skills and introduce students to basic domains of thinking that transcend disciplines. The Core applies to all majors. Information on specific classes in the Core can be found at https://www.marshall.edu/gened/.

Code	Title	Credit Hours
Core Curriculum		
Core 1: Critical Thinking		
FYS 100	First Yr Sem Critical Thinking	3
Core I: Critical Thinking		3
Core I: Critical Thinking		3
Core 2		
ENG 101	Beginning Composition	3
ENG 201	Advanced Composition	3
CMM 103	Fund Speech-Communication	3
Core II: Math		3
Core II Natural/Physical Science		4
Core II Humanities		3
PSY 201	Introductory Psychology (CT) (Core II Social Science)	3
Core II Fine Arts		3
Additional University Requirements		
Writing Intensive		3
Writing Intensive		3
Multicultural or International		3
PSY Capstone		3
College-Specific		
Foreign Language 101		3
Foreign Language 102		3
Foreign Language 203		3
Foreign Language 204		3
COLA Literature		3
COLA Literature		3
COLA Humanities		3
PSY 223	Elem Behavioral Stat (COLA Social Science)	3
COLA Social Science (not PSY)		3
COLA Social Science (not PSY)		3
COLA Natural/Physical Science		4
COLA International		3
COLA Multicultural		3
Major-Specific		
PSY 100	Psychology as a Major	1
PSY 201	Introductory Psychology (CT)	3
PSY 223	Elem Behavioral Stat	3
PSY 323	Experimental Psychology	3
Social/Personality Perspective Elective		
Select one of the following:		3
PSY 302	Social Psychology	
PSY 360	Personality	
PSY 408	Abnormal Psychology	
PSY 426	Cross Cultural Psychology	
Experimental/Biopsychology Perspective Elective		
Select one of the following:		3
PSY 324	Sensation & Perception	
PSY 415	Cognitive Psychology	
PSY 416	Psychology of Learning	
PSY 440	Physiological Psychology	
Developmental/Individual Perspective		
Select one of the following:		3
PSY 311	Child Development	
PSY 312	Adult Development	
PSY 330	Human Sexual Behavior	
PSY 475	Race Culture and Development	
Capstone Course		
After consulting with your advisor, select one of the following capstone options. Not all will be available every semester, so you may not be able to enroll:		3
PSY 456	Research in Psychology	
PSY 457	Research in Psychology	
PSY 460	History & Systems	
PSY 470	I-O Psych Practicum	
PSY 471	Practicum in Clinical PSY	
PSY 480	Special Topics	
PSY 499	PSY Capstone Seminar	
300/400 PSY Elective		3
300/400 PSY Elective		3
300/400 PSY Elective		3
300/400 PSY Elective		3
Free Elective		3
Free Elective		3
Free Elective		3
Free Elective		3
Free Elective		3
Free Elective		2

Major Information

- The total number of free electives will depend on the amount of double and triple counting of requirements.
- See course attributes each semester for courses that meet multiple requirements. Questions about requirements should be directed to the College of Liberal Arts (304-696-2350). Core II and COLA requirements may not be double counted.
- Forty-eight credit hours (sixteen 3-hour courses) must be at the 300/400 level.
- Students must earn a *C* or better in ENG 201 Advanced Composition and all foreign language courses.
- Minimum of 120 hours to graduate.

- General Education Course

- Milestone course: a key success marker for your major. See your advisor to discuss the importance of this course in your plan of study.

Four Year Plan

Psychology is the scientific study of human cognition, affect, behavior, and relationships. Psychologists seek to understand, predict and influence behavior through research into a wide range of issues which affect human functioning, including social, physiological, developmental, cognitive and emotional factors. Research methodology is central to the discipline, and all Psychology majors learn about research strategies and methods of data analysis.

Course	Title	Credit Hours
First Year		
First Semester		
CMM 103	Fund Speech-Communication	3
ENG 101	Beginning Composition	3
PSY 201	Introductory Psychology (CT) (Core II Social Sci)	3
PSY 100	Psychology as a Major	1
Core II: Math		3
UNI 100	Freshman First Class	1
	Credit Hours	**14**
Second Semester		
ENG 201	Advanced Composition	3
Core II Physical/Natural Science		4
PSY 223	Elem Behavioral Stat (COLA Social Sci)	3
FYS 100	First Yr Sem Critical Thinking	3
Core II Fine Arts		3
	Credit Hours	**16**
Second Year		
First Semester		
Writing Intensive or Free Elective		3
PSY 323	Experimental Psychology	3
Foreign Language 101		3
COLA Literature		3
COLA Social Science (not PSY)		3
	Credit Hours	**15**
Second Semester		
Writing Intensive or Free Elective		3
Foreign Language 102		3
COLA Physical/Natural Science		4
Core II Humanities (MC/I)		3
Social/Personality Perspective Elective		3
	Credit Hours	**16**
Third Year		
First Semester		
COLA Social Science (not PSY)		3
Foreign Language 203		3
Developmental/Individual Perspective Elective		3
300/400 PSY Elective		3
COLA Multicultural		3
	Credit Hours	**15**
Second Semester		
Foreign Language 204		3
COLA Humanities		3
Free Elective		3
Experimental/Biopsychology Perspective Elective		3
COLA International or Free Elective		3
	Credit Hours	**15**
Fourth Year		
First Semester		
300/400 PSY Elective		3
300/400 PSY Elective		3
COLA Literature		3
Free Elective		3
Free Elective		3
	Credit Hours	**15**
Second Semester		
PSY Capstone		3
300/400 PSY Elective		3
Free Elective		3
Free Elective		3
Free Elective		2
	Credit Hours	**14**
	Total Credit Hours	**120**

Psychology, Minor

Students may choose to minor in Psychology, which requires a total of 15 credit hours in Psychology. Students are free to choose any 15 hours, but are encouraged to consult with a department faculty member about the appropriate choices, given their educational and career goals.

Department of Sociology and Anthropology

Contacts: Dr. Kristi Fondren, Chair
Website: http://www.marshall.edu/dosa/

Sociology

Sociology is the study of human societies. We ask basic questions like "why do humans do what we do" and "how does society work." Along the way we pick up essential human questions like: What does it mean when we say that we live in a socially constructed reality? What is the place of the individual in society? Do we have "free will," or are our personal actions determined by social forces? Is social life really what Thomas Hobbes called the "war of all against all"? Why do we have social order?

If you have ever thought about questions like these, you might want to consider a degree in Sociology. Humans are social beings and we interact in a social environment. Sociology is the scientific discipline that studies human behavior and social interactions of individuals, groups, organizations and whole societies. Sociology is a science, and was identified in the 1830s as one of the five "mother sciences" along with astronomy, chemistry, physics, and biology, and as such overlaps with other social sciences (Political Science, Economics, Psychology, and Anthropology) though we maintain our unique perspective.

Sociology focuses primarily on contemporary societies, though we incorporate a historical and developmental perspective.

The Sociology program at Marshall University offers students the opportunity to study the intricacies of social life: how to negotiate the collaboratively constructed institutions through which our social world works, how social stratification affects opportunities for individuals and groups, how to critically analyze the problems inherent in the way we construct society, how to empirically determine the facts we construct into truths. The social and analytical skills developed through the program are essential for any job dealing with people and organizations – especially those dealing in multiethnic and global environments and that require breadth and adaptability.

You don't often see jobs with "sociologist" in the title, but a Sociology B.A. is recognized as an excellent preparation for a wide variety of occupations, especially for careers in social policy, education, union organizing or other social movements, health care, criminology, aging network, industrial or public relations, marketing, human resource management, organizational research, or community and social services. Of course, Marshall's Sociology program also offers an excellent preparation for professional degrees and/or advanced degrees in Sociology. A recent study by CareerCast.com ranked Sociology as the eighth most appealing job in its analysis of 200 occupations based on job characteristics such as perceived work environment, income, employment outlook, physical demands, security, and stress.

The Sociology program at Marshall seeks to ensure that each student develops a solid foundation in the principles, theories and techniques of analysis in the discipline. While allowing for flexibility to accommodate students' diverse interests, the curriculum ensures that students are introduced to social theory, learn to employ the basic methods of the discipline, and take courses that provide a good orientation in the discipline both in breadth and depth.

Students majoring or minoring in Sociology are strongly encouraged to discuss with an advisor (in the department and/or in the office of the dean of the College of Liberal Arts) ways in which the requirements in the major/minor simultaneously cover parts of the general education requirements in the College of Liberal Arts and/or the Core Curriculum.

Honors in Sociology

The very best Sociology students are encouraged to consider graduating with program honors. To graduate with Honors in Sociology a student must enroll in two subsequent 3 credit courses for a total of 6 credits over one year. A 3 credit SOC 485 Independent Study followed by SOC 493 Senior Seminar II will be the ordinary sequence, but if necessary the courses can be taken in the reversed order.

The prerequisites for obtaining permission to pursue the Honors in Sociology option are: the student must be a declared Sociology major in Junior or Senior standing, have a GPA in all concluded Sociology classes of a minimum of 3.5, and have a written agreement with a faculty member, who will act as the advisor. In the first term, the student will prepare a study plan and literature review for an independent research project; at the end of the term, this work must be presented to a committee of at least three faculty members who will together determine the grade.

The prerequisites for pursuing the second term of the honors option include: an *"A"* in the first term, a GPA in all concluded Sociology classes of a minimum of 3.5, and written permission by the advisor. In the second semester, the student will conduct the proposed research project and report her/his findings (the report will ordinarily be a written paper, but can be supplemented by presentations in other media – an exhibition, a film, etc.). At the end of the term, this work must be presented to a committee of at least three faculty members who will together determine the grade. The grade *"A"* for the work in the second term will be recognized on the student's transcript as "Graduating with Honors in Sociology."

Anthropology

Anthropology is the systematic study of humans, their practices, and the myriad ways they experience these practices. Anthropologists study humanity in its diverse cultural, social, physical and linguistic forms. As an academic discipline, Anthropology bridges the humanities and social sciences in addressing fundamental questions having to do not only with how the human world works and how people negotiate their social and cultural realities but also with what it *means* to be human. Anthropology draws from prehistorical, historical, and contemporary cases and is distinct in addressing all levels of sociopolitical organization and subsistence strategies ranging from foraging bands and horticultural tribes to modern industrialized states and the globalized realities of the world today. Anthropology is, by its nature, interdisciplinary and international in both theory and practice.

Our program offers students from diverse backgrounds the opportunity to thoroughly and creatively explore the world and peoples around them. Anthropology classes stress the exchange of ideas and build strength in critical thinking, communication, and intellectual exploration. An anthropological perspective will become increasingly important in the 21st century. There is today a growing demand for sensitivity to the values, beliefs, and cultural structures of other groups that might be different from one's own. In all parts of society, people progressively need the ability to live, work, and appreciate diversity while simultaneously becoming more aware of the relations that connect various groups and the commonalities they share.

As reported by the American Anthropological Association and the Society for American Archaeology, demand for graduates with degrees in Anthropology is high. Anthropology graduates work in many fields in which research on humans and their behavior is needed, including private corporations, nonprofit organizations, and government agencies. Anthropology majors commonly find employment in state and federal governments, non-governmental and other international aid organizations, education, business, human resources, social work, historical resource management/field-technicians in archaeology, and, increasingly, health care. Many Anthropology majors continue to graduate school in such fields as: Anthropology, History, Law, Geography or Medicine.

The Anthropology program at Marshall University seeks to ensure that each student develops a solid foundation in the basic principles, theories and techniques of analysis within the discipline. The curriculum ensures that students are introduced to all four disciplinary subfields: social-cultural anthropology, physical-biological anthropology, archaeology, and linguistics. Since students majoring in anthropology vary in their interests and career goals, the curriculum allows for flexibility in developing individual courses of study, including opportunities for involvement in faculty research through course offerings and independent study.

Honors in Anthropology

The very best Anthropology students are encouraged to consider graduating with program honors. To graduate with Honors in Anthropology a student must enroll in two subsequent 3 credit courses for a total of 6 credits over one year. A 3 credit ANT 485 Independent Study followed by ANT 493 Senior Seminar II will be the ordinary sequence, but if necessary the courses can be taken in the reversed order.

The prerequisites for obtaining permission to pursue the Honors in Anthropology option are: the student must be a declared Anthropology major in Junior or Senior standing, have a GPA in all concluded Anthropology classes of a minimum of 3.5, and have a written agreement with a faculty member, who will act as the advisor. In the first term, the student will prepare a study plan and literature review for an independent research project; at the end of the term, this work must be presented to a committee of at least three faculty members who will together determine the grade.

The prerequisites for pursuing the second term of the honors option include: an *"A"* in the first term, a GPA in all concluded Anthropology classes of a minimum of 3.5, and written permission by the advisor. In the second semester, the student will conduct the proposed research project and report her/his findings (the report will ordinarily be a written paper, but can be supplemented by presentations in other media – an exhibition, a film, etc.). At the end of the term, this work must be presented to a committee of at least three faculty members who will together determine the grade. The grade *"A"* for the work in the second term will be recognized on the student's transcript as "Graduating with Honors in Anthropology."

Programs

- Anthropology, B.A. (p. 331)
- Anthropology, Minor (p. 333)
- Sociology, Accelerated Master's Degree Program (p. 334)
- Sociology, B.A. (p. 334)
- Sociology, Minor (p. 336)

Courses

- General Education Course

Anthropology

ANT 201 Cultural Anthropology (CT) 3 Credit hours
Introduction to the scientific study of culture with emphasis on the cultures of small-scale societies. This class emphasizes critical thinking skills. Introduction to the scientific study of culture with emphasis on the cultures of small-scale societies. This class emphasizes critical thinking skills.
Attributes: Critical Thinking, International, Core II Social Sciences
Grade Mode: Normal Grading Mode

ANT 201H Cultural Anthropol Honors (CT) 3 Credit hours
Introduction to the scientific study of culture with emphasis on the cultures of small-scale societies. This class emphasizes critical thinking skills. For the honors student. Introduction to the scientific study of culture with emphasis on the cultures of small-scale societies. This class emphasizes critical thinking skills. For the honors student.
Pre-req: Admitted Honors College with a score of 1.
Attributes: Critical Thinking, Honors, International, Core II Social Sciences
Grade Mode: Normal Grading Mode

ANT 280 Special Topics 1-4 Credit hours
Grade Mode: Normal Grading Mode

ANT 281 Special Topics 1-4 Credit hours
Grade Mode: Normal Grading Mode

ANT 282 Special Topics 1-4 Credit hours
Grade Mode: Normal Grading Mode

ANT 283 Special Topics 1-4 Credit hours
Grade Mode: Normal Grading Mode

ANT 301 Social Statistics 3 Credit hours
Introduction to statistical analysis of social data. Introduction to statistical analysis of social data.
Grade Mode: Normal Grading Mode

ANT 322 Archaeology 3 Credit hours
Introduction to the methods and theory of archaeology. Introduction to the methods and theory of archaeology.
Grade Mode: Normal Grading Mode

ANT 323 Archaeolog Field Train 3-6 Credit hours
Supervised instruction in on-site archaeological data collection, survey and excavation techniques. Supervised instruction in on-site archaeological data collection, survey and excavation techniques.
Grade Mode: Normal Grading Mode

ANT 324 Archaeological Analysis 3 Credit hours
Supervised instruction in processing and analyzing archaeological materials recovered by fieldwork. Supervised instruction in processing and analyzing archaeological materials recovered by fieldwork.
Pre-req: ANT 322.
Grade Mode: Normal Grading Mode

ANT 325 World Prehistory 3 Credit hours
An introduction to the archaeology of pre-literate cultures, from the emergence of Homo Sapiens to the present. An introduction to the archaeology of pre-literate cultures, from the emergence of Homo Sapiens to the present.
Grade Mode: Normal Grading Mode

ANT 326 Classical Archaeology 3 Credit hours
Archaeology of ancient Greece and Rome, and their colonies and imperial domains. Archaeology of ancient Greece and Rome, and their colonies and imperial domains.
Grade Mode: Normal Grading Mode

ANT 331 Physical Anthropology 3 Credit hours
The study of human physical evolution, from the earliest hominins to the present day, based on the study of primatology, human genetics, and the paleontological record. The study of human physical evolution, from the earliest hominins to the present day, based on the study of primatology, human genetics, and the paleontological record.
Grade Mode: Normal Grading Mode

ANT 361 Ethnographic Research **3 Credit hours**
A project-based introduction to ethnographic research design and practice. A project-based introduction to ethnographic research design and practice.
Grade Mode: Normal Grading Mode

ANT 362 Health, Culture & Society **3 Credit hours**
A cross-cultural, historical, and bio-cultural examination through case-study of social and environmental factors that affect human health and disease.
Pre-req: ANT 201 or ANT 201H or SOC 200 or SOC 200H.
Attributes: Multicultural
Grade Mode: Normal Grading Mode

ANT 363 US Culture and the Family **3 Credit hours**
An historically and ethnographically informed consideration of the changing meaning and place of family and work in everyday American life, media, and politics. An historically and ethnographically informed consideration of the changing meaning and place of family and work in everyday American life, media, and politics.
Grade Mode: Normal Grading Mode

ANT 364 Expressive Culture **3 Credit hours**
Exploration of expressive cultural forms in the construction of personal and communal identities and their meaningful attachment to particular geographic places. Exploration of expressive cultural forms in the construction of personal and communal identities and their meaningful attachment to particular geographic places.
Attributes: Social Sciences
Grade Mode: Normal Grading Mode

ANT 365 Anthropology through Film **3 Credit hours**
Exploration of film as general anthropological field of interest with emphasis on understanding selected films as cultural texts and association with particular and changing cultural, political, economics and historical contexts. Exploration of film as general anthropological field of interest with emphasis on understanding selected films as cultural texts and association with particular and changing cultural, political, economics and historical contexts.
Grade Mode: Normal Grading Mode

ANT 371 Linguistic Anthropology **3 Credit hours**
Introduction to the theories and methodologies of linguistic anthropology and to language as a cultural phenomenon and form of diversity.
Attributes: International
Grade Mode: Normal Grading Mode

ANT 372 Methods in Language & Culture **3 Credit hours**
In this course, students will learn a variety of methods for studying language and culture used in anthropology, sociolinguistics, and applied linguistics by collecting and analyzing actual linguistic data
Grade Mode: Normal Grading Mode

ANT 402 Principles of GIS **4 Credit hours**
Introduction to Geographic Information Systems (GIS) principles, techniques, and applications for the social and natural sciences with emphasis on foundational geographic principles in a lecture/lab format. Introduction to Geographic Information Systems (GIS) principles, techniques, and applications for the social and natural sciences with emphasis on foundational geographic principles in a lecture/lab format.
Attributes: Digital Humanities
Grade Mode: Normal Grading Mode

ANT 411 Deconstructing Appalachia **3 Credit hours**
Exploration of the historical and cultural significance of Appalachia in the American experience and imagination.
Attributes: American Institutions
Grade Mode: Normal Grading Mode

ANT 412 Appalachian Field Exp I **3-6 Credit hours**
Supervised fieldwork in an Appalachian community studying the social and cultural characteristics of the area.
Pre-req: ANT 411.
Grade Mode: Normal Grading Mode

ANT 428 Arch Theory and Analysis **3 Credit hours**
An introduction to archaeological theory and its application to the material record of cultures, past and present.
Grade Mode: Normal Grading Mode

ANT 440 African Cultures **3 Credit hours**
Comparative analysis of the ethnic groups of Africa, using archaeological and ethnographic data.
Attributes: International
Grade Mode: Normal Grading Mode

ANT 441 Oceania **3 Credit hours**
Comparative analysis of the indigenous peoples and cultures of Melanesia and Polynesia, using archaeological and ethnographic data.
Grade Mode: Normal Grading Mode

ANT 442 The Native Americans **3 Credit hours**
Comparative analysis of the indigenous inhabitants of North America, using archaeological and ethnographic data. PR: Six hours of anthropology or departmental permission. Comparative analysis of the indigenous inhabitants of North America, using archaeological and ethnographic data. PR: Six hours of anthropology or departmental permission.
Attributes: American Institutions
Grade Mode: Normal Grading Mode

ANT 445 American Ethnicities **3 Credit hours**
Comparative overview of historical and contemporary patterns of immigration, settlement, and inter-ethnic relations in the United States.
Attributes: International
Grade Mode: Normal Grading Mode

ANT 460 Crime and Custom **3 Credit hours**
This course examines law and legal processes in diverse cultures from anthropological and law and society perspectives.
Attributes: Multicultural
Grade Mode: Normal Grading Mode

ANT 464 Design, Planning & Health **3 Credit hours**
Social scientific study of how places where people live, work, and recreate affect quality of life and overall health with an emphasis on design decisions within urban and regional planning.
Attributes: Digital Humanities, Multicultural
Grade Mode: Normal Grading Mode

ANT 465 Disaster, Culture & Health **3 Credit hours**
Study of contemporary environmental and social problems emphasizing health impacts of natural and technological disasters on communities around the world.
Attributes: Digital Humanities, International
Grade Mode: Normal Grading Mode

ANT 466 Culture and Environment **3 Credit hours**
This course will examine the symbolic and structural dimensions of struggles over defining, organizing, and controlling the natural environment from biocultural perspective.
Attributes: International
Grade Mode: Normal Grading Mode

ANT 467 Culture in Ethnographies **3 Credit hours**
In depth exploration and comparison of diverse cultural groups through reading and discussing ethnographic texts. PR: Six credit hours of anthropology or departmental permission. In depth exploration and comparison of diverse cultural groups through reading and discussing ethnographic texts. PR: Six credit hours of anthropology or departmental permission.
Attributes: International
Grade Mode: Normal Grading Mode

ANT 468 National Identity **3 Credit hours**
Exploration of cultural, political and economic processes that contribute to creation and maintenance of the modern national state as an imagined community.
Grade Mode: Normal Grading Mode

ANT 472 Language, Gender and the Body **3 Credit hours**
Uses methods and theories from anthropology, linguistics, and sociology to examine how gendered bodies in different cultures are constructed through ways of acting in the world.
Attributes: Multicultural
Grade Mode: Normal Grading Mode

ANT 478 Intro to Sociolinguistics **3 Credit hours**
Sociolinguistics is the study of the effects of language in society relevant to discourse practices, language attitudes, variations, shifts and changes.
Pre-req: ENG 102 or ENG 302 or ENG 201H.
Grade Mode: Normal Grading Mode

ANT 480 Special Topics **1-4 Credit hours**
Study of topics of interest not covered in regularly scheduled courses.
Grade Mode: Normal Grading Mode

ANT 481 Special Topics **1-4 Credit hours**
Study of topics of interest not covered in regularly scheduled courses.
Grade Mode: Normal Grading Mode

ANT 482 Special Topics **1-4 Credit hours**
Study of topics of interest not covered in regularly scheduled courses.
Grade Mode: Normal Grading Mode

ANT 483 Special Topics **1-4 Credit hours**
Study of topics of interest not covered in regularly scheduled courses. Study of topics of interest not ccovered in regularly scheduled courses. PR: Six credit hours of anthropology or deparmental permission.
Grade Mode: Normal Grading Mode

ANT 485 Independent Study **1-4 Credit hours**
Individual study of topics not offered in regularly scheduled courses. Advance permission required. Individual study of topics not offered in regularly scheduled courses. Advance permission required.
Grade Mode: Normal Grading Mode

ANT 486 Independent Study **1-4 Credit hours**
Individual study of topics not offered in regularly scheduled courses. Advance permission required. Individual study of topics not offered in regularly scheduled courses. Advance permission required.
Grade Mode: Normal Grading Mode

ANT 487 Independent Study **1-4 Credit hours**
Individual study of topics not offered in regularly scheduled courses. Advance permission required. Individual study of topics not offered in regularly scheduled courses. Advance permission required.
Grade Mode: Normal Grading Mode

ANT 488 Independent Study **1-4 Credit hours**
Individual study of topics not offered in regularly scheduled courses. Advance permission required. Individual study of topics not offered in regularly scheduled courses. Advance permission required.
Grade Mode: Normal Grading Mode

ANT 489 Internship **1-4 Credit hours**
Supervised practicum founded on anthropological knowledge in a host institution. 40-45 hours of internship work correspond with 1 credit hour.
Grade Mode: Normal Grading Mode

ANT 491 Theory in Ethnology **3 Credit hours**
Introduction to major theoretical traditions of cultural anthropology with emphasis on the connection between fieldwork and development of theory.
Attributes: Multicultural
Grade Mode: Normal Grading Mode

ANT 492 Senior Seminar I **3 Credit hours**
Application of anthropological theory and practice to individually designed projects. This course fulfills the capstone requirement for undergraduate anthropology majors.
Grade Mode: Normal Grading Mode

ANT 493 Senior Seminar II **3 Credit hours**
Application of anthropological theory and practice to individually designed projects. Fulfills the capstone requirement for undergraduate majors.
Attributes: Capstone Course
Grade Mode: Normal Grading Mode

Sociology

SOC 200 Introductory Sociology (CT) **3 Credit hours**
Introduction to the study of human society. This class emphasizes critical thinking skills. Introduction to the study of human society. This class emphasizes critical thinking skills.
Attributes: American Institutions, Critical Thinking, Multicultural, Core II Social Sciences
Grade Mode: Normal Grading Mode

SOC 200H Intro Sociology Honors (CT) **3 Credit hours**
Introduction to the study of human society for the honors student. This course emphasizes critical thinking skills.
Pre-req: Admitted Honors College with a score of 1.
Attributes: American Institutions, Critical Thinking, Honors, Multicultural, Core II Social Sciences
Grade Mode: Normal Grading Mode

SOC 280 Special Topics **1-4 Credit hours**
Selected topics not covered in regular course offerings. Selected topics not covered in regular course offerings.
Grade Mode: Normal Grading Mode

SOC 281 Special Topics **1-4 Credit hours**
Selected topics not covered in regular course offerings. Selected topics not covered in regular course offerings.
Grade Mode: Normal Grading Mode

SOC 282 Special Topics **1-4 Credit hours**
Selected topics not covered in regular course offerings. Selected topics not covered in regular course offerings.
Grade Mode: Normal Grading Mode

SOC 283 Special Topics **1-4 Credit hours**
Selected topics not covered in regular course offerings. Selected topics not covered in regular course offerings.
Grade Mode: Normal Grading Mode

SOC 300 Social Organization **3 Credit hours**
Analysis of sociological conceptual systems and theories. Analysis of sociological conceptual systems and theories.
Attributes: American Institutions
Grade Mode: Normal Grading Mode

SOC 310 Individual and Society **3 Credit hours**
Study of sociological perspectives on social interaction and the relationship between the individual and society.
Attributes: American Institutions
Grade Mode: Normal Grading Mode

SOC 311 Deviance and Social Control **3 Credit hours**
Study of the basic concepts and theories of deviant behavior and the mechanism of social control.
Attributes: American Institutions
Grade Mode: Normal Grading Mode

SOC 313 Contemp Soc Issues and Prob **3 Credit hours**
Analysis of current social issues and problems from a variety of sociological perspectives. Issues and problems will vary from semester to semester.
Pre-req: SOC 200 or SOC 200H or SOC 200E.
Attributes: American Institutions
Grade Mode: Normal Grading Mode

SOC 330 Soc of Community Health **3 Credit hours**
An investigation of those social institutions and environmental, social, and personal factors in the community to maintain health and provide support in illness as related to social theory..
Attributes: American Institutions
Grade Mode: Normal Grading Mode

SOC 342 American Society **3 Credit hours**
Sociological analysis of the basic and cultural features of contemporary American society. Sociological analysis of the basic and cultural features of contemporary American society.
Attributes: American Institutions
Grade Mode: Normal Grading Mode

SOC 344 Social Research I **3 Credit hours**
Introduction to systematic social research methodology. Introduction to systematic social research methodology.
Pre-req: SOC 200 or SOC 200H.
Grade Mode: Normal Grading Mode

SOC 345 Social Statistics I **3 Credit hours**
Introudction to statistical analysis of social data. Introudction to statistical analysis of social data.
Pre-req: SOC 200 with a minimum grade of D or SOC 200H with a minimum grade of D.
Attributes: Statistics
Grade Mode: Normal Grading Mode

SOC 360 Sociological Theory **3 Credit hours**
Introduction to the dominant theoretical perspectives in sociology examining the assumptions about human nature, society and sociology that constitute each theoretical tradition.
Pre-req: SOC 200 or SOC 200H.
Grade Mode: Normal Grading Mode

SOC 362 Health, Culture and Society **3 Credit hours**
A cross-cultural, historical, and bio-cultural examination through case-study of social and environmental factors that affect human health and disease.
Pre-req: ANT 201 or ANT 201H or SOC 200 or SOC 200H.
Attributes: Multicultural
Grade Mode: Normal Grading Mode

SOC 375 Social Stratification **3 Credit hours**
Introduction to the analysis of structured social inequality with emphasis on the dimensions of social class, race and gender.
Attributes: American Institutions
Grade Mode: Normal Grading Mode

SOC 401 Population & Human Ecology **3 Credit hours**
The course focuses on population and its relation to characteristics of environment. Specifically, it is designed to discuss the interaction of population processes and resources.
Attributes: International
Grade Mode: Normal Grading Mode

SOC 403 Social Research II **3 Credit hours**
Intermediate social research methodology with emphasis on research design. Intermediate social research methodology with emphasis on research design.
Pre-req: SOC 344.
Grade Mode: Normal Grading Mode

SOC 408 The Family **3 Credit hours**
Theoretical analysis of the family as a primary social institution. Theoretical analysis of the family as a primary social institution.
Pre-req: SOC 200 or SOC 200H.
Attributes: American Institutions
Grade Mode: Normal Grading Mode

SOC 413 Social Movements & Soc Change **3 Credit hours**
Analysis of large-scale social change, including intentional social movements and revolutions.
Attributes: American Institutions
Grade Mode: Normal Grading Mode

SOC 420 Criminology **3 Credit hours**
An overview of sociological criminology, including an examination of explanations of criminal behavior, types of criminal activity, and an analysis of the criminal justice system.
Attributes: American Institutions
Grade Mode: Normal Grading Mode

SOC 423 Social Class Power & Conflict **3 Credit hours**
Theoretical analysis of economic and political inequality and the role of social conflict in the process of large- scale social organization.
Attributes: American Institutions
Grade Mode: Normal Grading Mode

SOC 425 Race and Ethnicity **3 Credit hours**
Diverse theoretical approaches to the meaning of race and ethnicity and the character of racial/ethnic relations, with substantive focus primarily on the U.S.
Attributes: American Institutions
Grade Mode: Normal Grading Mode

SOC 430 Women in Sports **3 Credit hours**
The history of women in sport, gender equity, opportunities for women in intercollegiate and professional sports (such as participant, coach, trainer, journalist, agent, and promoter), and physiological perspectives.
Grade Mode: Normal Grading Mode

SOC 432 Sociology of Appalachia **3 Credit hours**
Study of the economics, politics, and social relations of Appalachia, including contemporary debates.
Grade Mode: Normal Grading Mode

SOC 433 Sociology of Work **3 Credit hours**
Study of the organization and structure of the work plant as a social system; the meaning and organization of work; managerial functions; management-labor relations; and human relations in industry. Study of the organization and structure of the work plant as a social system; the meaning and organization of work; mana- gerial functions; management-labor relations; and human re- lations in industry.
Attributes: American Institutions
Grade Mode: Normal Grading Mode

SOC 440 Intro to the Soc of Aging **3 Credit hours**
An introduction to the social processes and consequences of growing older for both the individual and society.
Pre-req: SOC 200 or SOC 200H.
Grade Mode: Normal Grading Mode

SOC 442 Urban Sociology **3 Credit hours**
The sociology of urban and metropolitan communities. The sociology of urban and metropolitan communities.
Attributes: American Institutions
Grade Mode: Normal Grading Mode

SOC 443 Evaluation and Survey Research **3 Credit hours**
Analysis and application of principles/methods of survey design and the theories/methods for assessing the outcomes of applied organizational programs to affect change in people and/or social conditions.
Grade Mode: Normal Grading Mode

SOC 450 Sociology of Religion **3 Credit hours**
Sociological analysis of religion as a social institution. Sociological analysis of religion as a social institution.
Attributes: American Institutions
Grade Mode: Normal Grading Mode

SOC 451 Science, Knowledge, and Tech **3 Credit hours**
Exploration of the effects of social factors on the development and authorization of knowledge claims, especially science and technology. Retirement is examined as a process, an event, and a role. Retirement is analyzed from the point of view of the in- dividual and society.
Pre-req: SOC 200.
Grade Mode: Normal Grading Mode

SOC 452 Soc of Death & Dying **3 Credit hours**
Study of death and dying as a societal and cultural phenomenon. Explores how institutions within our society deal with death. Study of death and dying as a societal and cultural phe- nomenon. Explores how institutions within our society deal with death.
Pre-req: SOC 200 with a minimum grade of D or SOC 200H with a minimum grade of D.
Grade Mode: Normal Grading Mode

SOC 455 Sociology of Sex and Gender **3 Credit hours**
Analysis of social differentiation and inequality by gender, with a focus on the contemporary U.S.
Grade Mode: Normal Grading Mode

SOC 460 Holocaust and Genocide **3 Credit hours**
An examination of the Holocaust and other genocides from an interdisciplinary social science perspective. An examination of the Holocaust and other genocides from an interdisciplinary social science perspective.
Grade Mode: Normal Grading Mode

SOC 465 Environment and Society **3 Credit hours**
A critical examination of the link between society and the environment, including ideas about nature, wilderness, and the wild causes of environmental degradation and responses to the environmental issues.
Grade Mode: Normal Grading Mode

SOC 466 Culture and Environment **3 Credit hours**
This course will examine the symbolic and structural dimensions of struggles over defining, organizing, and controlling the natural environment from a biocultural perspective.
Attributes: International
Grade Mode: Normal Grading Mode

SOC 468 National Identity **3 Credit hours**
Exploration of cultural, political and economic processes that contribute to creation and maintenance of the modern nation state as an imagined community.
Grade Mode: Normal Grading Mode

SOC 470 Field Exper in Applied SOC **3-6 Credit hours**
Supervised fieldwork in public or private agencies affording students an opportunity to apply sociological knowledge and skills in addressing practical problems.
Grade Mode: Normal Grading Mode

SOC 480 Special Topics **1-4 Credit hours**
Study of topics of interest not covered in regularly scheduled courses. Study of topics of interest not covered in regularly scheduled courses.
Grade Mode: Normal Grading Mode

SOC 481 Special Topics **1-4 Credit hours**
Study of topics of interest not covered in regularly scheduled courses. Study of topics of interest not covered in regularly scheduled courses.
Grade Mode: Normal Grading Mode

SOC 482 Special Topics **1-4 Credit hours**
Study of topics of interest not covered in regulary scheduled courses. Study of topics of interest not covered in regulary scheduled courses.
Grade Mode: Normal Grading Mode

SOC 483 Special Topics **1-4 Credit hours**
Study of topics of interest not covered in regularly scheduled courses. Study of topics of interest not covered in regularly scheduled courses.
Grade Mode: Normal Grading Mode

SOC 485 Independent Study **1-4 Credit hours**
Individual study of topics not offered in regularly scheduled courses. Advance permission required. Individual study of topics not offered in regularly scheduled courses. Advance permission required.
Grade Mode: Normal Grading Mode

SOC 486 Independent Study **1-4 Credit hours**
Individual study of topics not offered in regularly scheduled courses. Advance permission required. Individual study of topics not offered in regularly scheduled courses. Advance permission required.
Grade Mode: Normal Grading Mode

SOC 487 Independent Study **1-4 Credit hours**
Individual study of topics not offered in regularly scheduled courses. Advance permission required. Individual study of topics not offered in regularly scheduled courses. Advance permission required.
Grade Mode: Normal Grading Mode

SOC 488 Independent Study **1-4 Credit hours**
Individual study of topics not offered in regularly scheduled courses. Advance permission required. Individual study of topics not offered in regularly scheduled courses. Advance permission required.
Grade Mode: Normal Grading Mode

SOC 489 Internship **1-4 Credit hours**
Supervised practicum founded on sociological knowledge in a host institution. 40-45 hours of internship work correspond with 1 credit hour. Supervised practicum founded on sociological knowledge in a host institution. 40-45 hours of internship work correspond with 1 credit hour.
Grade Mode: Normal Grading Mode

SOC 492 Senior Seminar I **3 Credit hours**
Application of sociological theory and practice to individually designed projects. This course fulfills the capstone requirement for undergraduate majors. (PR: sociology major in senior standing or departmental permission)
Grade Mode: Normal Grading Mode

SOC 493 Senior Seminar II **3 Credit hours**
Application of sociological theory and practice to individually designed projects. Fulfills the capstone requirement for undergraduate majors. (PR: Anthrolpology major in senior standing or departmental permission)
Attributes: Capstone Course
Grade Mode: Normal Grading Mode

Faculty

Professors
Fondren, Hoey, Laubach, Riner

Associate Professors
Garnett, Sullivan

Assistant Professor
Noyongoyo

Anthropology, B.A.

- General Education Course

- Milestone course: a key success marker for your major. See your advisor to discuss the importance of this course in your plan of study.

Major

The Core Curriculum is designed to foster critical thinking skills and introduce students to basic domains of thinking that transcend disciplines. The Core applies to all majors. Information on specific classes in the Core can be found at https://www.marshall.edu/gened/.

Code	Title	Credit Hours
Core Curriculum		
Core 1: Critical Thinking		
FYS 100	First Yr Sem Critical Thinking	3
ANT 201	Cultural Anthropology (CT)	3
Core I Critical Thinking		
Core 2		
ENG 101	Beginning Composition	3
ENG 201	Advanced Composition	3
CMM 103	Fund Speech-Communication	3
Core II Math: MTH 121 or STA 150/STA 150L		3-4
Core II Natural/Physical Science		4
Core II Humanities		3
Core II Fine Arts		3
ANT 201	Cultural Anthropology (CT) (Core II Social Science)	3
Additional University Requirements		
ANT 201	Cultural Anthropology (CT) (Multicultural or International)	3
ANT 361	Ethnographic Research (WI)	3
ANT 491	Theory in Ethnology (WI)	3
ANT 493	Senior Seminar II (Capstone)	3
College-Specific		
Foreign Language 101		3
Foreign Language 102		3
Foreign Language 203		3
Foreign Language 204		3
COLA Literature		3
COLA Literature		3
300/400 Humanities		3
ANT COLA Social Science		3
COLA Social Science (not ANT)		3
COLA Social Science (not ANT)		3
COLA Natural/Physical Science		4
ANT 371	Linguistic Anthropology (International)	3
ANT 491	Theory in Ethnology (Multicultural)	3
Major-Specific		
ANT 201	Cultural Anthropology (CT) (I)	3
ANT 322	Archaeology	3
ANT 331	Physical Anthropology	3
ANT 361	Ethnographic Research	3
ANT 371	Linguistic Anthropology	3
ANT 491	Theory in Ethnology	3
ANT 492	Senior Seminar I	3
ANT 493	Senior Seminar II	3
ANT Elective		3
ANT Elective		3
ANT Elective		3
ANT Elective		3
ANT Elective		3
Free Elective		3
Free Elective		3

Free Elective	3
Free Elective	3
Free Elective	3
Free Elective	3
Free Elective	3
Free Elective	3

Major Information

- The total number of free electives will depend on the amount of double and triple counting of requirements.
- See course attributes each semester for courses that meet multiple requirements.
- Questions about requirements should be directed to the College of Liberal Arts (304-696-2350). Core II and COLA requirements may not be double counted.
- Forty-eight credit hours (sixteen 3-hour courses) must be at the 300/400 level.
- Students must earn a *C* or better in ENG 201 Advanced Composition and all foreign language courses.
- Minimum of 120 hours to graduate.
- ANT Electives: A minimum of 15 credits of electives must be chosen from classes with the ANT prefix. A student with a particular anthropological interest that can be best served by courses **without the ANT prefix** may suggest a coherent selection of up to 9 credits from such classes to be counted towards the major as electives. A plan for such a selection must be presented to and approved by the student's advisor and the department chair in the student's junior year or, for those students entering the program at the junior level, at a time stipulated by the chair.

Areas of Emphasis

- Anthropology of Health, Emphasis (p. 333)
- Archeological Anthropology, Emphasis (p. 333)
- Sociocultural Anthropology, Emphasis (p. 333)

- General Education Course

- Milestone course: a key success marker for your major. See your advisor to discuss the importance of this course in your plan of study.

Four Year Plan

From the Greek anthropos ("human") and logia ("study"), anthropology is the study of humankind. For anthropologists, there are few limits on the scope of our inquiry from distant human origins to present day. Our subject matter is both extraordinary (e.g., mortuary practices of the Toraja) and ordinary (anatomy of the human foot). Our focus can be sweeping (the development of language) and minute (use-wear patterns on a prehistoric obsidian tool). Anthropologists may study ancient Egyptian hieroglyphics, intravenous drug use in urban Appalachia, and corporate culture in a U.S. car manufacturer. Anthropology is, by its nature, interdisciplinary and international in both theory and practice. Students pursuing a Bachelors of Art in Anthropology receive foundational training that reflects the scope of the discipline and develop capstone projects that provide career-specific training.

Course	Title	Credit Hours
First Year		
First Semester		
ANT 201	Cultural Anthropology (CT)	3
CMM 103	Fund Speech-Communication	3
ENG 101	Beginning Composition	3
FYS 100	First Yr Sem Critical Thinking	3
Core II Fine Arts		3
UNI 100	Freshman First Class	1
	Credit Hours	**16**
Second Semester		
ENG 201	Advanced Composition	3
Core II Math: MTH 121 or STA 150/STA 150L		3 or 4
Core II Physical/Natural Science		4
COLA Social Science		3
COLA Literature		3
	Credit Hours	**16-17**
Second Year		
First Semester		
ANT 331	Physical Anthropology	3
ANT 371	Linguistic Anthropology	3
Foreign Language 101		3
COLA Literature		3
Free Elective		3
	Credit Hours	**15**
Second Semester		
ANT 322	Archaeology	3
Foreign Language 102		3
COLA Physical/Natural Science		4
Core II Humanities		3
Free Elective		3
	Credit Hours	**16**
Third Year		
First Semester		
ANT 361	Ethnographic Research	3
ANT Elective		3
Foreign Language 203		3
COLA Social Science		3
Free Elective		3
	Credit Hours	**15**
Second Semester		
ANT 491	Theory in Ethnology	3
ANT Elective		3
Foreign Language 204		3
COLA Humanities		3
Free Elective		3
	Credit Hours	**15**
Fourth Year		
First Semester		
ANT 492	Senior Seminar I	3
ANT Elective		3

ANT Elective		3
Free Elective		3
Free Elective		3
	Credit Hours	**15**
Second Semester		
ANT 493	Senior Seminar II	3
ANT Elective		3
Free Elective		3
Free Elective		3
	Credit Hours	**12**
	Total Credit Hours	**120-121**

Anthropology of Health, Emphasis

- General Education Course

- Milestone course: a key success marker for your major. See your advisor to discuss the importance of this course in your plan of study.

Major

Code	Title	Credit Hours
Introductory Course		
ANT 362	Health, Culture & Society	3
Ethnographic Research Methods Course		
ANT 361	Ethnographic Research	3
Theory Course in Sociocultural Anthropology		
ANT 467	Culture in Ethnographies	3
or ANT 491	Theory in Ethnology	
Electives		
Select two of the following (or as approved by the faculty in Anthropology):		6
ANT 464	Design, Planning & Health	
ANT 465	Disaster, Culture & Health	
ANT 466	Culture and Environment	
Select one spatial or quantitative data analysis course of the following (or as approved by the faculty in Anthropology):		3-4
ANT 402/ GEO 426	Principles of GIS	
ANT 301/ SOC 345	Social Statistics	
Total Credit Hours		**18-19**

Archeological Anthropology, Emphasis

- General Education Course

- Milestone course: a key success marker for your major. See your advisor to discuss the importance of this course in your plan of study.

Major

Code	Title	Credit Hours
Introductory Course		
ANT 322	Archaeology	3
Archaeological Research Methods Course		
ANT 323	Archaeolog Field Train	3-6
or ANT 324	Archaeological Analysis	
Theory Course in Archaeological Anthropology		
ANT 428	Arch Theory and Analysis	3
Electives		
Select three topical ANT courses from the 320s and 440s (or as approved by the faculty in Anthropology) other than those required in this Area of Emphasis.		9
Total Credit Hours		**18-21**

Sociocultural Anthropology, Emphasis

- General Education Course

- Milestone course: a key success marker for your major. See your advisor to discuss the importance of this course in your plan of study.

Major

Code	Title	Credit Hours
Introductory Course		
ANT 201	Cultural Anthropology (CT)	3
Ethnographic Research Methods Course		
ANT 361	Ethnographic Research	3
Theory Course in Sociocultural Anthropology		
ANT 491	Theory in Ethnology	3
Electives		**9**
Select three topical ANT courses from among those listed in the 350s, 360s, 450s, 460s, and 470s (or as approved by the faculty in Anthropology other than those required in this Area of Emphasis)		
Total Credit Hours		**18**

Anthropology, Minor

The undergraduate Minor in General Anthropology requires 12 credit-hours made of choices from two blocks of courses. From Block I, students are required to choose two courses (6 hours) from foundational, subdisciplinary courses. From Block II, students are required to choose any two ANT courses (6 hours) from either the 300 or 400 level that are not listed in Block I. General Anthropology is intended to provide flexibility to explore introductions to four major sub-disciplines of the field and freely sample related upper-level courses in a way that accommodates students with diverse majors ranging from pre-medicine, pre-law, geography, art history, computer science, engineering, business, environmental sciences, to social work.

Code	Title	Credit Hours
Block 1		
Select two of the following:		6
ANT 201	Cultural Anthropology (CT)	
ANT 322	Archaeology	
ANT 331	Physical Anthropology	
ANT 371	Linguistic Anthropology	
Block 2		
Select two ANT courses from either 300 or 400 level that are not listed in Block I [1]		6
Total Credit Hours		**12**

[1] Students should seek advice from the program and plan for Block II courses that build on choices made in Block I.

Sociology, Accelerated Master's Degree Program

Students who have completed at least 90 hours towards their bachelor's degrees, have at least a 3.5 overall undergraduate GPA, and a 3.5 GPA in Sociology are eligible to apply for our Accelerated Master's Degree program. Students accepted into the program can begin taking graduate coursework up to a maximum of 12 hours in place of elective undergraduate courses. Students reduce the number of hours required to complete the bachelor's degree by the number of graduate hours they complete (up to a maximum of 12). They must meet all the other degree requirements for their bachelor's degrees while they work on their master's degrees. Interested students are encouraged to discuss this option with their advisors to obtain further details and information on the application process.

Sociology, B.A.

- General Education Course

- Milestone course: a key success marker for your major. See your advisor to discuss the importance of this course in your plan of study.

Major

The Core Curriculum is designed to foster critical thinking skills and introduce students to basic domains of thinking that transcend disciplines. The Core applies to all majors. Information on specific classes in the Core can be found at https://www.marshall.edu/gened/.

Code	Title	Credit Hours
Core Curriculum		
Core 1: Critical Thinking		
FYS 100	First Yr Sem Critical Thinking	3
SOC 200	Introductory Sociology (CT)	3
Core I Critical Thinking		3
Core 2		
ENG 101	Beginning Composition	3
ENG 201	Advanced Composition	3
CMM 103	Fund Speech-Communication	3
Core II Math: MTH 121 course or STA 150/STA 150L		3-4
Core II Natural/Physical Science		4
Core II Humanities		3
SOC 200	Introductory Sociology (CT) (MC) (Core II Social Science)	3
Core II Fine Arts		3
Additional University Requirements		
Writing Intensive		3
Writing Intensive		3
SOC 200	Introductory Sociology (CT) (Multicultural/International)	3
SOC 493	Senior Seminar II (Capstone)	3
College-Specific		
Foreign Language 101		3
Foreign Language 102		3
Foreign Language 203		3
Foreign Language 204		3
COLA Literature		3
COLA Literature		3
COLA 300/400 Humanities		3
ANT 201	Cultural Anthropology (CT) (COLA Social Science)	3
SOC COLA Social Science		3
COLA Social Science (not SOC)		3
COLA Natural/Physical Science		4
ANT 201	Cultural Anthropology (CT) (COLA International)	3
COLA Multicultural		3
Major-Specific		
SOC 200	Introductory Sociology (CT)	3
SOC 344	Social Research I	3
SOC 345	Social Statistics I	3
SOC 360	Sociological Theory	3
SOC 492	Senior Seminar I	3
SOC 493	Senior Seminar II (Capstone)	3
SOC Restricted Elective		
Select two courses from one primary area, and one course from each of the remaining two areas from the following:		12
Social Institutions:		
SOC 300	Social Organization	
SOC 342	American Society	
SOC 362	Health, Culture and Society	
SOC 408	The Family	
SOC 420	Criminology	
SOC 433	Sociology of Work	
SOC 450	Sociology of Religion	
SOC 452	Soc of Death & Dying	
Social Identities and Inequalities:		
SOC 310	Individual and Society	
SOC 375	Social Stratification	
SOC 423	Social Class Power & Conflict	
SOC 425	Race and Ethnicity	
SOC 432	Sociology of Appalachia	
SOC 440	Intro to the Soc of Aging	

SOC 455	Sociology of Sex and Gender	
SOC 468	National Identity	
Social Issues:		
SOC 311	Deviance and Social Control	
SOC 313	Contemp Soc Issues and Prob	
SOC 330	Soc of Community Health	
SOC 401	Population & Human Ecology	
SOC 413	Social Movements & Soc Change	
SOC 442	Urban Sociology	
SOC 460	Holocaust and Genocide	
SOC 466	Culture and Environment	
SOC Elective		
Select three of the following:		9
SOC 403	Social Research II	
SOC 443	Evaluation and Survey Research	
SOC 470	Field Exper in Applied SOC	
SOC 480	Special Topics	
SOC 481	Special Topics	
SOC 482	Special Topics	
SOC 483	Special Topics	
SOC 485	Independent Study	
SOC 486	Independent Study	
SOC 487	Independent Study	
SOC 488	Independent Study	
SOC 489	Internship	
Free Elective		3
Free Elective		3
Free Elective		3
Free Elective		3
Free Elective		3
Free Elective		3
Free Elective		1

Major Information

- The total number of free electives will depend on the amount of double and triple counting of requirements.
- See course attributes each semester for courses that meet multiple requirements.
- Questions about requirements should be directed to the College of Liberal Arts (304-696-2350). Core II and COLA requirements may not be double counted.
- Forty-eight credit hours (sixteen 3-hour courses) must be at the 300/400 level.
- Students must earn a *C* or better in ENG 201 Advanced Composition and all foreign language courses.
- Minimum of 120 hours to graduate.

- General Education Course

- Milestone course: a key success marker for your major. See your advisor to discuss the importance of this course in your plan of study.

Four Year Plan

Sociology is the study of human societies. We ask basic questions like "why do humans do what we do" and "how does society work." Along the way we pick up essential human questions like: What does it mean when we say that we live in a socially constructed reality? What is the place of the individual in society? Do we have "free will," or are our personal actions determined by social forces? Is social life really what Thomas Hobbes called the "war of all against all"? Why do we have social order?

Course	Title	Credit Hours
First Year		
First Semester		
CMM 103	Fund Speech-Communication	3
ENG 101	Beginning Composition	3
FYS 100	First Yr Sem Critical Thinking	3
SOC 200	Introductory Sociology (CT) (MC) (Core II Social Science)	3
Core II Fine Arts		3
UNI 100	Freshman First Class	1
	Credit Hours	**16**
Second Semester		
ENG 201	Advanced Composition	3
Core II Math: MTH 121 course or STA 150 course /STA 150L		3 or 4
Core II Physical/Natural Science		4
ANT 201	Cultural Anthropology (CT) (COLA Social Sci/COLA International)	3
COLA Literature		3
	Credit Hours	**16-17**
Second Year		
First Semester		
SOC 344	Social Research I	3
SOC 360	Sociological Theory	3
Foreign Language 101		3
COLA Literature		3
Free Elective		3
	Credit Hours	**15**
Second Semester		
SOC 345	Social Statistics I	3
Writing Intensive		3
Foreign Language 102		3
COLA Physical/Natural Science		4
Core II Humanities		3
	Credit Hours	**16**
Third Year		
First Semester		
Writing Intensvie		3
SOC Restricted Elective		3
SOC Restricted Elective		3
COLA Soc Science: SOC Elective		3
Foreign Language 203		3
	Credit Hours	**15**
Second Semester		
SOC Restricted Elective		3
Foreign Language 204		3

COLA Social Science (MC)		3
COLA 300/400 Humanities		3
Free Elective		3
	Credit Hours	**15**
Fourth Year		
First Semester		
SOC 492	Senior Seminar I	3
SOC Restricted Elective		3
SOC Elective		3
Free Elective		3
Free Elective		3
	Credit Hours	**15**
Second Semester		
SOC 493	Senior Seminar II	3
SOC Elective		3
Free Elective		3
Free Elective		3
	Credit Hours	**12**
	Total Credit Hours	**120-121**

Sociology, Minor

A minor in Sociology requires at least 15 credits. As listed below, 9 of these credits constitute the core of the minor. The remainder of the required credits can be taken from any class with the prefix SOC. A maximum of 6 credits below 300 level can be counted towards the minor.

Code	Title	Credit Hours
SOC 200	Introductory Sociology (CT)	3
SOC 344	Social Research I	3
SOC 360	Sociological Theory	3
Select any two SOC classes [1]		6
Total Credit Hours		**15**

[1] A maximum of 6 credits below 300 level can be counted towards the minor.

Students majoring or minoring in Sociology are strongly encouraged to discuss with an advisor (in the department and/or in the office of the dean of the College of Liberal Arts) ways in which the requirements in the major/minor simultaneously cover parts of the general education requirements in the College of Liberal Arts and/or the Core Curriculum.

Humanities

Contacts: Dr. Del Chrol, Chair, chrol@marshall.edu;

Languages

Students can fulfill their foreign language requirement by taking twelve hours of Greek or Latin.

Opportunities

Degrees in Humanities and Latin offer the same variety of career opportunities as other Liberal Arts degrees. In general, they provide a broad base of knowledge and intellectual skills that enable individuals to be flexible and versatile in a constantly changing job environment. In particular these degrees provide:

a. a solid basis for professional training in law and medicine;
b. preparation for occupations connected with Classical Archaeology;
c. a basis for work in various government positions where there is a long tradition of hiring people with a classical background; and
d. preparation for occupations connected with education, which include teaching in public and private schools as well as at the college and university level.

Programs

- Classics, Minor (p. 347)
- General Humanities, Minor (p. 347)
- Greek, Minor (p. 347)
- Humanities, B.A. (p. 347)
- Latin, B.A. (p. 354)
- Latin, Minor (p. 355)
- Philosophy, Minor (p. 356)
- Religious Studies, Minor (p. 356)

Courses

- General Education Course

Classics

CL 200 Building English Vocab **3 Credit hours**
Study of Latin and Greek word elements to build skill in English vocabulary, both general and technical (or scientific-medical). Study of Latin and Greek word elements to build skill in English vocabulary, both general and technical (or scientific-medical).
Grade Mode: Normal Grading Mode

CL 210 Love/War Ancient World (CT) **3 Credit hours**
Taught in English, this course examines the themes of love and war in Greek and Roman poetry and prose. Taught in English, this course examines the themes of love and war in Greek and Roman poetry and prose.
Attributes: Critical Thinking, Core II Humanities
Grade Mode: Normal Grading Mode

CL 230 Greek & Roman Epic **3 Credit hours**
Introduction to the genre of ancient epic through reading Homer's Iliad and Odyssey and Vergil's Aeneid (or other ancient epics). Introduction to the genre of ancient epic through reading Homer's Iliad and Odyssey and Vergil's Aeneid (or other ancient epics).
Pre-req: ENG 101 with a minimum grade of C or YGS 161 with a minimum grade of C or ENG 101P with a minimum grade of C or ENG 200H with a minimum grade of C or ENG 201H with a minimum grade of C or ENG 200 with a minimum grade of C.
Attributes: Core II Humanities, Literature, Multicultural
Grade Mode: Normal Grading Mode

CL 231 Women in Greek & Roman Lit **3 Credit hours**
Taught in English, a thematic study of women in Greek and Roman literature focusing on how a culture's attitudes towards women reflect social, political or ethnic concerns.
Pre-req: ENG 200H with a minimum grade of C or ENG 201H with a minimum grade of C or ENG 201 with a minimum grade of C.
Attributes: Core II Humanities, Literature, Multicultural
Grade Mode: Normal Grading Mode

CL 232 Greek & Roman Drama (CT) **3 Credit hours**
Introduction to Greek and Roman dramatic genres of tragedy and comedy using selected plays of Aeschylus, Sophocles, Euripides, Aristophanes, Seneca, Plautus, and Terence. Introduction to Greek and Roman dramatic genres of tragedy and comedy using selected plays of Aeschylus, Sophocles, Euripides, Aristophanes, Seneca, Plautus, and Terence.
Pre-req: ENG 101 with a minimum grade of C or YGS 161 with a minimum grade of C or ENG 101P with a minimum grade of C.
Attributes: Critical Thinking, Core II Humanities, Literature, Multicultural
Grade Mode: Normal Grading Mode

CL 233 Greek & Roman Historians (CT) **3 Credit hours**
Thematic study of Greek and Roman historiography by topic as much as by historian, including ancient rehtorical sources on the theory of history. Thematic study of Greek and Roman historiography by topic as much as by historian, including ancient rehtorical sources on the theory of history.
Pre-req: ENG 101 or YGS 161.
Attributes: Critical Thinking, Core II Humanities, Literature, Multicultural
Grade Mode: Normal Grading Mode

CL 234 Greek & Roman Poetry (CT) **3 Credit hours**
Taught in English, this course examines three periods of Greek and Roman poetry: the Archaic and Hellenistic Ages of Greece and the Golden Age of Rome. Taught in English, this course examines three periods of Greek and Roman poetry: the Archaic and Hellenistic Ages of Greece and the Golden Age of Rome.
Attributes: Critical Thinking, Core II Humanities, Literature, Multicultural
Grade Mode: Normal Grading Mode

CL 236 Murder in Ancient World (CT) **3 Credit hours**
Taught in English, this is a tehmatic study of the topic of murder as it appears in the genres of tragedy, oratory and history.
Pre-req: ENG 101 or YGS 161 or ENG 101E or ENG 201H or IST 101 or ENG 101P.
Attributes: Critical Thinking, Core II Humanities, Literature, Multicultural
Grade Mode: Normal Grading Mode

CL 237 Lit in the Time of Nero (CT) **3 Credit hours**
Taught in English this course examines the literature of the first century, CE, and includes the writings of Lucan, Petronius, Seneca, Martial, Juvenal and Tacitus. Taught in English this course examines the literature of the first century, CE, and includes the writings of Lucan, Petronius, Seneca, Martial, Juvenal and Tacitus.
Pre-req: ENG 101 with a minimum grade of D or ENG 101P with a minimum grade of D or ENG 200H with a minimum grade of D or ENG 201H with a minimum grade of D.
Attributes: Critical Thinking, Core II Humanities, Literature, Multicultural
Grade Mode: Normal Grading Mode

CL 250 Humanities and Film (CT) **3 Credit hours**
An interdisciplinary course to introduce students to the elements of a humanistic education through study of film. (Same as Philosophy 250 and Religious Studies 250; PR or CR: ENG 101)
Pre-req: ENG 101 (may be taken concurrently) with a minimum grade of C or ENG 200H (may be taken concurrently) with a minimum grade of C or ENG 201H (may be taken concurrently) with a minimum grade of C or ENG 101P (may be taken concurrently) with a minimum grade of C.
Concurrent PR: ENG 101 or ENG 200H or ENG 201H or ENG 101P
Attributes: Critical Thinking, Core II Humanities, Literature, Multicultural
Grade Mode: Normal Grading Mode

CL 280 Special Topics **1-4 Credit hours**
Selected topics not covered in regular course offerings. Selected topics not covered in regular course offerings.
Grade Mode: Normal Grading Mode

CL 281 Special Topics **1-4 Credit hours**
Selected topics not covered in regular course offerings. Selected topics not covered in regular course offerings.
Grade Mode: Normal Grading Mode

CL 282 Special Topics **1-4 Credit hours**
Selected topics not covered in regular course offerings. Selected topics not covered in regular course offerings.
Grade Mode: Normal Grading Mode

CL 283 Special Topics **1-4 Credit hours**
Selected topics not covered in regular course offerings. Selected topics not covered in regular course offerings.
Grade Mode: Normal Grading Mode

CL 319 Classical Mythology **3 Credit hours**
Study of the development of myth in ancient Greece and Rome; its place in ancient culture and its survival in the modern world. Study of the development of myth in ancient Greece and Rome; its place in ancient culture and its survival in the modern world.
Pre-req: ENG 101 with a minimum grade of C or YGS 161 with a minimum grade of C or ENG 101P with a minimum grade of C.
Attributes: Multicultural
Grade Mode: Normal Grading Mode

CL 320 Anc Grk Love & Friendship **3 Credit hours**
A literary survey of ancient Greco-Roman love and friendship as shaped by family, marriage, religion, philosophy and politics. Ancient and modern texts read.
Pre-req: ENG 101 or YGS 161.
Grade Mode: Normal Grading Mode

CL 326 Classical Archaeology **3 Credit hours**
Archaeology of ancient Greece and Rome, and their colonies and their imperial domains. Same as ANT 370. Archaeology of ancient Greece and Rome, and their colonies and their imperial domains. Same as ANT 370.
Grade Mode: Normal Grading Mode

CL 390 Junior Seminar in Humanities **3 Credit hours**
A structured interdisciplinary study offered by the departments of Classics, Philosophy, and Religious Studies in the foundations of human thought, myth, literature, religion, philosophy, art. (Same as Philosophy 390-394 and Religious Studies 390-394)
Pre-req: ENG 201 with a minimum grade of C or ENG 201H with a minimum grade of C or YGS 162 with a minimum grade of C or IST 201 with a minimum grade of D or CL 231 with a minimum grade of D or CL 232 with a minimum grade of D or CL 233 with a minimum grade of D or PHL 200 with a minimum grade of D or PHL 201 with a minimum grade of D or PHL 303 with a minimum grade of D or PHL 321 with a minimum grade of D or PHL 340 with a minimum grade of D or PHL 353 with a minimum grade of D or RST 205 with a minimum grade of D or RST 206 with a minimum grade of D or RST 300 with a minimum grade of D or RST 304 with a minimum grade of D or RST 320 with a minimum grade of D or RST 325 with a minimum grade of D.
Grade Mode: Normal Grading Mode

CL 391 Junior Seminar in Humanities **3 Credit hours**
A structured interdisciplinary study offered by the departments of Classics, Philosophy, and Religious Studies in the foundations of human thought, myth, literature, religion, philosophy, art. (Same as Philosophy 390 - 394 and Religious Studies 390 - 394)
Pre-req: ENG 102 or ENG 302 or ENG 201H or YGS 162 or IST 201 or CL 231 or CL 232 or CL 233 or CL 319 or PHL 200 or PHL 201 or PHL 303 or PHL 321 or PHL 340 or PHL 353 or RST 205 or RST 206 or RST 300 or RST 304 or RST 320 or RST 325 or ENG 201.
Grade Mode: Normal Grading Mode

CL 392 Junior Seminar **3 Credit hours**
A structured interdisciplinary study offered by the department of Classics, Philosophy, and Religious Studies in the foundations of human thought, myth, literature, regligion, philosophy, art. (Same as Philosophy 390 - 394 and Religious Studies 390 - 394)
Pre-req: ENG 102 or ENG 302 or ENG 201H or YGS 162 or IST 201 or CL 231 or CL 232 or CL 233 or CL 319 or PHL 200 or PHL 201 or PHL 303 or PHL 321 or PHL 340 or PHL 353 or RST 205 or RST 206 or RST 300 or RST 304 or RST 320 or RST 325 or ENG 201.
Grade Mode: Normal Grading Mode

CL 393 Junior Seminar in Humanities **3 Credit hours**
A structured interdisciplinary study offered by the departments of Classics, Philosophy, and Religious Studies in the foundations of human thought, myth, literature, religion, philosophy, art. (Same as Philosophy 390 - 394 and Religious Studies 390 - 394)
Pre-req: ENG 102 with a minimum grade of D or ENG 302 with a minimum grade of D or ENG 201H with a minimum grade of D or YGS 162 with a minimum grade of D or IST 201 with a minimum grade of D or CL 231 with a minimum grade of D or CL 232 with a minimum grade of D or CL 233 with a minimum grade of D or CL 319 with a minimum grade of D or PHL 200 with a minimum grade of D or PHL 201 with a minimum grade of D or PHL 303 with a minimum grade of D or PHL 321 with a minimum grade of D or PHL 340 with a minimum grade of D or PHL 353 with a minimum grade of D or RST 205 with a minimum grade of D or RST 206 with a minimum grade of D or RST 300 with a minimum grade of D or RST 304 with a minimum grade of D or RST 320 with a minimum grade of D or RST 325 with a minimum grade of D or ENG 201 with a minimum grade of D.
Grade Mode: Normal Grading Mode

CL 394 Junior Seminar in Humantities **3 Credit hours**
A structured interdisciplinary study offered by the departments of Classics, Philosophy, and Religious Studies in the foundations of human thought, myth, literature, religion, philosophy, art. (Same as Philosophy 390 - 394 and Religious Studies 390 - 394)
Pre-req: ENG 102 or ENG 302 or ENG 201H or YGS 162 or IST 201 or CL 231 or CL 232 or CL 233 or CL 319 or PHL 200 or PHL 201 or PHL 303 or PHL 321 or PHL 340 or PHL 353 or RST 205 or RST 206 or RST 300 or RST 304 or RST 320 or RST 325 or ENG 201.
Grade Mode: Normal Grading Mode

CL 435 Greek Civilization **3 Credit hours**
Study of ancient Greek culture, emphasizing parallels with present-day issues. Study of ancient Greek culture, emphasizing parallels with present-day issues.
Pre-req: ENG 101 or YGS 161.
Grade Mode: Normal Grading Mode

CL 436 Roman Civilization **3 Credit hours**
Study of ancient Roman culture, emphasizing parallels with present-day issues. Study of ancient Roman culture, emphasizing parallels with present-day issues.
Pre-req: ENG 101 or YGS 161.
Grade Mode: Normal Grading Mode

CL 460 Ancient Goddess Religions **3 Credit hours**
Study of the mythology and cults of the goddesses of Greece, Grete, Asia Minor, Crete and Rome, with a view to discovering cultural contexts. Study of the mythology and cults of the goddesses of Greece, Grete, Asia Minor, Crete and Rome, with a view to discovering cultural contexts.
Grade Mode: Normal Grading Mode

CL 470 Transformations of Myth **3 Credit hours**
An examination of how ancient myth transforms into the psychological and fictional works of more modern times. An examination of how ancient myth transforms into the psychological and fictional works of more modern times.
Grade Mode: Normal Grading Mode

CL 471 Ancient Sexuality **3 Credit hours**
A comprehensive study of current theories about Greek and/or Roman sexualities and evaluation of the evidence, textual and otherwise, to which these theories apply.
Pre-req: ENG 102 or ENG 302 or ENG 201H or ENG 201.
Grade Mode: Normal Grading Mode

CL 472 Rhetoric of Seduction **3 Credit hours**
Taught in English, this course investigates the overlap of public and private persuasion through reading philosophical, political and romantic works, and analyzing contemporary campaigns. Taught in English, this course investigates the overlap of public and private persuasion through reading philosophical, political and romantic works, and analyzing contemporary campaigns.
Grade Mode: Normal Grading Mode

CL 473 Body, Sex and Violence in Rome **3 Credit hours**
This course explores the gross violation of the boundaries of the Roman body sexually, politically and socially, and how the symbolizes a breakdown of identity, personally and nationally.
Pre-req: ENG 101 with a minimum grade of C or ENG 101P with a minimum grade of C or ENG 200H with a minimum grade of C or ENG 201H with a minimum grade of C or ENG 201 with a minimum grade of C.
Grade Mode: Normal Grading Mode

CL 475 Roman Law **3 Credit hours**
Taught in English, this course provides an introduction to basic tenets of Roman law with particular attention to court cases and speeches. Taught in English, this course provides an introduction to basic tenets of Roman law with particular attention to court cases and speeches.
Grade Mode: Normal Grading Mode

CL 476 Rome: The Eternal City **6 Credit hours**
On-site study of the archaeology and material culture of ancient Rome in its social, literary and historical context. Taught in English in Rome, Italy. (Students fund their own travel)
Pre-req: ENG 101 or ENG 101P or ENG 160 or ENG 200H and CL 436.
Grade Mode: Normal Grading Mode

CL 477 RTTP: Greece and Rome **3 Credit hours**
Reacting to the Past: Greece and Rome is a semester long game/simulation where students play historical characters in Athens in 403BC then in Rome just after Julius Caesar's assassination.
Pre-req: (ENG 101 with a minimum grade of D or ENG 101P with a minimum grade of D or ENG 200H with a minimum grade of D or ENG 201H with a minimum grade of D) and CMM 103 with a minimum grade of D.
Grade Mode: Normal Grading Mode

CL 480 Special Topics **1-4 Credit hours**
Topics like "Values in Ancient Greece/Rome" or "The Cult of the Leader in Ancient Greece/Rome" have recently been offered. Consult chairman for current offerings. Topics like "Values in Ancient Greece/Rome" or "The Cult of the Leader in Ancient Greece/Rome" have recently been offered. Consult chairman for current offerings.
Pre-req: ENG 101 or YGS 161.
Grade Mode: Normal Grading Mode

CL 481 Special Topics **1-4 Credit hours**
Topics like"Values in Ancient Greece/Rome" or "The Cult of the Leader in Ancient Greece/Rome" have recently been offered. Consult chairman for current offerings. Topics like"Values in Ancient Greece/Rome" or "The Cult of the Leader in Ancient Greece/Rome" have recently been offered. Consult chairman for current offerings.
Pre-req: ENG 101 or YGS 161.
Grade Mode: Normal Grading Mode

CL 482 Special Topics **1-4 Credit hours**
Pre-req: ENG 101 or YGS 161.
Grade Mode: Normal Grading Mode

CL 483 Special Topics **1-4 Credit hours**
Topics like "Values in Ancient Greece/Rome" or "The Cult of the Leader in Ancient Greece/Rome" have recently been offered. Consult chairman for current offerings. Topics like "Values in Ancient Greece/Rome" or "The Cult of the Leader in Ancient Greece/Rome" have recently been offered. Consult chairman for current offerings.
Pre-req: ENG 101 or YGS 161.
Grade Mode: Normal Grading Mode

CL 485 Independent Study **1-4 Credit hours**
Grade Mode: Normal Grading Mode

CL 486 Independent Study **1-4 Credit hours**
Grade Mode: Normal Grading Mode

CL 487 Independent Study **1-4 Credit hours**
Grade Mode: Normal Grading Mode

CL 488 Independent Study **1-4 Credit hours**
Grade Mode: Normal Grading Mode

CL 490 Senior Seminar in Humanities **3 Credit hours**
Designed for majors as a senior humanities seminar and the culminating interdisciplinary study in the Humanities program. (Same as Philosophy 490 -494 and Religious Studies 490 - 494)
Pre-req: ENG 102 with a minimum grade of D or ENG 302 with a minimum grade of D or ENG 201H with a minimum grade of D or YGS 162 with a minimum grade of D or IST 201 with a minimum grade of D or CL 231 with a minimum grade of D or CL 232 with a minimum grade of D or CL 233 with a minimum grade of D or CL 319 with a minimum grade of D or PHL 200 with a minimum grade of D or PHL 201 with a minimum grade of D or PHL 303 with a minimum grade of D or PHL 321 with a minimum grade of D or PHL 340 with a minimum grade of D or PHL 353 with a minimum grade of D or RST 205 with a minimum grade of D or RST 206 with a minimum grade of D or RST 300 with a minimum grade of D or RST 304 with a minimum grade of D or RST 320 with a minimum grade of D or RST 325 with a minimum grade of D or ENG 201 with a minimum grade of D.
Grade Mode: Normal Grading Mode

CL 492 Senior Seminar in Humanities **3 Credit hours**
Designed for majors as a senior humanities seminar and the culminating interdisciplinary study in the Humanities program. (Same as Philosophy 490 -494 and Religious Studies 490 -494)
Pre-req: ENG 102 or ENG 302 or ENG 201H or YGS 162 or IST 201 or CL 231 or CL 232 or CL 233 or CL 319 or PHL 200 or PHL 201 or PHL 303 or PHL 321 or PHL 340 or PHL 353 or RST 205 or RST 206 or RST 300 or RST 304 or RST 320 or RST 325 or ENG 201.
Grade Mode: Normal Grading Mode

CL 493 Senior Seminar in Humanities **3 Credit hours**
Designed for majors as a senior humanities seminar and the culminating interdisciplinary study in the Humanities program. (Same as Philosophy 490 -494 and Religious Studies 490 -494)
Pre-req: ENG 102 or ENG 302 or ENG 201H or YGS 162 or IST 201 or CL 231 or CL 232 or CL 233 or CL 319 or PHL 200 or PHL 201 or PHL 303 or PHL 321 or PHL 340 or PHL 353 or RST 205 or RST 206 or RST 300 or RST 304 or RST 320 or RST 325 or ENG 201.
Grade Mode: Normal Grading Mode

CL 494 Senior Seminar in Humanities **3 Credit hours**
Designed for majors as a senior humanities seminar and the culminating interdisciplinary study inthe Humanities program. (Same as Philosophy 490 -494 and Religious Studies 490 - 494)
Pre-req: ENG 102 or ENG 302 or ENG 201H or YGS 162 or IST 201 or CL 231 or CL 232 or CL 233 or CL 319 or PHL 200 or PHL 201 or PHL 303 or PHL 321 or PHL 340 or PHL 353 or RST 205 or RST 206 or RST 300 or RST 304 or RST 320 or RST 325 or ENG 201.
Grade Mode: Normal Grading Mode

Greek

GRK 150 Intro Anc Greek (Consortium) **4 Credit hours**
Introduction to the language of Ancient Greece. Part 1 of a three course grammar sequence. (Taught through MU/OU Consortium delivery)
Grade Mode: Normal Grading Mode

GRK 151 Intro Anc Greek 2 **4 Credit hours**
Introduction to the language of Ancient Greece. Part two of a three course grammar sequence. (Taught through MU/OU Consortium Delivery)
Pre-req: GRK 150 with a minimum grade of D.
Grade Mode: Normal Grading Mode

GRK 201 Ancient Greek First Year **3 Credit hours**
Grade Mode: Normal Grading Mode

GRK 202 Ancient Greek First Year **3 Credit hours**
Pre-req: GRK 201.
Grade Mode: Normal Grading Mode

GRK 250 Intro Anc Greek 3 **3 Credit hours**
Introduction to the language of Ancient Greece. Part three of a three course grammar sequence. (Taught through MU/OU Consortium Delivery)
Pre-req: GRK 151 with a minimum grade of D.
Grade Mode: Normal Grading Mode

GRK 251 Intermed Greek 1 **3 Credit hours**
Intermediate Ancient Greek familiarizes you with translating continuous original texts from the ancient world. (Taught through MU/OU Consortium Delivery)
Pre-req: GRK 250 with a minimum grade of D.
Grade Mode: Normal Grading Mode

GRK 301 Anc Intermed Greek **3 Credit hours**
Varied readings including selections form Homer's Iliad, Dialogues of Plato and the New Testament. Varied readings including selections form Homer's Iliad, Dialogues of Plato and the New Testament.
Pre-req: GRK 202.
Grade Mode: Normal Grading Mode

GRK 302 Anc Intermed Greek **3 Credit hours**
Pre-req: GRK 301.
Attributes: Foreign Language
Grade Mode: Normal Grading Mode

GRK 350 Intermed Greek 2 **3 Credit hours**
Intermediate Ancient Greek familiarizes you with translating continuous original texts from the ancient world. (Taught through MU/OU Consortium Delivery)
Pre-req: GRK 251 with a minimum grade of D.
Grade Mode: Normal Grading Mode

GRK 480 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

GRK 485 Independent Study **1-4 Credit hours**
Pre-req: GRK 302.
Grade Mode: Normal Grading Mode

GRK 486 Independent Study **1-4 Credit hours**
Pre-req: GRK 302.
Grade Mode: Normal Grading Mode

GRK 487 Independent Study **1-4 Credit hours**
Pre-req: GRK 302.
Grade Mode: Normal Grading Mode

GRK 488 Independent Study **1-4 Credit hours**
Pre-req: GRK 302.
Grade Mode: Normal Grading Mode

Latin

LAT 101 First Year Latin **3 Credit hours**
Grade Mode: Normal Grading Mode

LAT 102 First Year Latin **3 Credit hours**
Pre-req: LAT 101 with a minimum grade of D.
Grade Mode: Normal Grading Mode

LAT 203 Intermediate Latin **3 Credit hours**
Varied readings including selections from Cicero's Orations and Vergil's Aeneid I-VI. Varied readings including selections from Cicero's Orations and Vergil's Aeneid I-VI.
Pre-req: LAT 102.
Grade Mode: Normal Grading Mode

LAT 204 Intermediate Latin **3 Credit hours**
Varied readings including selections from Cicero's Orations and Vergil's Aeneid I-VI. Varied readings including selections from Cicero's Orations and Vergil's Aeneid I-VI.
Pre-req: LAT 203 with a minimum grade of D.
Attributes: Foreign Language
Grade Mode: Normal Grading Mode

LAT 250 Conversational Latin I **1 Credit hour**
Introduction to basic skills of oral comprehension, composition and pronunciation of Latin.
Pre-req: LAT 101 with a minimum grade of D.
Grade Mode: Normal Grading Mode

LAT 251 Conversational Latin II **1 Credit hour**
Introduction to basic skills of oral comprehension, composition and pronunciation of Latin.
Pre-req: LAT 101.
Grade Mode: Normal Grading Mode

LAT 252 Conversational Latin III **1 Credit hour**
Introduction to basic skills of oral comprehension, composition, and pronunciation of Latin.
Grade Mode: Normal Grading Mode

LAT 280 Special Topics **1-4 Credit hours**
Pre-req: LAT 204.
Grade Mode: Normal Grading Mode

LAT 281 Special Topics **1-4 Credit hours**
Pre-req: LAT 204.
Grade Mode: Normal Grading Mode

LAT 282 Special Topics **1-4 Credit hours**
Pre-req: LAT 204.
Grade Mode: Normal Grading Mode

LAT 283 Special Topics **1-4 Credit hours**
Pre-req: LAT 204.
Grade Mode: Normal Grading Mode

LAT 308 Catullus **3 Credit hours**
A close reading in Latin of the poetry of Catullus with consideration of its literary antecedents and its importance to Roman Literature.
Pre-req: LAT 204.
Attributes: Literature
Grade Mode: Normal Grading Mode

LAT 311 Readings in Ovid **3 Credit hours**
Close reading in Latin of selections from Ovid's erotic and epic poetry.
Pre-req: LAT 204 with a minimum grade of D.
Attributes: Literature
Grade Mode: Normal Grading Mode

LAT 315 Sallust and Nepos **3 Credit hours**
A close reading in Latin of selected works from Sallust and Nepos.
Pre-req: LAT 204.
Grade Mode: Normal Grading Mode

LAT 323 Latin Prose Comp: Tacitus **1 Credit hour**
Study of Latin Prose Composition, the translation of English to Latin, with special reference to the style, syntax and vocabulary of Tacitus.
Grade Mode: Normal Grading Mode

LAT 403 Roman Comedy **3 Credit hours**
Pre-req: LAT 204.
Attributes: Literature
Grade Mode: Normal Grading Mode

LAT 404 Roman Elegy: Prop & Tib **3 Credit hours**
Close readings in Latin of selections from the elegies of Propertius and Tibullus.
Pre-req: LAT 204.
Attributes: Literature
Grade Mode: Normal Grading Mode

LAT 406 Horace: Odes, Epodes, Epistles **3 Credit hours**
Attributes: Literature
Grade Mode: Normal Grading Mode

LAT 407 Livy's History of Rome **3 Credit hours**
Attributes: Literature
Grade Mode: Normal Grading Mode

LAT 408 Roman Epistolary Lit **3 Credit hours**
A unique look at Roman life, public and private, through a close reading in Latin of the correspondence of Cicero, Seneca the Elder, and Pliny the Younger. Younger. A unique look at Roman life, public and private, through a close reading in Latin of the correspondence of Cicero, Seneca the Elder, and Pliny the Younger. Younger.
Pre-req: LAT 204.
Attributes: Literature
Grade Mode: Normal Grading Mode

LAT 409 Roman Satire **3 Credit hours**
Close readings in Latin of selections from the satires of Horace and Juvenal and the epigrams of Martial.
Pre-req: LAT 204.
Attributes: Literature
Grade Mode: Normal Grading Mode

LAT 410 Tacitus: Annals Agricola **3 Credit hours**
A close reading in Latin of selections from the works of Tacitus.
Pre-req: LAT 204.
Attributes: Literature
Grade Mode: Normal Grading Mode

LAT 411 Latin Prose Comp: Survey **3 Credit hours**
Study of Latin Prose Composition, the translation of English into Latin, with special reference to the style, syntax and vocabulary of the 1st c BCE.
Pre-req: LAT 205.
Grade Mode: Normal Grading Mode

LAT 480 Special Topics **1-4 Credit hours**
Pre-req: LAT 204.
Grade Mode: Normal Grading Mode

LAT 481 Special Topics **1-4 Credit hours**
Pre-req: LAT 204.
Grade Mode: Normal Grading Mode

LAT 482 Special Topics **1-4 Credit hours**
Pre-req: LAT 204.
Grade Mode: Normal Grading Mode

LAT 483 Special Topics **1-4 Credit hours**
Pre-req: LAT 204.
Grade Mode: Normal Grading Mode

LAT 485 Independent Study **1-4 Credit hours**
Non-Latin majors may enroll in Latin Independent Study courses for one hour credit to meet general requirements in literature. For such students instruction and readings will be entirely in English. Consult chairman for current offerings. Non-Latin majors may enroll in Latin Independent Study courses for one hour credit to meet general requirements in literature. For such students instruction and readings will be entirely in English. Consult chairman for current offerings.
Pre-req: LAT 204.
Grade Mode: Normal Grading Mode

LAT 486 Independent Study **1-4 Credit hours**
Non-Latin majors may enroll in Latin Independent Study courses for one hour credit to meet general requirements in literature. For such students instruction and readings will be entirely in English. Consult chariman for current offerings. Non-Latin majors may enroll in Latin Independent Study courses for one hour credit to meet general requirements in literature. For such students instruction and readings will be entirely in English. Consult chariman for current offerings.
Pre-req: LAT 204.
Grade Mode: Normal Grading Mode

LAT 487 Independent Study **1-4 Credit hours**
Non-Latin majors may enroll in Latin Independent Study courses for one hour credit to meet general requirements in literature. For such students instruction and readings will be entirely in English. Consult chairman for current offerings. Non-Latin majors may enroll in Latin Independent Study courses for one hour credit to meet general requirements in literature. For such students instruction and readings will be entirely in English. Consult chairman for current offerings.
Pre-req: LAT 204.
Grade Mode: Normal Grading Mode

LAT 488 Independent Study **1-4 Credit hours**
Non-Latin majors may enroll in Latin Independent Study courses for one hour credit to meet general requirements in literature. For such students instruction and readings will be entirely in English. Consult chairman for current offerings. Non-Latin majors may enroll in Latin Independent Study courses for one hour credit to meet general requirements in literature. For such students instruction and readings will be entirely in English. Consult chairman for current offerings.
Pre-req: LAT 204.
Grade Mode: Normal Grading Mode

LAT 499 Latin Capstone Experience **3 Credit hours**
Senior Project. Working with a project director, students will develop a paper written in an advanced Latin course into an expanded version that incorporates primary and secondary sources.(PR: 15 hours above LAT 204)
Attributes: Capstone Course
Grade Mode: Normal Grading Mode

Philosophy

PHL 200 Intro Phil Ancient Period (CT) **3 Credit hours**
The origins of philosophical activity among the Greeks by means of a selective sounding of several major thinkers. The origins of philosophical activity among the Greeks by means of a selective sounding of several major thinkers.
Attributes: Critical Thinking, Core II Humanities, Multicultural
Grade Mode: Normal Grading Mode

PHL 200H Intro Phil Ancient-Honors (CT) **3 Credit hours**
A detailed consideration of selected texts from Ancient philosophy, such as the pre-Socratics, Plato, Aristotle, the Stoics, the Epicureans, the Academic Skeptics, and the neo-Platonists. A detailed consideration of selected texts from Ancient philosophy, such as the pre-Socratics, Plato, Aristotle, the Stoics, the Epicureans, the Academic Skeptics, and the neo-Platonists.
Pre-req: ACT Composite with a score of 26 or SAT Verbal Before March 16 with a score of 600.
Attributes: Critical Thinking, Core II Humanities, Multicultural
Grade Mode: Normal Grading Mode

PHL 201 Intro Phil Modern Period (CT) **3 Credit hours**
Questions and answers concerning the nature of existence and human values and how we come to know them. Questions and answers concerning the nature of existence and human values and how we come to know them.
Attributes: Critical Thinking, Core II Humanities, Multicultural
Grade Mode: Normal Grading Mode

PHL 202 Ethics of Health Care (CT) **3 Credit hours**
A basic introduction to ethical theory, followed by an application of this theory to problems in health care. For students in health care professions and those interested in applied ethics.
Attributes: Critical Thinking, Multicultural
Grade Mode: Normal Grading Mode

PHL 203 Philosophy & Human Exist (CT) **3 Credit hours**
An introduction to philosophy drawing from both ancient and modern thinkers and texts.
Attributes: Critical Thinking, Core II Humanities, Multicultural
Grade Mode: Normal Grading Mode

PHL 215 Managing Life **3 Credit hours**
Philosophical approaches to dealing with life's deep challenges and difficult moments, with the help of some of the great classics of world thought.
Attributes: Critical Thinking, Core II Humanities, Multicultural
Grade Mode: Normal Grading Mode

PHL 250 Humanities and Film (CT) **3 Credit hours**
An interdisciplinary course to introduce students to the elements of a humanistic education through study of film. (Same as Classics 250 and Religious Studies 250; PR or CR: ENG 101)
Pre-req: ENG 101 with a minimum grade of C or ENG 200H (may be taken concurrently) or ENG 201H (may be taken concurrently) or ENG 101P (may be taken concurrently).
Concurrent PR: ENG 101 or ENG 200H or ENG 201H or ENG 101P
Attributes: Critical Thinking, Core II Humanities, Multicultural
Grade Mode: Normal Grading Mode

PHL 270 Intro to Formal Logic (CT) **3 Credit hours**
Introduction to three standard systems of formal logic: traditional categorical syllogistic logic, sentential logic, and first-order predicate logic.
Attributes: Critical Thinking
Grade Mode: Normal Grading Mode

PHL 280 Special Topics **1-4 Credit hours**
Group or individual study of areas demanding further study of a more specialized depth. Group or individual study of areas demanding further study of a more specialized depth.
Grade Mode: Normal Grading Mode

PHL 281 Special Topics **1-4 Credit hours**
Group or individual study of areas demanding further study of a more specialized depth. Group or individual study of areas demanding further study of a more specialized depth.
Grade Mode: Normal Grading Mode

PHL 282 Special Topics **1-4 Credit hours**
Group or individual study of areas demanding further study of a more specialized depth. Group or individual study of areas demanding further study of a more specialized depth.
Grade Mode: Normal Grading Mode

PHL 283 Special Topics **1-4 Credit hours**
Group or individual study of areas demanding further study of a more specialized depth. Group or individual study of areas demanding further study of a more specialized depth.
Grade Mode: Normal Grading Mode

PHL 301 Plato's Republic **3 Credit hours**
A deconstruction of the major time-worn prejudices and presuppositions of Platonism by way of a radical reading of Plato's great dialogue the REPUBLIC.
Grade Mode: Normal Grading Mode

PHL 302 Applied Ethics **3 Credit hours**
The application of basic ethical theories to contemporary moral issues drawn from such fields as medicine, business and the environment.
Grade Mode: Normal Grading Mode

PHL 303 Ethics **3 Credit hours**
A critical study of diverse moral norms, ideals and systems in theory and practice. A critical study of diverse moral norms, ideals and systems in theory and practice.
Grade Mode: Normal Grading Mode

PHL 304 Logic & Interpretation **3 Credit hours**
Theory and practice of valid principles of thinking including developing the skills of justifying diverse types of belief and evaluating reasons for conflicting standpoints (for example, racial, gender, and ethnic differences). Theory and practice of valid principles of thinking including developing the skills of justifying diverse types of belief and evaluating reasons for conflicting stand- points (for example, racial, gender, and ethnic dif- ferences).
Grade Mode: Normal Grading Mode

PHL 306 Philosophy of Art **3 Credit hours**
Examination of the qualities involved in the appreciation of beauty which serve as standards of taste. Examination of the qualities involved in the appreciation of beauty which serve as standards of taste.
Attributes: Multicultural
Grade Mode: Normal Grading Mode

PHL 315 American Philosophy **3 Credit hours**
Great American thinkers, including thinkers such as Emerson (transcendentalism), Peirce, James, Dewey, and Rorty (pragmatism), Royce (idealism), Quine (analytic philosophy), and de Man (post-structuralism). Great American thinkers, including thinkers such as Emerson (transcendentalism), Peirce, James, Dewey, and Rorty (pragmatism), Royce (idealism), Quine (analytic philosophy), and de Man (post-structuralism).
Grade Mode: Normal Grading Mode

PHL 320 Comparative Philosophy **3 Credit hours**
The relations of the world's philosphies to the basic cultural and religious traditions of the world and to the development of the world community. The relations of the world's philosphies to the basic cultural and religious traditions of the world and to the development of the world community.
Attributes: International
Grade Mode: Normal Grading Mode

PHL 321 Current Phil Trends **3 Credit hours**
Selected reading in contemporary thought embracing such movements as realism, Marxism, post-structuralism, deconstruction, and postmodernism. Selected reading in contemporary thought embracing such movements as realism, Marxism, post-structuralism, deconstruction, and postmodernism.
Grade Mode: Normal Grading Mode

PHL 330 Philosophy of Sex **3 Credit hours**
Introduction to some of the basic authors, texts, and themes in this branch of philosophy beginning with Plato's SYMPOSIUM. Introduction to some of the basic authors, texts, and themes in this branch of philosophy beginning with Plato's SYMPOSIUM.
Grade Mode: Normal Grading Mode

PHL 340 Sexual Orient & Gender **3 Credit hours**
An introduction to the philosophy of sexual orientation and its relation to gender, with a special focus on issues of knowledge and politics. An introduction to the philosophy of sexual orientation and its relation to gender, with a special focus on issues of knowledge and politics.
Attributes: Multicultural
Grade Mode: Normal Grading Mode

PHL 353 Philosophy of Science **3 Credit hours**
Reflections on crucial concepts of modern science relevant to philosophical issues in interpreting man and the universe; special attention given to epistemological and other problems of mathematics and physical and social sciences. Reflections on crucial concepts of modern science relevant to philosophical issues in interpreting man and the uni- verse; special attention given to epistemological and other problems of mathematics and physical and social sciences.
Attributes: Multicultural
Grade Mode: Normal Grading Mode

PHL 363 Philosophy of Feminism **3 Credit hours**
An introduction to contemporary feminist theory including discussion of current gender-related issues. An introduction to contemporary feminist theory including discussion of current gender-related issues.
Attributes: Multicultural
Grade Mode: Normal Grading Mode

PHL 392 Junior Seminar **3 Credit hours**
Pre-req: ENG 102 or ENG 302 or ENG 201H or ENG 200H or YGS 162 or IST 201 or CL 231 or CL 232 or CL 319 or PHL 200 or PHL 200H or PHL 201 or PHL 201E or PHL 303 or PHL 321 or PHL 303E or PHL 340 or PHL 353 or RST 205 or RST 206 or RST 300 or RST 304 or RST 320 or RST 325.
Grade Mode: Normal Grading Mode

PHL 393 Junior Seminar **3 Credit hours**
Pre-req: ENG 102 with a minimum grade of D or ENG 302 with a minimum grade of D or ENG 201H with a minimum grade of D or ENG 200H with a minimum grade of D or YGS 162 with a minimum grade of D or IST 201 with a minimum grade of D or CL 231 with a minimum grade of D or CL 232 with a minimum grade of D or CL 319 with a minimum grade of D or PHL 200 with a minimum grade of D or PHL 200H with a minimum grade of D or PHL 201 with a minimum grade of D or PHL 201E with a minimum grade of D or PHL 303 with a minimum grade of D or PHL 303E with a minimum grade of D or PHL 321 with a minimum grade of D or PHL 340 with a minimum grade of D or PHL 353 with a minimum grade of D or RST 205 with a minimum grade of D or RST 206 with a minimum grade of D or RST 300 with a minimum grade of D or RST 304 with a minimum grade of D or RST 320 with a minimum grade of D or RST 325 with a minimum grade of D.
Grade Mode: Normal Grading Mode

PHL 400 Ancient Philosophy **3 Credit hours**
Advanced study of major philosophers drawn from the ancient Greek and Roman period. Advanced study of major philosophers drawn from the ancient Greek and Roman period.
Grade Mode: Normal Grading Mode

PHL 401 Modern Philosophy **3 Credit hours**
Advanced study of major movements in philosophy from the 17th century on, movements such as rationalism, empiricism, idealism, and existentialism.
Pre-req: PHL 201 or PHL 201E.
Grade Mode: Normal Grading Mode

PHL 420 Metaphysics **3 Credit hours**
Advanced study of the most basic nature of reality. (PR: 3 hrs. of philosophy). Advanced study of the most basic nature of reality. (PR: 3 hrs. of philosophy).
Grade Mode: Normal Grading Mode

PHL 421 Philosophy of Knowledge **3 Credit hours**
Advanced study of the nature and possibility of knowledge. Advanced study of the nature and possibility of knowledge.
Grade Mode: Normal Grading Mode

PHL 451 Phil of History & Culture **3 Credit hours**
Ancient and modern theories of the meaning and consequence of history and culture. Ancient and modern theories of the meaning and consequence of history and culture.
Grade Mode: Normal Grading Mode

PHL 455 Philosophy of Religion **3 Credit hours**
Theories of the nature and functions of religion, including the meaning of religious language and the problems of belief. Theories of the nature and functions of religion, including the meaning of religious language and the problems of belief.
Grade Mode: Normal Grading Mode

PHL 460 Phil of Politics & Power **3 Credit hours**
Advanced study of the significance or the place in human reality of political organization, negotiation, strategy and power.
Grade Mode: Normal Grading Mode

PHL 465 Existential Philosophy **3 Credit hours**
A study of existential philosophers from Kierkegaard to Heidegger, Sartre and beyond. A study of existential philosophers from Kierkegaard to Heidegger, Sartre and beyond.
Grade Mode: Normal Grading Mode

PHL 470 Philosophy of Logic **3 Credit hours**
Advanced study of the nature of logic: whether logic is possible at all, how far it applies, and whether and how there can be conflicting logics.
Grade Mode: Normal Grading Mode

PHL 480 Special Topics **1-4 Credit hours**
Shared study and reserach on a special topic as announced. Shared study and reserach on a special topic as announced.
Grade Mode: Normal Grading Mode

PHL 481 Special Topics **1-4 Credit hours**
Shared study and research on a special topic as announced. Shared study and research on a special topic as announced.
Grade Mode: Normal Grading Mode

PHL 482 Special Topics **1-4 Credit hours**
Shared study and research on a special topic as announced. Shared study and research on a special topic as announced.
Grade Mode: Normal Grading Mode

PHL 483 Special Topics **1-4 Credit hours**
Shared study and research on a special topic as announced. Shared study and research on a special topic as announced.
Grade Mode: Normal Grading Mode

PHL 485 Independent Study **1-4 Credit hours**
Grade Mode: Normal Grading Mode

PHL 486 Independent Study **1-4 Credit hours**
Grade Mode: Normal Grading Mode

PHL 487 Independent Study **1-4 Credit hours**
Grade Mode: Normal Grading Mode

PHL 488 Independent Study **1-4 Credit hours**
Attributes: No Textbook Required
Grade Mode: Normal Grading Mode

PHL 490 Senior Seminar in Humanities **3 Credit hours**
Designed for majors as a senior humanities seminar and the culminating interdisciplinary study in the humanities program. (Same as CL 490 - 494 and RST 490 - 494)
Pre-req: ENG 102 with a minimum grade of D or ENG 302 with a minimum grade of D or ENG 201H with a minimum grade of D or ENG 200H with a minimum grade of D or YGS 162 with a minimum grade of D or IST 201 with a minimum grade of D or CL 231 with a minimum grade of D or CL 232 with a minimum grade of D or CL 233 with a minimum grade of D or CL 319 with a minimum grade of D or PHL 200 with a minimum grade of D or PHL 200H with a minimum grade of D or PHL 201 with a minimum grade of D or PHL 303 with a minimum grade of D or PHL 321 with a minimum grade of D or PHL 340 with a minimum grade of D or PHL 353 with a minimum grade of D or RST 205 with a minimum grade of D or RST 206 with a minimum grade of D or RST 300 with a minimum grade of D or RST 304 with a minimum grade of D or RST 320 with a minimum grade of D or RST 325 with a minimum grade of D.
Grade Mode: Normal Grading Mode

PHL 491 Senior Seminar in Humanities **3 Credit hours**
Designed for majors as a senior humanities seminar and the culminating interdisciplinary study in the humanities program. (Same as CL 490 - 494 and RST 490 - 494)
Pre-req: ENG 102 or ENG 302 or ENG 201H or ENG 200H or YGS 162 or IST 201 or CL 231 or CL 232 or CL 233 or CL 319 or PHL 200 or PHL 200H or PHL 201 or PHL 303 or PHL 321 or PHL 340 or PHL 353 or RST 205 or RST 206 or RST 300 or RST 304 or RST 320 or RST 325.
Grade Mode: Normal Grading Mode

PHL 492 Senior Seminar in Humanities **3 Credit hours**
Designed for majors as a senior humanities seminar and the culminating interdisciplinary study in the humanities program. (Same as CL 490 - 494 and RST 490 - 494)
Pre-req: ENG 102 or ENG 302 or ENG 201H or ENG 200H or YGS 162 or IST 201 or CL 231 or CL 232 or CL 233 or CL 319 or PHL 200 or PHL 200H or PHL 201 or PHL 303 or PHL 340 or PHL 321 or PHL 353 or RST 205 or RST 206 or RST 300 or RST 304 or RST 320 or RST 325.
Grade Mode: Normal Grading Mode

PHL 494 Senior Seminar in Humanities **3 Credit hours**
Designed for majors as a senior humanities seminar and the culminating interdisciplinary study in the humanities program. (Same as CL 490 - 494 and RST 490 -494)
Pre-req: ENG 102 or ENG 302 or ENG 201H or ENG 200H or YGS 162 or IST 201 or CL 231 or CL 232 or CL 233 or CL 319 or PHL 200 or PHL 200H or PHL 201 or PHL 303 or PHL 321 or PHL 340 or PHL 353 or RST 205 or RST 206 or RST 300 or RST 304 or RST 320 or RST 325 or ENG 201.
Grade Mode: Normal Grading Mode

Religious Studies

RST 205 Religious Trads of West **3 Credit hours**
A comparative study of major religious traditions of the Western world: Judaism, Christianity, Islam, Zorastrianism and religions of the Americas. A comparative study of major religious traditions of the Western world: Judaism, Christianity, Islam, Zorastrianism and religions of the Americas.
Attributes: Core II Humanities, International
Grade Mode: Normal Grading Mode

RST 206 Religious Traditions Asia **3 Credit hours**
A comparative study of the major religious traditions of Asia: Hinduism, Buddhism, Confucianism, Taoism and Shinto, and how these religions have influenced Asian thought and cultures. A comparative study of the major religious traditions of Asia: Hinduism, Buddhism, Confucianism, Taoism and Shinto, and how these religions have influenced Asian thought and cultures.
Attributes: Core II Humanities, International
Grade Mode: Normal Grading Mode

RST 207 Biblical Geography **3 Credit hours**
Students explore the physical and human geography of ancient Palestine and assess how geography informs our understanding of people, events, and places described by Jewish and Christian scriptures.
Grade Mode: Normal Grading Mode

RST 220 Lit of Old Testament **3 Credit hours**
Traces the origins, growth and development of the literature of Hebrew people to the Greek period. Includes an introduction to and application of modern tools of biblical study. Traces the origins, growth and development of the literature of Hebrew people to the Greek period. Includes an introduction to and application of modern tools of biblical study.
Attributes: Core II Humanities, Literature
Grade Mode: Normal Grading Mode

RST 225 Lit of New Testament **3 Credit hours**
Traces the origins, growth, and development of the literature of the early Christian church. Includes an introduction to and application of modern tools of biblical study. Traces the origins, growth, and development of the literature of the early Christian church. Includes an introduction to and application of modern tools of biblical study.
Attributes: Core II Humanities, Literature
Grade Mode: Normal Grading Mode

RST 250 Humanities and Film (CT) **3 Credit hours**
An interdisciplinary course to introduce students to the elements of a humanistic education through study of film. (Same as Philosophy 250 and Classics 250; PR or CR: ENG 101)
Pre-req: ENG 101 with a minimum grade of C or ENG 200H (may be taken concurrently) or ENG 201H (may be taken concurrently) or ENG 101P (may be taken concurrently).
Concurrent PR: ENG 101 or ENG 200H or ENG 201H or ENG 101P
Attributes: Critical Thinking, Core II Humanities, Literature, Multicultural
Grade Mode: Normal Grading Mode

RST 280 Special Topics **1-4 Credit hours**
Research adaptable to the needs of the individual student. Research adaptable to the needs of the individual student.
Grade Mode: Normal Grading Mode

RST 281 Special Topics **1-4 Credit hours**
Research adaptable to the needs of the individual student. Research adaptable to the needs of the individual student.
Grade Mode: Normal Grading Mode

RST 282 Special Topics **1-4 Credit hours**
Research adaptable to the needs of the individual student. Research adaptable to the needs of the individual student.
Grade Mode: Normal Grading Mode

RST 283 Special Topics **1-4 Credit hours**
Research adaptable to the needs of the individual student. Research adaptable to the needs of the individual student.
Grade Mode: Normal Grading Mode

RST 300 The Nature of Religion **3 Credit hours**
An analysis of the nature of religious personalities, institutions, literature, philosophies, experiences, and education. An analysis of the nature of religious personalities, institutions, literature, philosophies, experiences, and education.
Attributes: Multicultural
Grade Mode: Normal Grading Mode

RST 303 World of Islam **3 Credit hours**
An examination of the global cultures of Islam with particular focus upon the origin and development of the religion which binds them together. An examination of the global cultures of Islam with particular focus upon the origin and development of the religion which binds them together.
Attributes: International
Grade Mode: Normal Grading Mode

RST 304 The Teachings of Jesus **3 Credit hours**
An analysis of early Christian writing and a systematic study of the message of the historical Jesus that stands behind it. An analysis of early Christian writing and a systematic study of the message of the historical Jesus that stands behind it.
Attributes: Literature
Grade Mode: Normal Grading Mode

RST 305 Early Christianity **3 Credit hours**
Traces the background, birth, and development of Christian thought from Paul through Augustine. Traces the background, birth, and development of Christian thought from Paul through Augustine.
Grade Mode: Normal Grading Mode

RST 310 The Hebrew Prophets **3 Credit hours**
The rise of the office of prophet and the contributions of prophecy to religion. The rise of the office of prophet and the contributions of prophecy to religion.
Attributes: Literature
Grade Mode: Normal Grading Mode

RST 311 Jewish Holocaust **3 Credit hours**
An examination of the religious/philosophical questions raised by the Holocaust of European Jews: Why and how did it occur? What does it tell us about religion and humanity? An examination of the religious/philosophical questions raised by the Holocaust of European Jews: Why and how did it occur? What does it tell us about religion and humanity?
Grade Mode: Normal Grading Mode

RST 319 ABCs of Orthodoxy **3 Credit hours**
An examination of Eastern Orthodox Christianity from the culture in which it was birthed to its place in today's society. An examination of Eastern Orthodox Christianity from the culture in which it was birthed to its place in today's society.
Grade Mode: Normal Grading Mode

RST 321 The Protestant Faith **3 Credit hours**
An examination of the distinctive historical and theological features of the Protestant movement in Western Christendom, with special attention to the distinctive beliefs and practices of contemporary American denominations. An examination of the distinctive historical and theological features of the Protestant movement in Western Christendom, with special attention to the distinctive beliefs and practices of contemporary American denominations.
Grade Mode: Normal Grading Mode

RST 323 Religion in America **3 Credit hours**
The rise and development of religious thinking in America. (Same as History 323) The rise and development of religious thinking in America. (Same as History 323)
Grade Mode: Normal Grading Mode

RST 324 The Jewish Way of Life **3 Credit hours**
An exploration of the distinctive features of the heritage of modern Judaism. An integrated approach to the study of Jewish religious practices, teachings, literature, and contributions to contemporary life. An exploration of the distinctive features of the heritage of modern Judaism. An integrated approach to the study of Jewish religious practices, teachings, literature, and contributions to contemporary life.
Grade Mode: Normal Grading Mode

RST 351 Classics of Rel Lit **3 Credit hours**
A contextual analysis of selected popular regigious classics, e.g., Foxe's Book of Martyrs, Bunyan's Pilgrim's Progress, St. Augustine's Confessions, Bhagavad-Gita, and the like. A contextual analysis of selected popular regigious classics, e.g., Foxe's Book of Martyrs, Bunyan's Pilgrim's Progress, St. Augustine's Confessions, Bhagavad-Gita, and the like.
Attributes: Literature
Grade Mode: Normal Grading Mode

RST 360 Hindu Mysticism **3 Credit hours**
A general survey of religious life and mysticism throughout South Asian history. A general survey of religious life and mysticism throughout South Asian history.
Grade Mode: Normal Grading Mode

RST 361 Buddhism **3 Credit hours**
General survey of Buddhist life throughout history and around the world. General survey of Buddhist life throughout history and around the world.
Attributes: International
Grade Mode: Normal Grading Mode

RST 390 Junior Seminar in Humanities **3 Credit hours**
A structured interdisciplinary study offered by the departments of Classics, Philosopy and Religious Studies in the foundations of human thought, myth, literature, religion, philosophy, art. (Same as Classics 390 - 394 and Philosophy 390 - 394).
Pre-req: ENG 102 or ENG 302 or ENG 201H or YGS 162 or IST 201 or CL 231 or CL 232 or CL 233 or CL 319 or PHL 200 or PHL 201 or PHL 303 or PHL 321 or PHL 340 or PHL 353 or RST 205 or RST 206 or RST 300 or RST 304 or RST 320 or RST 325.
Grade Mode: Normal Grading Mode

RST 391 Junior Seminar in Humanities **3 Credit hours**
A structured interdisciplinary study offered by the departments of Classics, Philosopy and Religious Studies in the foundations of human thought, myth, literature, religion, philosopy, art. (Same as Classics 390 - 394 and Philosophy 390 - 394).
Pre-req: ENG 102 or ENG 302 or ENG 201H or YGS 162 or IST 201 or CL 231 or CL 232 or CL 233 or CL 319 or PHL 200 or PHL 201 or PHL 303 or PHL 321 or PHL 340 or PHL 353 or RST 205 or RST 206 or RST 300 or RST 304 or RST 320 or RST 325.
Grade Mode: Normal Grading Mode

RST 392 Junior Seminar **3 Credit hours**
A structured interdisciplinary study offered by the departments of Classics, Philosophy and Religious Studies in the foundations of human thought, myth, literature, religion, philosophy, art. (Same as Classics 390 - 394 and Philosopy 390 - 394).
Pre-req: ENG 102 or ENG 302 or ENG 201H or YGS 162 or IST 201 or CL 231 or CL 232 or CL 233 or CL 319 or PHL 200 or PHL 201 or PHL 303 or PHL 321 or PHL 340 or PHL 353 or RST 205 or RST 206 or RST 300 or RST 304 or RST 320 or RST 325.
Grade Mode: Normal Grading Mode

RST 393 Junior Seminar in Humanities **3 Credit hours**
A structured interdisciplinary study offered by the departments of Classics, Philosophy and Religious Studies in the foundations of human thought, myth, literature, religion, philosophy, art. (Same as Classics 390 - 394 and Philosophy 390 - 394).
Pre-req: ENG 102 or ENG 302 or ENG 201H or YGS 162 or IST 201 or CL 231 or CL 232 or CL 233 or CL 319 or PHL 200 or PHL 201 or PHL 303 or PHL 321 or PHL 340 or PHL 353 or RST 205 or RST 206 or RST 300 or RST 304 or RST 320 or RST 325.
Grade Mode: Normal Grading Mode

RST 394 Junior Seminar in Humanities **3 Credit hours**
A structured interdisciplinary study offered by the departments of Classics, Philosophy and Religious Studies in the foundations of human thought, myth, literature, religion, philosophy, art. (Same as Classics 390 - 394 and Philosophy 390 - 394).
Pre-req: ENG 102 or ENG 302 or ENG 201H or YGS 162 or IST 201 or CL 231 or CL 232 or CL 233 or CL 319 or PHL 200 or PHL 201 or PHL 303 or PHL 321 or PHL 340 or PHL 353 or RST 205 or RST 206 or RST 300 or RST 304 or RST 320 or RST 325.
Grade Mode: Normal Grading Mode

RST 419 Rel Thought in West World **3 Credit hours**
An analysis of the major schools of religious thought as they have developed in the West. An analysis of the major schools of religious thought as they have developed in the West.
Grade Mode: Normal Grading Mode

RST 450 Sociology of Religion **3 Credit hours**
An investigation into religion as a social phenomenon. An investigation into religion as a social phenomenon.
Grade Mode: Normal Grading Mode

RST 480 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

RST 481 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

RST 482 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

RST 483 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

RST 485 Independent Study **1-4 Credit hours**
Attributes: No Textbook Required
Grade Mode: Normal Grading Mode

RST 486 Independent Study **1-4 Credit hours**
Grade Mode: Normal Grading Mode

RST 487 Independent Study **1-4 Credit hours**
Grade Mode: Normal Grading Mode

RST 488 Independent Study **1-4 Credit hours**
Grade Mode: Normal Grading Mode

RST 490 Senior Seminar in Humanities **3 Credit hours**
Disigned for majors as a senior humanities seminar and the culminating interdisciplinary study in the Humanities program. (Same as Classics 490 -494 and Philosopy 490 - 494),
Pre-req: ENG 102 or ENG 302 or ENG 201H or YGS 162 or IST 201 or CL 231 or CL 232 or CL 233 or CL 319 or PHL 200 or PHL 201 or PHL 303 or PHL 321 or PHL 340 or PHL 353 or RST 205 or RST 206 or RST 300 or RST 304 or RST 320 or RST 325.
Grade Mode: Normal Grading Mode

RST 491 Senior Seminar in Humanities **3 Credit hours**
Designed for majors as a senior humanities seminar and the culminating interdisciplinary study in the Humanities program. (Same as Classics 490 - 494 and Philosphy 490 - 494).
Pre-req: ENG 102 or ENG 302 or ENG 201H or YGS 162 or IST 201 or CL 231 or CL 232 or CL 233 or CL 319 or PHL 200 or PHL 201 or PHL 303 or PHL 321 or PHL 340 or PHL 353 or RST 205 or RST 206 or RST 300 or RST 304 or RST 320 or RST 325.
Grade Mode: Normal Grading Mode

RST 492 Senior Seminar in Humanities **3 Credit hours**
Designed for majors as a senior humanities seminar and the culminating interdisciplinary study in the Humanities program. Same as Classics 490 - 494 and Philosophy 490 - 494).
Pre-req: ENG 102 or ENG 302 or ENG 201H or YGS 162 or IST 201 or CL 231 or CL 232 or CL 233 or CL 319 or PHL 200 or PHL 201 or PHL 303 or PHL 321 or PHL 340 or PHL 353 or RST 205 or RST 206 or RST 300 or RST 304 or RST 320 or RST 325.
Grade Mode: Normal Grading Mode

RST 493 Senior Seminar in Humanities **3 Credit hours**
Designed for majors as a senior humanities seminar and the culminating interdisciplinary study in the Humanities program. (Same as Classics 490 - 494 and Philosophy 490 - 494).
Pre-req: ENG 102 or ENG 302 or ENG 201H or YGS 162 or IST 201 or CL 231 or CL 232 or CL 233 or CL 319 or PHL 200 or PHL 201 or PHL 303 or PHL 321 or PHL 340 or PHL 353 or RST 205 or RST 206 or RST 300 or RST 304 or RST 320 or RST 325.
Grade Mode: Normal Grading Mode

RST 494 Senior Seminar in Humanities **3 Credit hours**
Designed for majors as a senior humanities seminar and the culminating interdisciplinary study in the Humanities program. (Same as Classics 490 -494 and Philosophy 490 - 494).
Pre-req: ENG 102 or ENG 302 or ENG 201H or YGS 162 or IST 201 or CL 231 or CL 232 or CL 233 or CL 319 or PHL 200 or PHL 201 or PHL 303 or PHL 321 or PHL 340 or PHL 353 or RST 205 or RST 206 or RST 300 or RST 304 or RST 320 or RST 325.
Grade Mode: Normal Grading Mode

Faculty

Professors
Barris, Chrol, Franzen, Ormiston, Powell, Ruff, Vielkind

Assistant Professor
Cummings

Classics, Minor

A minor in Classics consists of fifteen hours drawn from any Classics course except CL 200 Building English Vocab.

General Humanities, Minor

A minor in General Humanities consists of 6 credit hours each from CL, PHL and RST. Variations of distribution must be cleared with the Humanities department chair.

Greek, Minor

A minor in Greek consists of:

Code	Title	Credit Hours
GRK 201	Ancient Greek First Year	3
GRK 202	Ancient Greek First Year	3
GRK 301	Anc Intermed Greek	3
GRK 302	Anc Intermed Greek	3
Select one of the following:		3
CL 435	Greek Civilization	
CL 471	Ancient Sexuality	
CL 472	Rhetoric of Seduction	
Total Credit Hours		**15**

Humanities, B.A.

- General Education Course

- Milestone course: a key success marker for your major. See your advisor to discuss the importance of this course in your plan of study.

Major

The Core Curriculum is designed to foster critical thinking skills and introduce students to basic domains of thinking that transcend disciplines. The Core applies to all majors. Information on specific classes in the Core can be found at https://www.marshall.edu/gened/.

Code	Title	Credit Hours
Core Curriculum		
Core 1: Critical Thinking		
FYS 100	First Yr Sem Critical Thinking	3
MTH 121	Concepts and Applications (CT)	3
Critical Thinking Course		3
Core 2		
ENG 101	Beginning Composition	3
ENG 201	Advanced Composition	3
CMM 103	Fund Speech-Communication	3
MTH 121	Concepts and Applications (CT)	3
Core II Natural/Physical Science		4
Core II Humanities: Intro course		3
Core II Social Science		3
Core II Fine Arts		3
Additional University Requirements		
Writing Intensive		3
Writing Intensive		3
Multicultural/International		3
Capstone (400-level Interdisc Major Elect)		3
College-Specific		
Foreign Language 101		3
Foreign Language 102		3
Foreign Language 203		3
Foreign Language 204		3
300/400 COLA Literature		3
COLA Literature		3
300/400 COLA Humanities		3
300/400 COLA Social Science		3
COLA Social Science		3
COLA Social Science		3
COLA Natural/Physical Science		4
300/400 COLA International		3
300/400 COLA Multicultural		3
Major-Specific		
CL Introductory Course		
Any 200-level course except: CL 200		

PHL Introductory Course	
Any 200 or 300 level course, except: PHL 302, PHL 304	
RST Introductory Course	
Select one of the following:	3
RST 205 Religious Trads of West	
RST 206 Religious Traditions Asia	
RST 300 The Nature of Religion	
Major Contract Courses	
300-400 Major Contract Course	3
300-400 Major Contract Course	3
300-400 Major Contract Course	3
300-400 Major Contract Course	3
300-400 Major Contract Course	3
Electives	
300-400 Interdisciplinary Major Elective	3
300-400 Interdisciplinary Major Elective	3
400 Interdisciplinary Major Elective (Capstone)	3
300-400 Free Elective	3
300-400 Free Elective	3
300-400 Free Elective	3
Free Elective	1

Major Information

- The total number of free electives will depend on the amount of double and triple counting of requirements.
- See course attributes each semester for courses that meet multiple requirements.
- Questions about requirements should be directed to the College of Liberal Arts (304-696-2350). Core II and COLA requirements may not be double counted.
- Forty-eight credit hours (sixteen 3-hour courses) must be at the 300/400 level.
- Students must earn a *C* or better in ENG 201 Advanced Composition and all foreign language courses.
- Minimum of 120 hours to graduate

The program consists of 33 hours of coursework in three parts:

- Three courses introducing the specific goals and methods of the three disciplines (9 hours). These courses place special emphasis on the particular discipline's approaches to knowledge, critical thought, skills of expression, and human development. Students must choose from those listed, one for each discipline.
- Department-Approved Courses (15 hours) to be chosen by the student, usually with the advice of a committee of faculty members. Each major may select a small advisory committee to assist with course selection, advising, and long-range planning.
- Three interdisciplinary, team-taught courses (9 hours), in any combination of levels, but including at least one at the 400 level as the senior capstone experience.

- General Education Course

- Milestone course: a key success marker for your major. See your advisor to discuss the importance of this course in your plan of study.

Four Year Plan

The Humanities major offers concentrations in Classics, Philosophy, and Religious Studies (CL/PHL/RST). This major is unique in two ways: Students may choose coursework equivalent to a major in a single department or create a broader curriculum of their choice from various humanities courses, and our program also has a strong interdisciplinary side. The goal of the program is to help us deepen our understanding of ourselves and our culture by exploring the way human beings find meaning in their experience. We explore these ways by studying both our own individual insights and the artistic, philosophical and religious works that have expressed and shaped human experience.

Course	Title	Credit Hours
First Year		
First Semester		
CMM 103	Fund Speech-Communication	3
ENG 101	Beginning Composition	3
FYS 100	First Yr Sem Critical Thinking	3
UNI 100	Freshman First Class	1
Core II Social Science		3
Core II Fine Arts		3
	Credit Hours	**16**
Second Semester		
ENG 201	Advanced Composition	3
Core II Physical/Natural Science		4
Critical Thinking		3
MTH 121	Concepts and Applications (CT)	3
Core II Humanities: Intro Course		3
	Credit Hours	**16**
Second Year		
First Semester		
PHL Introductory Course		3
Critical Thinking		3
Foreign Language 101		3
COLA Social Science		3
Multicultural/International		3
	Credit Hours	**15**
Second Semester		
Writing Intensive		3
Foreign Language 102		3
COLA Social Science		3
COLA Physical/Natural Science		4
RST Introductory Course		3
	Credit Hours	**16**
Third Year		
First Semester		
300/400 Interdisciplinary Major Elective		4
300-400 COLA International		1
300-400 Free Elective		3
300-400 COLA Multicultural		3

Foreign Language 203	3
Credit Hours	**14**
Second Semester	
300-400 Major Contract Course	3
300-400 Major Contract Course	3
Foreign Language 204	3
300-400 COLA Social Science	3
Writing Intensive	3
Credit Hours	**15**
Fourth Year	
First Semester	
400 Interdisc Major Elect (capstone)	3
300/400 COLA Literature	3
300-400 Major Contract Course	3
300-400 Free Elective	3
300-400 Free Elective	3
Credit Hours	**15**
Second Semester	
300-400 Major Contract Course	3
300-400 Interdisc Major Elective	3
300-400 Major Contract Course	3
COLA Literature	3
Free Elective	1
Credit Hours	**13**
Total Credit Hours	**120**

Areas of Emphasis

- Classics, Concentration (p. 349)
- Philosophy, Concentration (p. 350)
- Religious Studies, Concentration (p. 352)

Classics, Concentration

- General Education Course

- Milestone course: a key success marker for your major. See your advisor to discuss the importance of this course in your plan of study.

Major

The Core Curriculum is designed to foster critical thinking skills and introduce students to basic domains of thinking that transcend disciplines. The Core applies to all majors. Information on specific classes in the Core can be found at https://www.marshall.edu/gened/.

Code	Title	Credit Hours
Core Curriculum		
Core 1: Critical Thinking		
FYS 100	First Yr Sem Critical Thinking	3
MTH 121	Concepts and Applications (CT)	3
Critical Thinking Course		3
Core 2		
ENG 101	Beginning Composition	3
ENG 201	Advanced Composition	3
CMM 103	Fund Speech-Communication	3
MTH 121	Concepts and Applications (CT)	3
Core II Natural/Physical Science		4
Core II Humanities: CL Intro course		3
Core II Social Science		3
Core II Fine Arts		3
Additional University Requirements		
Writing Intensive		3
Writing Intensive		3
Multicultural or International		3
Capstone		3
College-Specific		
Foreign Language 101		3
Foreign Language 102		3
Foreign Language 203		3
Foreign Language 204		3
300/400 COLA Literature		3
COLA Literature		3
300/400 COLA Humanities		3
300/400 COLA Social Science		3
COLA Social Science		3
COLA Social Science		3
COLA Natural/Physical Science		4
300/400 COLA International		3
300/400 COLA Multicultural		3
Major-Specific		
CL Introductory Course (Core II Hum)		
Any 200-level course except: CL 200		3
PHL Introductory Course		
Any 200 or 300 level course, except: PHL 302, PHL 304		3
RST Introductory Course		
Select one of the following:		3
RST 205	Religious Trads of West	
RST 206	Religious Traditions Asia	
RST 300	The Nature of Religion	
Major Contract Courses		
300/400 Major Contract Course		4
300/400 Major Contract Course		3
300/400 Major Contract Course		3
300/400 Major Contract Course		3
300/400 Major Contract Course		3
Electives		
300/400 Interdisciplinary Major Elective		3
300/400 Interdisciplinary Major Elective		3
400 Interdisciplinary Major Elective (Capstone)		3
300/400 Free Elective		3
300/400 Free Elective		3
300/400 Free Elective		3

Major Information

- The total number of free electives will depend on the amount of double and triple counting of requirements.

- See course attributes each semester for courses that meet multiple requirements.
- Questions about requirements should be directed to the College of Liberal Arts (304-696-2350). Core II and COLA requirements may not be double counted.
- Students must earn a *C* or better in ENG 201 Advanced Composition and all foreign language courses.
- Forty-eight credit hours (sixteen 3-hour courses) must be at the 300/400 level.
- Minimum of 120 hours to graduate.

The program consists of 33 hours of coursework in three parts:

- Three courses introducing the specific goals and methods of the three disciplines (9 hours). These courses place special emphasis on the particular discipline's approaches to knowledge, critical thought, skills of expression, and human development. Students must choose from those listed, one for each discipline.
- Department-Approved Courses (15 hours) to be chosen by the student, usually with the advice of a committee of faculty members. Each major may select a small advisory committee to assist with course selection, advising, and long-range planning.
- Three interdisciplinary, team-taught courses (9 hours), in any combination of levels, but including at least one at the 400 level as the senior capstone experience.

- General Education Course

- Milestone course: a key success marker for your major. See your advisor to discuss the importance of this course in your plan of study.

Four Year Plan

The Humanities major offers concentrations in Classics, Philosophy, and Religious Studies (CL/PHL/RST). This major is unique in two ways: Students may choose coursework equivalent to a major in a single department or create a broader curriculum of their choice from various humanities courses, and our program also has a strong interdisciplinary side. The goal of the program is to help us deepen our understanding of ourselves and our culture by exploring the way human beings find meaning in their experience. We explore these ways by studying both our own individual insights and the artistic, philosophical and religious works that have expressed and shaped human experience.

Course	Title	Credit Hours
First Year		
First Semester		
Foreign Language 101		3
CMM 103	Fund Speech-Communication	3
ENG 101	Beginning Composition	3
FYS 100	First Yr Sem Critical Thinking	3
Core II Social Science		3
UNI 100	Freshman First Class	1
	Credit Hours	**16**
Second Semester		
Foreign Language 102		3
ENG 201	Advanced Composition	3
Core II Humanities (CL Intro Course)		3
Critical Thinking		3
MTH 121	Concepts and Applications (CT)	3
	Credit Hours	**15**
Second Year		
First Semester		
Foreign Language 203		3
PHL Introductory Course		3
Core II Physical/Natural Science		4
Core II Fine Arts		3
Multicultural/International		3
	Credit Hours	**16**
Second Semester		
Foreign Language 204		3
Writing Intensive		3
COLA Social Science		3
300/400 Interdisciplinary Major Elective		3
RST Introductory Course		3
	Credit Hours	**15**
Third Year		
First Semester		
COLA Physical/Natural Science		4
300/400 Major Contract Course		3
300/400 COLA International		3
COLA Social Science		3
300/400 Free Elective		3
	Credit Hours	**16**
Second Semester		
300/400 Interdisciplinary Major Elective		3
300/400 Major Contract Course		3
300/400 COLA Multicultural		3
300/400 COLA Social Science		3
300/400 COLA Humanities		3
	Credit Hours	**15**
Fourth Year		
First Semester		
400 Interdiscplinary Major Elective (capstone)		3
300/400 Major Contract Course		3
COLA Literature		3
300/400 Free Elective		3
300/400 Free Elective		3
	Credit Hours	**15**
Second Semester		
300/400 Major Contract Course		3
300/400 Major Contract Course		3
Writing Intensive		3
300/400 COLA Literature		3
	Credit Hours	**12**
	Total Credit Hours	**120**

Philosophy, Concentration

- General Education Course

- Milestone course: a key success marker for your major. See your advisor to discuss the importance of this course in your plan of study.

Major

The Core Curriculum is designed to foster critical thinking skills and introduce students to basic domains of thinking that transcend disciplines. The Core applies to all majors. Information on specific classes in the Core can be found at https://www.marshall.edu/gened/.

Code	Title	Credit Hours
Core Curriculum		
Core 1: Critical Thinking		
FYS 100	First Yr Sem Critical Thinking	3
MTH 121	Concepts and Applications (CT)	3
Critical Thinking Course		3
Core 2		
ENG 101	Beginning Composition	3
ENG 201	Advanced Composition	3
CMM 103	Fund Speech-Communication	3
MTH 121	Concepts and Applications (CT)	3
Core II Natural/Physical Science		4
Core II Humanities: PHL Intro course		3
Core II Social Science		3
Core II Fine Arts		3
Additional University Requirements		
Writing Intensive		3
Writing Intensive		3
Multicultural or International		3
Capstone (400-level Interdisciplinary Major Elective)		3
College-Specific		
Foreign Language 101		3
Foreign Language 102		3
Foreign Language 203		3
Foreign Language 204		3
300/400 COLA Literature		3
COLA Literature		3
300/400 COLA Humanities		3
300/400 COLA Social Science		3
COLA Social Science		3
COLA Social Science		3
COLA Natural/Physical Science		4
300/400 COLA International		3
300/400 COLA Multicultural		3
Major-Speicfic		
PHL Introductory Course		
Any 200 or 300 level course, except: PHL 302, PHL 304		3
CL Introductory Course		
Any 200-level course except: CL 200		3
RST Introductory Course		
Select one of the following:		3
RST 205	Religious Trads of West	
RST 206	Religious Traditions Asia	
RST 300	The Nature of Religion	
Major Contract Courses		
300/400 Major Contract Course		3
300/400 Major Contract Course		3
300/400 Major Contract Course		3
300/400 Major Contract Course		3
300/400 Major Contract Course		3
Electives		
300/400 Interdisciplinary Major Elective		3
300/400 Interdisciplinary Major Elective		3
400 Interdisciplinary Major Elective (Capstone)		3
300/400 Free Elective		3
300/400 Free Elective		3
300/400 Free Elective		3

Major Information

- The total number of free electives will depend on the amount of double and triple counting of requirements.
- See course attributes each semester for courses that meet multiple requirements.
- Questions about requirements should be directed to the College of Liberal Arts (304-696-2350). Core II and COLA requirements may not be double counted.
- Forty-eight credit hours (sixteen 3-hour courses) must be at the 300/400 level.
- Students must earn a *C* or better inENG 201 Advanced Composition and all foreign language courses.
- Minimum of 120 hours to graduate, with at least 48 hours at the 300/400 level.

The program consists of 33 hours of coursework in three parts:

- Three courses introducing the specific goals and methods of the three disciplines (9 hours). These courses place special emphasis on the particular discipline's approaches to knowledge, critical thought, skills of expression, and human development. Students must choose from those listed, one for each discipline.
- Department-Approved Courses (15 hours) to be chosen by the student, usually with the advice of a committee of faculty members. Each major may select a small advisory committee to assist with course selection, advising, and long-range planning.
- Three interdisciplinary, team-taught courses (9 hours), in any combination of levels, but including at least one at the 400 level as the senior capstone experience.

- General Education Course

- Milestone course: a key success marker for your major. See your advisor to discuss the importance of this course in your plan of study.

Four Year Plan

The Humanities major offers concentrations in Classics, Philosophy, and Religious Studies (CL/PHL/RST). This major is unique in two ways: Students may choose coursework equivalent to a major in a single department or create a broader curriculum of their choice from various humanities courses, and our program also has a strong interdisciplinary side. The goal of the program is to help us deepen our understanding of ourselves and our culture by exploring the way

human beings find meaning in their experience. We explore these ways by studying both our own individual insights and the artistic, philosophical and religious works that have expressed and shaped human experience.

Course	Title	Credit Hours
First Year		
First Semester		
CMM 103	Fund Speech-Communication	3
ENG 101	Beginning Composition	3
FYS 100	First Yr Sem Critical Thinking	3
Core II Social Science		3
Core II Fine Arts		3
UNI 100	Freshman First Class	1
	Credit Hours	**16**
Second Semester		
ENG 201	Advanced Composition	3
Multicultural/International		3
Critical Thinking		3
MTH 121	Concepts and Applications (CT)	3
Core II Humanities: PHL Intro Course		3
	Credit Hours	**15**
Second Year		
First Semester		
Core II Physical/Natural Science		4
300/400 COLA International		3
Foreign Language 101		3
CL Introductory Course		3
COLA Social Science		3
	Credit Hours	**16**
Second Semester		
Writing Intensive		3
Foreign Language 102		3
COLA Social Science		3
300/400 COLA Humanities		3
RST Introductory Course		3
	Credit Hours	**15**
Third Year		
First Semester		
300/400 Interdisciplinary Major Elective		3
COLA Physical/Natural Science		4
300/400 Free Elective		3
300/400 COLA Multicultural		3
Foreign Language 203		3
	Credit Hours	**16**
Second Semester		
Writing Intensive		3
300/400 Major Contract Course		3
Foreign Language 204		3
300/400 COLA Social Science		3
300/400 Major Contract Course		3
	Credit Hours	**15**
Fourth Year		
First Semester		
400 Interdisciplinary Major Elective (capstone)		3
300/400 COLA Literature		3
300/400 Major Contract Course		3
300/400 Free Elective		3
300/400 Free Elective		3
	Credit Hours	**15**
Second Semester		
300/400 Major Contract Course		3
300/400 Major Contract Course		3
300/400 Interdisciplinary Major Elective		3
COLA Literature		3
	Credit Hours	**12**
	Total Credit Hours	**120**

Religious Studies, Concentration

- General Education Course

- Milestone course: a key success marker for your major. See your advisor to discuss the importance of this course in your plan of study.

Major

The Core Curriculum is designed to foster critical thinking skills and introduce students to basic domains of thinking that transcend disciplines. The Core applies to all majors. Information on specific classes in the Core can be found at https://www.marshall.edu/gened/.

Code	Title	Credit Hours
Core Curriculum		
Core 1: Critical Thinking		
FYS 100	First Yr Sem Critical Thinking	3
MTH 121	Concepts and Applications (CT)	3
Critical Thinking Course		3
Core 2		
ENG 101	Beginning Composition	3
ENG 201	Advanced Composition	3
CMM 103	Fund Speech-Communication	3
MTH 121	Concepts and Applications (CT)	3
Core II Natural/Physical Science		4
Core II Humanities: RST Intro course		3
Core II Social Science		3
Core II Fine Arts		3
Additional University Requirements		
Writing Intensive		3
Writing Intensive		3
Multricultural or International		3
Capstone (400-level Interdisciplinary Major Elective)		3
College-Specific		
Foreign Language 101		3

Foreign Language 102	3
Foreign Language 203	3
Foreign Language 204	3
300/400 COLA Literature	3
COLA Literature	3
300/400 COLA Humanities	3
300/400 COLA Social Science	3
COLA Social Science	3
COLA Social Science	3
COLA Natural/Physical Science	4
300/400 COLA International	3
300/400 COLA Multicultural	3
Major-Specific	
RST Introductory Course (Core II Hum)	
Select one of the following:	3
RST 205 Religious Trads of West	
RST 206 Religious Traditions Asia	
RST 300 The Nature of Religion	
CL Introductory Course	*3*
Any 200-level course except: CL 200	
PHL Introductory Course	*3*
Any 200 or 300 level course, except: PHL 302, PHL 304	
Major Contract Courses	
300/400 Major Contract Course	3
300/400 Major Contract Course	3
300/400 Major Contract Course	3
300/400 Major Contract Course	3
300/400 Major Contract Course	3
Electives	
300/400 Interdisciplinary Major Elective	3
300/400 Interdisciplinary Major Elective	3
400 Interdisciplinary Major Elective (Capstone)	3
300/400 Free Elective	3
300/400 Free Elective	3
300/400 Free Elective	3

Major Information

- The total number of free electives will depend on the amount of double and triple counting of requirements.
- See course attributes each semester for courses that meet multiple requirements.
- Questions about requirements should be directed to the College of Liberal Arts (304-696-2350). Core II and COLA requirements may not be double counted.
- Students must earn a *C* or better in ENG 201 Advanced Composition and all foreign language courses.
- Forty-eight credit hours (sixteen 3-hour courses) must be at the 300/400 level.
- Minimum of 120 hours to graduate.

The program consists of 33 hours of coursework in three parts:

- Three courses introducing the specific goals and methods of the three disciplines (9 hours). These courses place special emphasis on the particular discipline's approaches to knowledge, critical thought, skills of expression, and human development. Students must choose from those listed, one for each discipline.
- Department-Approved Courses (15 hours) to be chosen by the student, usually with the advice of a committee of faculty members. Each major may select a small advisory committee to assist with course selection, advising, and long-range planning.
- Three interdisciplinary, team-taught courses (9 hours), in any combination of levels, but including at least one at the 400 level as the senior capstone experience.

- General Education Course

- Milestone course: a key success marker for your major. See your advisor to discuss the importance of this course in your plan of study.

Four Year Plan

The Humanities major offers concentrations in Classics, Philosophy, and Religious Studies (CL/PHL/RST). This major is unique in two ways: Students may choose coursework equivalent to a major in a single department or create a broader curriculum of their choice from various humanities courses, and our program also has a strong interdisciplinary side. The goal of the program is to help us deepen our understanding of ourselves and our culture by exploring the way human beings find meaning in their experience. We explore these ways by studying both our own individual insights and the artistic, philosophical and religious works that have expressed and shaped human experience.

Course	Title	Credit Hours
First Year		
First Semester		
CMM 103	Fund Speech-Communication	3
ENG 101	Beginning Composition	3
FYS 100	First Yr Sem Critical Thinking	3
Core II Social Science		3
Core II Fine Arts		3
UNI 100	Freshman First Class	1
	Credit Hours	**16**
Second Semester		
ENG 201	Advanced Composition	3
Multicultural/International		3
Critical Thinking		3
MTH 121	Concepts and Applications (CT)	3
Core II Humanities: RST Intro Course		3
	Credit Hours	**15**
Second Year		
First Semester		
Core II Physical/Natural Science		4
300/400 COLA International		3
Foreign Language 101		3
PHL Introductory Course		3
COLA Social Science		3
	Credit Hours	**16**
Second Semester		
Writing Intensive		3

Foreign Language 102	3
COLA Social Science	3
300/400 COLA Humanities	3
CL Introductory Couse	3
Credit Hours	**15**

Third Year

First Semester

300/400 Interdisciplinary Major Elective	3
COLA Physical/Natural Science	4
300/400 Free Elective	3
300/400 COLA Multicultural	3
Foreign Language 203	3
Credit Hours	**16**

Second Semester

Writing Intensive	3
300/400 Major Contract Course	3
Foreign Language 204	3
300/400 COLA Social Science	3
300/400 Major Contract Course	3
Credit Hours	**15**

Fourth Year

First Semester

400 Interdisciplinary Major Elective (capstone)	3
300/400 COLA Literature	3
300/400 Major Contract Course	3
300/400 Free Elective	3
300/400 Free Elective	3
Credit Hours	**15**

Second Semester

300/400 Major Contract Course	3
300/400 Major Contract Course	3
300/400 Interdisciplinary Major Elective	3
COLA Literature	3
Credit Hours	**12**
Total Credit Hours	**120**

Latin, B.A.

- General Education Course

- Milestone course: a key success marker for your major. See your advisor to discuss the importance of this course in your plan of study.

Major

The Core Curriculum is designed to foster critical thinking skills and introduce students to basic domains of thinking that transcend disciplines. The Core applies to all majors. Information on specific classes in the Core can be found at https://www.marshall.edu/gened/.

Code	Title	Credit Hours
Core Curriculum		
Core 1: Critical Thinking		
FYS 100	First Yr Sem Critical Thinking	3
MTH 121	Concepts and Applications (CT)	3
Critical Thinking Course		3
Core 2		
ENG 101	Beginning Composition	3
ENG 201	Advanced Composition	3
CMM 103	Fund Speech-Communication	3
MTH 121	Concepts and Applications (CT)	3
Core II Natural/Physical Science		4
Core II Humanities		3
Core II Social Science		3
Core II Fine Arts		3
Additional University Requirements		
Writing Intensive		3
Writing Intensive		3
Multicultural or International		3
LAT 499	Latin Capstone Experience	3
College-Specific		
LAT 101	First Year Latin	3
LAT 102	First Year Latin	3
LAT 203	Intermediate Latin	3
LAT 204	Intermediate Latin	3
300/400 COLA Literature		3
300/400 COLA Literature		3
300/400 COLA Humanities		3
300/400 COLA Social Science		3
300/400 COLA Social Science		3
COLA Social Science		3
COLA Natural/Physical Science		4
300/400 International Credit		3
300/400 Multicultural Credit		3
Major-Specific		
LAT 101	First Year Latin	3
LAT 102	First Year Latin	3
LAT 203	Intermediate Latin	3
LAT 204	Intermediate Latin	3
CL 436	Roman Civilization (or equivalent)	3
300/400 LAT Elective		3
300/400 LAT Elective		3
300/400 LAT Elective		3
300/400 LAT Elective		3
300/400 LAT Elective		3
Latin Capstone Experience		
The student works with a project director to develop a paper written in an advanced Latin class into an expanded version that incorporates primary and secondary sources, and will be delivered in a public forum.		
LAT 499	Latin Capstone Experience	3
300/400 Free Elective		3
300/400 Free Elective		3
Free Elective		3

Free Elective	3
Free Elective	3

Major Information

- The total number of free electives will depend on the amount of double and triple counting of requirements.
- See course attributes each semester for courses that meet multiple requirements.
- Questions about requirements should be directed to the College of Liberal Arts (304-696-2350). Core II and COLA requirements may not be double counted.
- Students must earn a *C* or better in ENG 201 Advanced Composition and all foreign language courses.
- Forty-eight credit hours (sixteen 3-hour courses) must be at the 300/400 level.
- Minimum of 120 hours to graduate.
- The B.A. in Latin can be acquired through the College of Liberal Arts. The degree consists of CL 436 Roman Civilization or equivalent and thirty hours of Latin, eighteen of which must be above LAT 204 Intermediate Latin.
- In addition to the specific major requirements, students must fulfill the general and specific requirements for the B.A. degree in the College of Liberal Arts and must demonstrate a proficiency in writing through examination by the department.

- General Education Course

- Milestone course: a key success marker for your major. See your advisor to discuss the importance of this course in your plan of study.

Four Year Plan

The study of foreign languages emphasizes the development of critical thinking skills—increased powers of observation, analysis, logical reasoning, memory, and adaptability—that are immediately transferable to other areas of higher education and to a diversity of careers. In learning to understand, speak, read, and write a foreign language a student acquires direct access to another view of the world at a time when intercultural understanding, at both the national and international levels, has become an urgent priority.

Course	Title	Credit Hours
First Year		
First Semester		
LAT 101	First Year Latin	3
CMM 103	Fund Speech-Communication	3
ENG 101	Beginning Composition	3
FYS 100	First Yr Sem Critical Thinking	3
Core II Social Science		3
UNI 100	Freshman First Class	1
	Credit Hours	**16**
Second Semester		
LAT 102	First Year Latin	3
ENG 201	Advanced Composition	3
MTH 121	Concepts and Applications (CT)	3
Core I Critical Thinking		3
Multicultural/International		3
	Credit Hours	**15**
Second Year		
First Semester		
LAT 203	Intermediate Latin	3
Core II Physical/Natural Science		4
Writing Intensive		3
Critical Thinking		3
COLA Social Science		3
	Credit Hours	**16**
Second Semester		
LAT 204	Intermediate Latin	3
300/400 LAT Elective		3
Core II Fine Arts		3
Core II Humanities (WI)		3
300/400 COLA Social Science		3
	Credit Hours	**15**
Third Year		
First Semester		
300/400 LAT Elective		3
COLA Physical/Natural Science		4
300-400 COLA International		3
300-400 COLA Multicultural		3
Free Elective		3
	Credit Hours	**16**
Second Semester		
300/400 LAT Elective		3
300/400 COLA Social Science		3
Writing Intensive		3
Free Elective		3
Free Elective		3
	Credit Hours	**15**
Fourth Year		
First Semester		
LAT 499	Latin Capstone Experience	3
300/400 LAT Elective		3
300/400 COLA Literature		3
300/400 Free Elective		3
300/400 Free Elective		3
	Credit Hours	**15**
Second Semester		
CL 436	Roman Civilization (or equivalent)	3
300/400 LAT Elective		3
300/400 COLA Literature		3
300/400 COLA Humanities		3
	Credit Hours	**12**
	Total Credit Hours	**120**

Latin, Minor

A minor in Latin consists of:

Code	Title	Credit Hours
Select twelve hours of Latin, nine of which must be above the 100 level		12
Select one 400-level course taught in English of the following:		3
CL 436	Roman Civilization	
CL 471	Ancient Sexuality (by permission of chair)	
CL 472	Rhetoric of Seduction	
CL 473	Body, Sex and Violence in Rome	
CL 475	Roman Law	
Total Credit Hours		**15**

Philosophy, Minor

A minor in Philosophy consists of 15 hours.

Religious Studies, Minor

A minor in Religious Studies consists of 15 hours.

Interdisciplinary

Programs

- Addiction Studies, Minor (p. 383)
- African and African American Studies, Minor (p. 383)
- Asian Studies, Minor (p. 384)
- Constitutional Democracy, Minor (p. 384)
- Digital Humanities, Minor (p. 384)
- Film Studies, Minor (p. 385)
- Latin American Studies, Minor (p. 386)
- Sexuality Studies, Minor (p. 386)
- Women's and Gender Studies, Minor (p. 387)

Courses

- General Education Course

Anthropology

ANT 201 Cultural Anthropology (CT) **3 Credit hours**
Introduction to the scientific study of culture with emphasis on the cultures of small-scale societies. This class emphasizes critical thinking skills. Introduction to the scientific study of culture with emphasis on the cultures of small-scale societies. This class emphasizes critical thinking skills.
Attributes: Critical Thinking, International, Core II Social Sciences
Grade Mode: Normal Grading Mode

ANT 201H Cultural Anthropol Honors (CT) **3 Credit hours**
Introduction to the scientific study of culture with emphasis on the cultures of small-scale societies. This class emphasizes critical thinking skills. For the honors student. Introduction to the scientific study of culture with emphasis on the cultures of small-scale societies. This class emphasizes critical thinking skills. For the honors student.
Pre-req: Admitted Honors College with a score of 1.
Attributes: Critical Thinking, Honors, International, Core II Social Sciences
Grade Mode: Normal Grading Mode

ANT 280 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

ANT 281 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

ANT 282 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

ANT 283 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

ANT 301 Social Statistics **3 Credit hours**
Introduction to statistical analysis of social data. Introduction to statistical analysis of social data.
Grade Mode: Normal Grading Mode

ANT 322 Archaeology **3 Credit hours**
Introduction to the methods and theory of archaeology. Introduction to the methods and theory of archaeology.
Grade Mode: Normal Grading Mode

ANT 323 Archaeolog Field Train **3-6 Credit hours**
Supervised instruction in on-site archaeological data collection, survey and excavation techniques. Supervised instruction in on-site archaeological data collection, survey and excavation techniques.
Grade Mode: Normal Grading Mode

ANT 324 Archaeological Analysis **3 Credit hours**
Supervised instruction in processing and analyzing archaeological materials recovered by fieldwork. Supervised instruction in processing and analyzing archaeological materials recovered by fieldwork.
Pre-req: ANT 322.
Grade Mode: Normal Grading Mode

ANT 325 World Prehistory **3 Credit hours**
An introduction to the archaeology of pre-literate cultures, from the emergence of Homo Sapiens to the present. An introduction to the archaeology of pre-literate cultures, from the emergence of Homo Sapiens to the present.
Grade Mode: Normal Grading Mode

ANT 326 Classical Archaeology **3 Credit hours**
Archaeology of ancient Greece and Rome, and their colonies and imperial domains. Archaeology of ancient Greece and Rome, and their colonies and imperial domains.
Grade Mode: Normal Grading Mode

ANT 331 Physical Anthropology **3 Credit hours**
The study of human physical evolution, from the earliest hominins to the present day, based on the study of primatology, human genetics, and the paleontological record. The study of human physical evolution, from the earliest hominins to the present day, based on the study of primatology, human genetics, and the paleontological record.
Grade Mode: Normal Grading Mode

ANT 361 Ethnographic Research **3 Credit hours**
A project-based introduction to ethnographic research design and practice. A project-based introduction to ethnographic research design and practice.
Grade Mode: Normal Grading Mode

ANT 362 Health, Culture & Society **3 Credit hours**
A cross-cultural, historical, and bio-cultural examination through case-study of social and environmental factors that affect human health and disease.
Pre-req: ANT 201 or ANT 201H or SOC 200 or SOC 200H.
Attributes: Multicultural
Grade Mode: Normal Grading Mode

ANT 363 US Culture and the Family **3 Credit hours**
An historically and ethnographically informed consideration of the changing meaning and place of family and work in everyday American life, media, and politics. An historically and ethnographically informed consideration of the changing meaning and place of family and work in everyday American life, media, and politics.
Grade Mode: Normal Grading Mode

ANT 364 Expressive Culture **3 Credit hours**
Exploration of expressive cultural forms in the construction of personal and communal identities and their meaningful attachment to particular geographic places. Exploration of expressive cultural forms in the construction of personal and communal identities and their meaningful attachment to particular geographic places.
Attributes: Social Sciences
Grade Mode: Normal Grading Mode

ANT 365 Anthropology through Film **3 Credit hours**
Exploration of film as general anthropological field of interest with emphasis on understanding selected films as cultural texts and association with particular and changing cultural, political, economics and historical contexts. Exploration of film as general anthropological field of interest with emphasis on understanding selected films as cultural texts and association with particular and changing cultural, political, economics and historical contexts.
Grade Mode: Normal Grading Mode

ANT 371 Linguistic Anthropology **3 Credit hours**
Introduction to the theories and methodologies of linguistic anthropology and to language as a cultural phenomenon and form of diversity.
Attributes: International
Grade Mode: Normal Grading Mode

ANT 372 Methods in Language & Culture **3 Credit hours**
In this course, students will learn a variety of methods for studying language and culture used in anthropology, sociolinguistics, and applied linguistics by collecting and analyzing actual linguistic data
Grade Mode: Normal Grading Mode

ANT 402 Principles of GIS **4 Credit hours**
Introduction to Geographic Information Systems (GIS) principles, techniques, and applications for the social and natural sciences with emphasis on foundational geographic principles in a lecture/lab format. Introduction to Geographic Information Systems (GIS) principles, techniques, and applications for the social and natural sciences with emphasis on foundational geographic principles in a lecture/lab format.
Attributes: Digital Humanities
Grade Mode: Normal Grading Mode

ANT 411 Deconstructing Appalachia **3 Credit hours**
Exploration of the historical and cultural significance of Appalachia in the American experience and imagination.
Attributes: American Institutions
Grade Mode: Normal Grading Mode

ANT 412 Appalachian Field Exp I **3-6 Credit hours**
Supervised fieldwork in an Appalachian community studying the social and cultural characteristics of the area.
Pre-req: ANT 411.
Grade Mode: Normal Grading Mode

ANT 428 Arch Theory and Analysis **3 Credit hours**
An introduction to archaeological theory and its application to the material record of cultures, past and present.
Grade Mode: Normal Grading Mode

ANT 440 African Cultures **3 Credit hours**
Comparative analysis of the ethnic groups of Africa, using archaeological and ethnographic data.
Attributes: International
Grade Mode: Normal Grading Mode

ANT 441 Oceania **3 Credit hours**
Comparative analysis of the indigenous peoples and cultures of Melanesia and Polynesia, using archaeological and ethnographic data.
Grade Mode: Normal Grading Mode

ANT 442 The Native Americans **3 Credit hours**
Comparative analysis of the indigenous inhabitants of North America, using archaeological and ethnographic data. PR: Six hours of anthropology or departmental permission. Comparative analysis of the indigenous inhabitants of North America, using archaeological and ethnographic data. PR: Six hours of anthropology or departmental permission.
Attributes: American Institutions
Grade Mode: Normal Grading Mode

ANT 445 American Ethnicities **3 Credit hours**
Comparative overview of historical and contemporary patterns of immigration, settlement, and inter-ethnic relations in the United States.
Attributes: International
Grade Mode: Normal Grading Mode

ANT 460 Crime and Custom **3 Credit hours**
This course examines law and legal processes in diverse cultures from anthropological and law and society perspectives.
Attributes: Multicultural
Grade Mode: Normal Grading Mode

ANT 464 Design, Planning & Health **3 Credit hours**
Social scientific study of how places where people live, work, and recreate affect quality of life and overall health with an emphasis on design decisions within urban and regional planning.
Attributes: Digital Humanities, Multicultural
Grade Mode: Normal Grading Mode

ANT 465 Disaster, Culture & Health **3 Credit hours**
Study of contemporary environmental and social problems emphasizing health impacts of natural and technological disasters on communities around the world.
Attributes: Digital Humanities, International
Grade Mode: Normal Grading Mode

ANT 466 Culture and Environment **3 Credit hours**
This course will examine the symbolic and structural dimensions of struggles over defining, organizing, and controlling the natural environment from biocultural perspective.
Attributes: International
Grade Mode: Normal Grading Mode

ANT 467 Culture in Ethnographies **3 Credit hours**
In depth exploration and comparison of diverse cultural groups through reading and discussing ethnographic texts. PR: Six credit hours of anthropology or departmental permission. In depth exploration and comparison of diverse cultural groups through reading and discussing ethnographic texts. PR: Six credit hours of anthropology or departmental permission.
Attributes: International
Grade Mode: Normal Grading Mode

ANT 468 National Identity **3 Credit hours**
Exploration of cultural, political and economic processes that contribute to creation and maintenance of the modern national state as an imagined community.
Grade Mode: Normal Grading Mode

ANT 472 Language, Gender and the Body **3 Credit hours**
Uses methods and theories from anthropology, linguistics, and sociology to examine how gendered bodies in different cultures are constructed through ways of acting in the world.
Attributes: Multicultural
Grade Mode: Normal Grading Mode

ANT 478 Intro to Sociolinguistics **3 Credit hours**
Sociolinguistics is the study of the effects of language in society relevant to discourse practices, language attitudes, variations, shifts and changes.
Pre-req: ENG 102 or ENG 302 or ENG 201H.
Grade Mode: Normal Grading Mode

ANT 480 Special Topics **1-4 Credit hours**
Study of topics of interest not covered in regularly scheduled courses.
Grade Mode: Normal Grading Mode

ANT 481 Special Topics **1-4 Credit hours**
Study of topics of interest not covered in regularly scheduled courses.
Grade Mode: Normal Grading Mode

ANT 482 Special Topics **1-4 Credit hours**
Study of topics of interest not covered in regularly scheduled courses.
Grade Mode: Normal Grading Mode

ANT 483 Special Topics **1-4 Credit hours**
Study of topics of interest not covered in regularly scheduled courses. Study of topics of interest not ccovered in regularly scheduled courses. PR: Six credit hours of anthropology or deparmental permission.
Grade Mode: Normal Grading Mode

ANT 485 Independent Study **1-4 Credit hours**
Individual study of topics not offered in regularly scheduled courses. Advance permission required. Individual study of topics not offered in regularly scheduled courses. Advance permission required.
Grade Mode: Normal Grading Mode

ANT 486 Independent Study **1-4 Credit hours**
Individual study of topics not offered in regularly scheduled courses. Advance permission required. Individual study of topics not offered in regularly scheduled courses. Advance permission required.
Grade Mode: Normal Grading Mode

ANT 487 Independent Study **1-4 Credit hours**
Individual study of topics not offered in regularly scheduled courses. Advance permission required. Individual study of topics not offered in regularly scheduled courses. Advance permission required.
Grade Mode: Normal Grading Mode

ANT 488 Independent Study **1-4 Credit hours**
Individual study of topics not offered in regularly scheduled courses. Advance permission required. Individual study of topics not offered in regularly scheduled courses. Advance permission required.
Grade Mode: Normal Grading Mode

ANT 489 Internship **1-4 Credit hours**
Supervised practicum founded on anthropological knowledge in a host institution. 40-45 hours of internship work correspond with 1 credit hour.
Grade Mode: Normal Grading Mode

ANT 491 Theory in Ethnology **3 Credit hours**
Introduction to major theoretical traditions of cultural anthropology with emphasis on the connection between fieldwork and development of theory.
Attributes: Multicultural
Grade Mode: Normal Grading Mode

ANT 492 Senior Seminar I **3 Credit hours**
Application of anthropological theory and practice to individually designed projects. This course fulfills the capstone requirement for undergraduate anthropology majors.
Grade Mode: Normal Grading Mode

ANT 493 Senior Seminar II **3 Credit hours**
Application of anthropological theory and practice to individually designed projects. Fulfills the capstone requirement for undergraduate majors.
Attributes: Capstone Course
Grade Mode: Normal Grading Mode

Classics

CL 200 Building English Vocab **3 Credit hours**
Study of Latin and Greek word elements to build skill in English vocabulary, both general and technical (or scientific-medical). Study of Latin and Greek word elements to build skill in English vocabulary, both general and technical (or scientific-medical).
Grade Mode: Normal Grading Mode

CL 210 Love/War Ancient World (CT) **3 Credit hours**
Taught in English, this course examines the themes of love and war in Greek and Roman poetry and prose. Taught in English, this course examines the themes of love and war in Greek and Roman poetry and prose.
Attributes: Critical Thinking, Core II Humanities
Grade Mode: Normal Grading Mode

CL 230 Greek & Roman Epic **3 Credit hours**
Introduction to the genre of ancient epic through reading Homer's Iliad and Odyssey and Vergil's Aeneid (or other ancient epics). Introduction to the genre of ancient epic through reading Homer's Iliad and Odyssey and Vergil's Aeneid (or other ancient epics).
Pre-req: ENG 101 with a minimum grade of C or YGS 161 with a minimum grade of C or ENG 101P with a minimum grade of C or ENG 200H with a minimum grade of C or ENG 201H with a minimum grade of C or ENG 200 with a minimum grade of C.
Attributes: Core II Humanities, Literature, Multicultural
Grade Mode: Normal Grading Mode

CL 231 Women in Greek & Roman Lit **3 Credit hours**
Taught in English, a thematic study of women in Greek and Roman literature focusing on how a culture's attitudes towards women reflect social, political or ethnic concerns.
Pre-req: ENG 200H with a minimum grade of C or ENG 201H with a minimum grade of C or ENG 201 with a minimum grade of C.
Attributes: Core II Humanities, Literature, Multicultural
Grade Mode: Normal Grading Mode

CL 232 Greek & Roman Drama (CT) **3 Credit hours**
Introduction to Greek and Roman dramatic genres of tragedy and comedy using selected plays of Aeschylus, Sophocles, Euripides, Aristophanes, Seneca, Plautus, and Terence. Introduction to Greek and Roman dramatic genres of tragedy and comedy using selected plays of Aeschylus, Sophocles, Euripides, Aristophanes, Seneca, Plautus, and Terence.
Pre-req: ENG 101 with a minimum grade of C or YGS 161 with a minimum grade of C or ENG 101P with a minimum grade of C.
Attributes: Critical Thinking, Core II Humanities, Literature, Multicultural
Grade Mode: Normal Grading Mode

CL 233 Greek & Roman Historians (CT) **3 Credit hours**
Thematic study of Greek and Roman historiography by topic as much as by historian, including ancient rehtorical sources on the theory of history. Thematic study of Greek and Roman historiography by topic as much as by historian, including ancient rehtorical sources on the theory of history.
Pre-req: ENG 101 or YGS 161.
Attributes: Critical Thinking, Core II Humanities, Literature, Multicultural
Grade Mode: Normal Grading Mode

CL 234 Greek & Roman Poetry (CT) **3 Credit hours**
Taught in English, this course examines three periods of Greek and Roman poetry: the Archaic and Hellenistic Ages of Greece and the Golden Age of Rome. Taught in English, this course examines three periods of Greek and Roman poetry: the Archaic and Hellenistic Ages of Greece and the Golden Age of Rome.
Attributes: Critical Thinking, Core II Humanities, Literature, Multicultural
Grade Mode: Normal Grading Mode

CL 236 Murder in Ancient World (CT) **3 Credit hours**
Taught in English, this is a tehmatic study of the topic of murder as it appears in the genres of tragedy, oratory and history.
Pre-req: ENG 101 or YGS 161 or ENG 101E or ENG 201H or IST 101 or ENG 101P.
Attributes: Critical Thinking, Core II Humanities, Literature, Multicultural
Grade Mode: Normal Grading Mode

CL 237 Lit in the Time of Nero (CT) **3 Credit hours**
Taught in English this course examines the literature of the first century, CE, and includes the writings of Lucan, Petronius, Seneca, Martial, Juvenal and Tacitus. Taught in English this course examines the literature of the first century, CE, and includes the writings of Lucan, Petronius, Seneca, Martial, Juvenal and Tacitus.
Pre-req: ENG 101 with a minimum grade of D or ENG 101P with a minimum grade of D or ENG 200H with a minimum grade of D or ENG 201H with a minimum grade of D.
Attributes: Critical Thinking, Core II Humanities, Literature, Multicultural
Grade Mode: Normal Grading Mode

CL 250 Humanities and Film (CT) **3 Credit hours**
An interdisciplinary course to introduce students to the elements of a humanistic education through study of film. (Same as Philosophy 250 and Religious Studies 250; PR or CR: ENG 101)
Pre-req: ENG 101 (may be taken concurrently) with a minimum grade of C or ENG 200H (may be taken concurrently) with a minimum grade of C or ENG 201H (may be taken concurrently) with a minimum grade of C or ENG 101P (may be taken concurrently) with a minimum grade of C.
Concurrent PR: ENG 101 or ENG 200H or ENG 201H or ENG 101P
Attributes: Critical Thinking, Core II Humanities, Literature, Multicultural
Grade Mode: Normal Grading Mode

CL 280 Special Topics **1-4 Credit hours**
Selected topics not covered in regular course offerings. Selected topics not covered in regular course offerings.
Grade Mode: Normal Grading Mode

CL 281 Special Topics **1-4 Credit hours**
Selected topics not covered in regular course offerings. Selected topics not covered in regular course offerings.
Grade Mode: Normal Grading Mode

CL 282 Special Topics **1-4 Credit hours**
Selected topics not covered in regular course offerings. Selected topics not covered in regular course offerings.
Grade Mode: Normal Grading Mode

CL 283 Special Topics **1-4 Credit hours**
Selected topics not covered in regular course offerings. Selected topics not covered in regular course offerings.
Grade Mode: Normal Grading Mode

CL 319 Classical Mythology **3 Credit hours**
Study of the development of myth in ancient Greece and Rome; its place in ancient culture and its survival in the modern world. Study of the development of myth in ancient Greece and Rome; its place in ancient culture and its survival in the modern world.
Pre-req: ENG 101 with a minimum grade of C or YGS 161 with a minimum grade of C or ENG 101P with a minimum grade of C.
Attributes: Multicultural
Grade Mode: Normal Grading Mode

CL 320 Anc Grk Love & Friendship **3 Credit hours**
A literary survey of ancient Greco-Roman love and friendship as shaped by family, marriage, religion, philosophy and politics. Ancient and modern texts read.
Pre-req: ENG 101 or YGS 161.
Grade Mode: Normal Grading Mode

CL 326 Classical Archaeology **3 Credit hours**
Archaeology of ancient Greece and Rome, and their colonies and their imperial domains. Same as ANT 370. Archaeology of ancient Greece and Rome, and their colonies and their imperial domains. Same as ANT 370.
Grade Mode: Normal Grading Mode

CL 390 Junior Seminar in Humanities **3 Credit hours**
A structured interdisciplinary study offered by the departments of Classics, Philosophy, and Religious Studies in the foundations of human thought, myth, literature, religion, philosophy, art. (Same as Philosophy 390-394 and Religious Studies 390-394)
Pre-req: ENG 201 with a minimum grade of C or ENG 201H with a minimum grade of C or YGS 162 with a minimum grade of C or IST 201 with a minimum grade of D or CL 231 with a minimum grade of D or CL 232 with a minimum grade of D or CL 233 with a minimum grade of D or PHL 200 with a minimum grade of D or PHL 201 with a minimum grade of D or PHL 303 with a minimum grade of D or PHL 321 with a minimum grade of D or PHL 340 with a minimum grade of D or PHL 353 with a minimum grade of D or RST 205 with a minimum grade of D or RST 206 with a minimum grade of D or RST 300 with a minimum grade of D or RST 304 with a minimum grade of D or RST 320 with a minimum grade of D or RST 325 with a minimum grade of D.
Grade Mode: Normal Grading Mode

CL 391 Junior Seminar in Humanities **3 Credit hours**
A structured interdisciplinary study offered by the departments of Classics, Philosophy, and Religious Studies in the foundations of human thought, myth, literature, religion, philosophy, art. (Same as Philosophy 390 - 394 and Religious Studies 390 - 394)
Pre-req: ENG 102 or ENG 302 or ENG 201H or YGS 162 or IST 201 or CL 231 or CL 232 or CL 233 or CL 319 or PHL 200 or PHL 201 or PHL 303 or PHL 321 or PHL 340 or PHL 353 or RST 205 or RST 206 or RST 300 or RST 304 or RST 320 or RST 325 or ENG 201.
Grade Mode: Normal Grading Mode

CL 392 Junior Seminar **3 Credit hours**
A structured interdisciplinary study offered by the department of Classics, Philosophy, and Religious Studies in the foundations of human thought, myth, literature, regligion, philosophy, art. (Same as Philosophy 390 - 394 and Religious Studies 390 - 394)
Pre-req: ENG 102 or ENG 302 or ENG 201H or YGS 162 or IST 201 or CL 231 or CL 232 or CL 233 or CL 319 or PHL 200 or PHL 201 or PHL 303 or PHL 321 or PHL 340 or PHL 353 or RST 205 or RST 206 or RST 300 or RST 304 or RST 320 or RST 325 or ENG 201.
Grade Mode: Normal Grading Mode

CL 393 Junior Seminar in Humanities **3 Credit hours**
A structured interdisciplinary study offered by the departments of Classics, Philosophy, and Religious Studies in the foundations of human thought, myth, literature, religion, philosophy, art. (Same as Philosophy 390 - 394 and Religious Studies 390 - 394)
Pre-req: ENG 102 with a minimum grade of D or ENG 302 with a minimum grade of D or ENG 201H with a minimum grade of D or YGS 162 with a minimum grade of D or IST 201 with a minimum grade of D or CL 231 with a minimum grade of D or CL 232 with a minimum grade of D or CL 233 with a minimum grade of D or CL 319 with a minimum grade of D or PHL 200 with a minimum grade of D or PHL 201 with a minimum grade of D or PHL 303 with a minimum grade of D or PHL 321 with a minimum grade of D or PHL 340 with a minimum grade of D or PHL 353 with a minimum grade of D or RST 205 with a minimum grade of D or RST 206 with a minimum grade of D or RST 300 with a minimum grade of D or RST 304 with a minimum grade of D or RST 320 with a minimum grade of D or RST 325 with a minimum grade of D or ENG 201 with a minimum grade of D.
Grade Mode: Normal Grading Mode

CL 394 Junior Seminar in Humantities **3 Credit hours**
A structured interdisciplinary study offered by the departments of Classics, Philosophy, and Religious Studies in the foundations of human thought, myth, literature, religion, philosophy, art. (Same as Philosophy 390 - 394 and Religious Studies 390 - 394)
Pre-req: ENG 102 or ENG 302 or ENG 201H or YGS 162 or IST 201 or CL 231 or CL 232 or CL 233 or CL 319 or PHL 200 or PHL 201 or PHL 303 or PHL 321 or PHL 340 or PHL 353 or RST 205 or RST 206 or RST 300 or RST 304 or RST 320 or RST 325 or ENG 201.
Grade Mode: Normal Grading Mode

CL 435 Greek Civilization **3 Credit hours**
Study of ancient Greek culture, emphasizing parallels with present-day issues. Study of ancient Greek culture, emphasizing parallels with present-day issues.
Pre-req: ENG 101 or YGS 161.
Grade Mode: Normal Grading Mode

CL 436 Roman Civilization **3 Credit hours**
Study of ancient Roman culture, emphasizing parallels with present-day issues. Study of ancient Roman culture, emphasizing parallels with present-day issues.
Pre-req: ENG 101 or YGS 161.
Grade Mode: Normal Grading Mode

CL 460 Ancient Goddess Religions **3 Credit hours**
Study of the mythology and cults of the goddesses of Greece, Grete, Asia Minor, Crete and Rome, with a view to discovering cultural contexts. Study of the mythology and cults of the goddesses of Greece, Grete, Asia Minor, Crete and Rome, with a view to discovering cultural contexts.
Grade Mode: Normal Grading Mode

CL 470 Transformations of Myth **3 Credit hours**
An examination of how ancient myth transforms into the psychological and fictional works of more modern times. An examination of how ancient myth transforms into the psychological and fictional works of more modern times.
Grade Mode: Normal Grading Mode

CL 471 Ancient Sexuality **3 Credit hours**
A comprehensive study of current theories about Greek and/or Roman sexualities and evaluation of the evidence, textual and otherwise, to which these theories apply.
Pre-req: ENG 102 or ENG 302 or ENG 201H or ENG 201.
Grade Mode: Normal Grading Mode

CL 472 Rhetoric of Seduction **3 Credit hours**
Taught in English, this course investigates the overlap of public and private persuasion through reading philosophical, political and romantic works, and analyzing contemporary campaigns. Taught in English, this course investigates the overlap of public and private persuasion through reading philosophical, political and romantic works, and analyzing contemporary campaigns.
Grade Mode: Normal Grading Mode

CL 473 Body, Sex and Violence in Rome **3 Credit hours**
This course explores the gross violation of the boundaries of the Roman body sexually, politically and socially, and how the symbolizes a breakdown of identity, personally and nationally.
Pre-req: ENG 101 with a minimum grade of C or ENG 101P with a minimum grade of C or ENG 200H with a minimum grade of C or ENG 201H with a minimum grade of C or ENG 201 with a minimum grade of C.
Grade Mode: Normal Grading Mode

CL 475 Roman Law **3 Credit hours**
Taught in English, this course provides an introduction to basic tenets of Roman law with particular attention to court cases and speeches. Taught in English, this course provides an introduction to basic tenets of Roman law with particular attention to court cases and speeches.
Grade Mode: Normal Grading Mode

CL 476 Rome: The Eternal City **6 Credit hours**
On-site study of the archaeology and material culture of ancient Rome in its social, literary and historical context. Taught in English in Rome, Italy. (Students fund their own travel)
Pre-req: ENG 101 or ENG 101P or ENG 160 or ENG 200H and CL 436.
Grade Mode: Normal Grading Mode

CL 477 RTTP: Greece and Rome **3 Credit hours**
Reacting to the Past: Greece and Rome is a semester long game/simulation where students play historical characters in Athens in 403BC then in Rome just after Julius Caesar's assassination.
Pre-req: (ENG 101 with a minimum grade of D or ENG 101P with a minimum grade of D or ENG 200H with a minimum grade of D or ENG 201H with a minimum grade of D) and CMM 103 with a minimum grade of D.
Grade Mode: Normal Grading Mode

CL 480 Special Topics **1-4 Credit hours**
Topics like "Values in Ancient Greece/Rome" or "The Cult of the Leader in Ancient Greece/Rome" have recently been offered. Consult chairman for current offerings. Topics like "Values in Ancient Greece/Rome" or "The Cult of the Leader in Ancient Greece/Rome" have recently been offered. Consult chairman for current offerings.
Pre-req: ENG 101 or YGS 161.
Grade Mode: Normal Grading Mode

CL 481 Special Topics **1-4 Credit hours**
Topics like"Values in Ancient Greece/Rome" or "The Cult of the Leader in Ancient Greece/Rome" have recently been offered. Consult chairman for current offerings. Topics like"Values in Ancient Greece/Rome" or "The Cult of the Leader in Ancient Greece/Rome" have recently been offered. Consult chairman for current offerings.
Pre-req: ENG 101 or YGS 161.
Grade Mode: Normal Grading Mode

CL 482 Special Topics **1-4 Credit hours**
Pre-req: ENG 101 or YGS 161.
Grade Mode: Normal Grading Mode

CL 483 Special Topics **1-4 Credit hours**
Topics like "Values in Ancient Greece/Rome" or "The Cult of the Leader in Ancient Greece/Rome" have recently been offered. Consult chairman for current offerings. Topics like "Values in Ancient Greece/Rome" or "The Cult of the Leader in Ancient Greece/Rome" have recently been offered. Consult chairman for current offerings.
Pre-req: ENG 101 or YGS 161.
Grade Mode: Normal Grading Mode

CL 485 Independent Study **1-4 Credit hours**
Grade Mode: Normal Grading Mode

CL 486 Independent Study **1-4 Credit hours**
Grade Mode: Normal Grading Mode

CL 487 Independent Study **1-4 Credit hours**
Grade Mode: Normal Grading Mode

CL 488 Independent Study **1-4 Credit hours**
Grade Mode: Normal Grading Mode

CL 490 Senior Seminar in Humanities **3 Credit hours**
Designed for majors as a senior humanities seminar and the culminating interdisciplinary study in the Humanities program. (Same as Philosophy 490 -494 and Religious Studies 490 - 494)
Pre-req: ENG 102 with a minimum grade of D or ENG 302 with a minimum grade of D or ENG 201H with a minimum grade of D or YGS 162 with a minimum grade of D or IST 201 with a minimum grade of D or CL 231 with a minimum grade of D or CL 232 with a minimum grade of D or CL 233 with a minimum grade of D or CL 319 with a minimum grade of D or PHL 200 with a minimum grade of D or PHL 201 with a minimum grade of D or PHL 303 with a minimum grade of D or PHL 321 with a minimum grade of D or PHL 340 with a minimum grade of D or PHL 353 with a minimum grade of D or RST 205 with a minimum grade of D or RST 206 with a minimum grade of D or RST 300 with a minimum grade of D or RST 304 with a minimum grade of D or RST 320 with a minimum grade of D or RST 325 with a minimum grade of D or ENG 201 with a minimum grade of D.
Grade Mode: Normal Grading Mode

CL 492 Senior Seminar in Humanities **3 Credit hours**
Designed for majors as a senior humanities seminar and the culminating interdisciplinary study in the Humanities program. (Same as Philosophy 490 -494 and Religious Studies 490 -494)
Pre-req: ENG 102 or ENG 302 or ENG 201H or YGS 162 or IST 201 or CL 231 or CL 232 or CL 233 or CL 319 or PHL 200 or PHL 201 or PHL 303 or PHL 321 or PHL 340 or PHL 353 or RST 205 or RST 206 or RST 300 or RST 304 or RST 320 or RST 325 or ENG 201.
Grade Mode: Normal Grading Mode

CL 493 Senior Seminar in Humanities **3 Credit hours**
Designed for majors as a senior humanities seminar and the culminating interdisciplinary study in the Humanities program. (Same as Philosophy 490 -494 and Religious Studies 490 -494)
Pre-req: ENG 102 or ENG 302 or ENG 201H or YGS 162 or IST 201 or CL 231 or CL 232 or CL 233 or CL 319 or PHL 200 or PHL 201 or PHL 303 or PHL 321 or PHL 340 or PHL 353 or RST 205 or RST 206 or RST 300 or RST 304 or RST 320 or RST 325 or ENG 201.
Grade Mode: Normal Grading Mode

CL 494 Senior Seminar in Humanities **3 Credit hours**
Designed for majors as a senior humanities seminar and the culminating interdisciplinary study inthe Humanities program. (Same as Philosophy 490 -494 and Religious Studies 490 - 494)
Pre-req: ENG 102 or ENG 302 or ENG 201H or YGS 162 or IST 201 or CL 231 or CL 232 or CL 233 or CL 319 or PHL 200 or PHL 201 or PHL 303 or PHL 321 or PHL 340 or PHL 353 or RST 205 or RST 206 or RST 300 or RST 304 or RST 320 or RST 325 or ENG 201.
Grade Mode: Normal Grading Mode

Communication Studies

CMM 103 Fund Speech-Communication **3 Credit hours**
A course designed to enhance the development of critical thinking skills and their application to verbal and nonverbal interaction in interpersonal and public communication contexts. A course designed to enhance the development of critical thinking skills and their application to verbal and non- verbal interaction in interpersonal and public communication contexts.
Attributes: Core II Communication Studies
Grade Mode: Normal Grading Mode

CMM 104H Honors in Speech Comm **3 Credit hours**
An accelerated course for selected freshmen and sophomores in fundamentals of communication, concepts and skills in verbal/ nonverbal communication and listening. Not open to juniors and seniors. An accelerated course for selected freshmen and sophomores in fundamentals of communication, concepts and skills in verbal/ nonverbal communication and listening. Not open to juniors and seniors.
Attributes: Core II Communication Studies
Grade Mode: Normal Grading Mode

CMM 201 Communication Foundations (CT) **3 Credit hours**
Develops essential skills in reading and critically analyzing scholarly texts, and in writing academic papers. Develops essential skills in reading and critically analyzing scholarly texts, and in writing academic papers.
Attributes: Critical Thinking
Grade Mode: Normal Grading Mode

CMM 205 The Rhetorical World (CT) **3 Credit hours**
An introduction to the study of rhetoric as a cultural force influencing human behavior and societies and as a critical approach to interpreting cultural artifacts. An introduction to the study of rhetoric as a cultural force influencing human behavior and societies and as a critical approach to interpreting cultural artifacts.
Attributes: Critical Thinking, Core II Humanities
Grade Mode: Normal Grading Mode

CMM 207 Bus & Prof Communication **3 Credit hours**
A study of the communication demands and skills relevant to the student's future role as a business or professional person. A study of the communication demands and skills relevant to the student's future role as a business or professional person.
Attributes: Core II Communication Studies
Grade Mode: Normal Grading Mode

CMM 213 Fund Interpersonal Com **3 Credit hours**
Introduction to principles and practices related to productive interpersonal communication. Emphasizes competence in using verbal and nonverbal message systems to promote effective communication in social and task relationships.
Attributes: Core II Social Sciences
Grade Mode: Normal Grading Mode

CMM 239 Dev & Appreciation of Film **3 Credit hours**
The historical development of the motion picture as an art form. Analysis of the technical, social, economic and cultural factors which have influenced the medium.
Attributes: Core II Humanities
Grade Mode: Normal Grading Mode

CMM 255 Intro Computer-Comm **3 Credit hours**
Use and implications of telecomputing for messaging, resource finding, and self-directed discovery lerning. Use and implications of telecomputing for messaging, re- source finding, and self-directed discovery lerning.
Attributes: Digital Humanities, Core II Social Sciences
Grade Mode: Normal Grading Mode

CMM 270 Intercollegiate Debate **1 Credit hour**
(PR: Permission of instructor). May be repeated 3 times for credit.
Grade Mode: Normal Grading Mode

CMM 271 Intercollegiate Debate **1 Credit hour**
(PR: Permission of instructor). May be repeated 3 times for credit.
Grade Mode: Normal Grading Mode

CMM 280 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

CMM 281 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

CMM 282 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

CMM 283 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

CMM 298 Itv **1-4 Credit hours**
A course based upon Instructional Television Series broadcast by public television. The student is repsonsible for viewing the series on the air and satisfying all course requirements announced by the department. A course based upon Instructional Television Series broad- cast by public television. The student is repsonsible for viewing the series on the air and satisfying all course re- quirements announced by the department.
Grade Mode: Normal Grading Mode

CMM 302 Professional Presentations **3 Credit hours**
Designed for present and future demands on skilled presenters of information. Included in the teaching of advanced oral presentation skills, computer assisted/ aided presentations, teleconferencing and other presentational skills. Designed for present and future demands on skilled presenters of information. Included in the teaching of advanced oral presentation skills, computer assisted/ aided presentations, teleconferencing and other presentational skills.
Pre-req: CMM 103 with a minimum grade of D or CMM 104H with a minimum grade of D or CMM 207 with a minimum grade of D or YGS 161 with a minimum grade of D or IST 101 with a minimum grade of D.
Grade Mode: Normal Grading Mode

CMM 303 Intro Communication Thry **3 Credit hours**
Analysis of the process of communication and its constituent elements, with emphasis upon traditional and contemporary theories, their validation, and their use as a tool in diagnosis and remediation of communication problems. Analysis of the process of communication and its constituent elements, with emphasis upon traditional and contemporary theories, their validation, and their use as a tool in diagnosis and remediation of communication problems.
Pre-req: CMM 103 or CMM 104H or CMM 207 or CMM 305 or YGS 161 or IST 101.
Grade Mode: Normal Grading Mode

CMM 307 Political Communication **3 Credit hours**
Investigation of the functions, ethics, responsibilities and social impact of oral communication in periods of social unrest and/or political change. Investigation of the functions, ethics, responsibilities and social impact of oral communication in periods of social unrest and/or political change.
Pre-req: CMM 103 or CMM 104H or CMM 207 or CMM 305 or YGS 161 or IST 101.
Grade Mode: Normal Grading Mode

CMM 308 Persuasive Communication **3 Credit hours**
Introduction to the understanding, practice and analysis of persuasion. Behavioral and rhetorical theories of persuasion will be examined and applied to contemporary persuasive communications. Introduction to the understanding, practice and analysis of persuasion. Behavioral and rhetorical theories of persuas- ion will be examined and applied to contemporary persuasive communications.
Pre-req: CMM 103 with a minimum grade of D or CMM 104H with a minimum grade of D or CMM 207 with a minimum grade of D or YGS 161 with a minimum grade of D or IST 101 with a minimum grade of D.
Grade Mode: Normal Grading Mode

CMM 310 Argumentation & Debate **3 Credit hours**
Basic principles of agrument; practice in discussion and debate. Recommended but not a prerequisite for intercollegiate debating. Basic principles of agrument; practice in discussion and debate. Recommended but not a prerequisite for inter- collegiate debating.
Pre-req: CMM 103 or CMM 104H or CMM 207 or CMM 305 or YGS 161 or IST 101.
Grade Mode: Normal Grading Mode

CMM 311 Lang & Communication **3 Credit hours**
A method for studying the role which language plays in human affairs. A method for studying the role which language plays in human affairs.
Grade Mode: Normal Grading Mode

CMM 315 Group Communication **3 Credit hours**
Study of group communication processes, including problem solving, systems of group communication analysis and evaluation, in task oriented groups. Study of group communication processes, including problem solving, systems of group communication analysis and evaluation, in task oriented groups.
Pre-req: CMM 103 with a minimum grade of D or CMM 104H with a minimum grade of D or CMM 207 with a minimum grade of D or YGS 161 with a minimum grade of D or IST 101 with a minimum grade of D.
Grade Mode: Normal Grading Mode

CMM 316 Legal Communication **3 Credit hours**
The theory and practice of legal communication techniques. The course will examine interviewing skills, negotiation skills, argument preparation skills, presentation skills, and cross-examination skills. Recommended for pre-law students. The theory and practice of legal communication techniques. The course will examine interviewing skills, negotiation skills, argument preparation skills, presentation skills, and cross-examination skills. Recommended for pre-law students.
Pre-req: CMM 103 or CMM 104H or CMM 207 or YGS 161 or IST 101.
Grade Mode: Normal Grading Mode

CMM 319 Superior-Subordinate Comm **3 Credit hours**
Survey of principles underlying communication between superiors and subordinates in organizations. Emphasis placed upon communication strategies regarding role definition, performance feedback, development and maintenance of relationships, conflict management, leadership, decisionmaking. Survey of principles underlying communication between superiors and subordinates in organizations. Emphasis placed upon communication strategies regarding role defini- tion, performance feedback, development and maintenance of relationships, conflict management, leadership, decision- making.
Pre-req: CMM 103 with a minimum grade of D or CMM 104H with a minimum grade of D or CMM 207 with a minimum grade of D or YGS 161 with a minimum grade of D or IST 101 with a minimum grade of D.
Grade Mode: Normal Grading Mode

CMM 320 Oral Interpretation Lit **3 Credit hours**
The fundamentals of reading, analyzing, and interpreting literature. The fundamentals of reading, analyzing, and interpreting literature.
Grade Mode: Normal Grading Mode

CMM 322 Intercultural Communication **3 Credit hours**
A study of the barriers to communication across cultures and of strategies for addressing these problems.
Pre-req: CMM 103 with a minimum grade of D or CMM 104H with a minimum grade of D or CMM 207 with a minimum grade of D or CMM 213 with a minimum grade of D or YGS 161 with a minimum grade of D or IST 101 with a minimum grade of D.
Attributes: Multicultural
Grade Mode: Normal Grading Mode

CMM 330 Performance Theory **3 Credit hours**
The study of performance practices that function as enactments of cultural identity. Topics will include performance as a cultural process, performance in social roles, and performance as power.
Pre-req: CMM 103 or CMM 104H or CMM 207.
Attributes: Multicultural
Grade Mode: Normal Grading Mode

CMM 345 Listening & Feedback **3 Credit hours**
A study of listening/feedback behavior as an integral part of the communication process, development of listening/ feedback skills, and an awareness of barriers to effective listening and feedback. A study of listening/feedback behavior as an integral part of the communication process, development of listening/ feedback skills, and an awareness of barriers to effective listening and feedback.
Pre-req: CMM 103 or CMM 104H or CMM 207 or YGS 161 or IST 101.
Grade Mode: Normal Grading Mode

CMM 370 Intercollegiate Debate **1 Credit hour**
(PR: Permission of instructor). May be repeated 3 times for credit. Continuation of Speech 270-271.
Grade Mode: Normal Grading Mode

CMM 371 Intercollegiate Debate **1 Credit hour**
(PR: Permission of instructor). May be repeated 3 times for credit. Continuation of Speech 270-271.
Grade Mode: Normal Grading Mode

CMM 374 Intro to Health Communication **3 Credit hours**
Surveys interpersonal, public, and organizational health communication theories and findings; explores the communication demands of health care and promotion, communication issues in health systems, and strategies to resolve problems.
Grade Mode: Normal Grading Mode

CMM 401 Organization Communication **3 Credit hours**
Investigation of information flow in organizations with emphasis on identifying communication problems. Investigation of information flow in organizations with emphasis on identifying communication problems.
Pre-req: CMM 303 (may be taken concurrently).
Concurrent PR: CMM 303
Grade Mode: Normal Grading Mode

CMM 402 Rhetorical Theory **3 Credit hours**
An exploration of theories of rhetoric from the Greek philosophers to the present. This course will examine the strategic use of symbols in persuasive discourse. An exploration of theories of rhetoric from the Greek philosophers to the present. This course will examine the strategic use of symbols in persuasive discourse.
Grade Mode: Normal Grading Mode

CMM 403 Nonverbal Communication **3 Credit hours**
This course will explore the areas and significance of nonverbal communication as they relate to the quality and effectiveness of human interaction in personal, social, and professional relationships. This course will explore the areas and significance of nonverbal communication as they relate to the quality and effectiveness of human interaction in personal, social, and professional relationships.
Pre-req: CMM 103 with a minimum grade of D or CMM 207 with a minimum grade of D or CMM 104H with a minimum grade of D.
Attributes: Multicultural
Grade Mode: Normal Grading Mode

CMM 404 Rhetorical Comm Criticism **3 Credit hours**
An examination of the construction of rhetorical texts and the effects they produce.
Grade Mode: Normal Grading Mode

CMM 406 Interviewing **3 Credit hours**
Skill development in the question-answer-response process as it applies to a variety of interviewing situations. Skill development in the question-answer-response process as it applies to a variety of interviewing situations.
Grade Mode: Normal Grading Mode

CMM 408 Leadership & Group Comm **3 Credit hours**
A study of the variable affecting, and affected by, communication process in small groups, with particular emphasis upon leadership variables. A study of the variable affecting, and affected by, communication process in small groups, with particular emphasis upon leadership variables.
Pre-req: CMM 315.
Grade Mode: Normal Grading Mode

CMM 409 Theory Persuasion Change **3 Credit hours**
Study of the relationship between persuasion and social change, including theories of attitude and behavioral change and contemporary theories of persuasion. Study of the relationship between persuasion and social change, including theories of attitude and behavioral change and contemporary theories of persuasion.
Attributes: Digital Humanities
Grade Mode: Normal Grading Mode

CMM 411 Communication Study & Resch **3 Credit hours**
Introduction to the advanced study of theory and research areas with emphasis on communication research methods and reporting.
Pre-req: CMM 303 (may be taken concurrently).
Concurrent PR: CMM 303
Grade Mode: Normal Grading Mode

CMM 413 Theories of Interpersonal Com **3 Credit hours**
Pre-req: CMM 213.
Grade Mode: Normal Grading Mode

CMM 420 Communication & Conflict **3 Credit hours**
An exploration of the theory, research, and practice of communication in understanding and negotiating interpersonal conflict.
Grade Mode: Normal Grading Mode

CMM 421 Gender and Communication **3 Credit hours**
An exploration of gender as an organizing principle for communication. An exploration of gender as an organizing principle for communication.
Grade Mode: Normal Grading Mode

CMM 441 Dev Appr Film Since 1930 **3 Credit hours**
Study of important directions in modern film, including style, genre, and the relationship to contemporary society. A variety offilms will be viewed for analysis. Study of important directions in modern film, including style, genre, and the relationship to contemporary society. A variety offilms will be viewed for analysis.
Grade Mode: Normal Grading Mode

CMM 450 Direction Speech Activity **3 Credit hours**
Direction of extracurricular speech activities: assemblies, forensic events, etc. Direction of extracurricular speech activities: assemblies, forensic events, etc.
Grade Mode: Normal Grading Mode

CMM 456 Computer-Mediated Comm **3 Credit hours**
This course explores the impact of computer-mediated communication on human organization. This course explores the impact of computer-mediated comm- unication on human organization.
Attributes: Digital Humanities
Grade Mode: Normal Grading Mode

CMM 474 Interpersonal Health Comm **3 Credit hours**
Investigates communication in establishing effective interactions between health providers, patients, and families. Explores theories and findings in relationship development, decision making, intercultural communication, social support, advocacy, and family relationships. Investigates communication in establishing effective interactions between health providers, patients, and families. Explores theories and findings in relationship development, decision making, intercultural communication, social support, advocacy, and family relationships.
Grade Mode: Normal Grading Mode

CMM 476 Communication Classrm Tch **3 Credit hours**
Knowledge and utilization of interpersonal communication skills in all teaching-learning environments. Knowledge and utilization of interpersonal communication skills in all teaching-learning environments.
Grade Mode: Normal Grading Mode

CMM 478 Senior Seminar **3 Credit hours**
Capstone experience. The development, organization, revision and presentation of major projects that serve to demonstrate the student's competence in the discipline.
Pre-req: CMM 411 with a minimum grade of D.
Attributes: Capstone Course
Grade Mode: Normal Grading Mode

CMM 479 Public Health Communication **3 Credit hours**
Examines communication processes that influence human behavior and public policy through health promotion campaigns, including theories and practices of health behavior change and designing, implementing, and evaluating health communication interventions.
Grade Mode: Normal Grading Mode

CMM 480 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

CMM 481 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

CMM 482 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

CMM 483 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

CMM 485 Independent Study **1-4 Credit hours**
Attributes: No Textbook Required
Grade Mode: Normal Grading Mode

CMM 486 Independent Study **1-4 Credit hours**
Grade Mode: Normal Grading Mode

CMM 487 Independent Study **1-4 Credit hours**
Grade Mode: Normal Grading Mode

CMM 488 Independent Study **1-4 Credit hours**
Grade Mode: Normal Grading Mode

CMM 490 Internship **1-4 Credit hours**
Attributes: No Textbook Required
Grade Mode: Normal Grading Mode

CMM 495H Readings Honors Com Study **4 Credit hours**
Open only to speech majors of outstanding ability. See Honors Courses. Open only to speech majors of outstanding ability. See Honors Courses.
Grade Mode: Normal Grading Mode

French

FRN 101 Elementary French I **3 Credit hours**
Pronunciation, conversation, reading, and composition with emphasis on aural/oral development. Pronunciation, conversation, reading, and composition with emphasis on aural/oral development.
Grade Mode: Normal Grading Mode

FRN 102 Elementary French II **3 Credit hours**
Pronunciation, conversation, reading, and composition with emphasis on aural/oral development. Pronunciation, conversation, reading, and composition with emphasis on aural/oral development.
Pre-req: FRN 101 with a minimum grade of C.
Grade Mode: Normal Grading Mode

FRN 203 Intermediate French III **3 Credit hours**
Continuation on the intermediate level of the basic language skills: pronunciation, conversation, reading, and composition with emphasis on aural/oral development. Continuation on the intermediate level of the basic language skills: pronunciation, conversation, reading, and composi- tion with emphasis on aural/oral development.
Pre-req: FRN 102 with a minimum grade of C or FRN 112 with a minimum grade of C.
Grade Mode: Normal Grading Mode

FRN 204 Intermediate French IV **3 Credit hours**
Development of practical conversational skills, reading for comprehension, and directed composition. Development of practical conversational skills, reading for comprehension, and directed composition.
Pre-req: FRN 203 with a minimum grade of C.
Attributes: Foreign Language
Grade Mode: Normal Grading Mode

FRN 240 French Society & Life **3 Credit hours**
Selected topics relating to culture and life in the Frenchspeaking countries. Lectures, readings, and discussions in English. Selected topics relating to culture and life in the French- speaking countries. Lectures, readings, and discussions in English.
Attributes: Core II Humanities, International
Grade Mode: Normal Grading Mode

FRN 280 Special Topics **1-4 Credit hours**
Pre-req: FRN 204.
Grade Mode: Normal Grading Mode

FRN 281 Special Topics **1-4 Credit hours**
Pre-req: FRN 204.
Grade Mode: Normal Grading Mode

FRN 282 Special Topics **1-4 Credit hours**
Pre-req: FRN 204.
Grade Mode: Normal Grading Mode

FRN 283 Special Topics **1-4 Credit hours**
Pre-req: FRN 204.
Grade Mode: Normal Grading Mode

FRN 304 Masterpieces in Trans **3 Credit hours**
This course deals with major works of French literature and requires no prior background in French literature history. The course will be conducted in English. This course deals with major works of French literature and requires no prior background in French literature history. The course will be conducted in English.
Attributes: Literature
Grade Mode: Normal Grading Mode

FRN 305 Intro to FRN Comp & Conv **3 Credit hours**
Writing/Speaking intensive course designed to develop communicative skills and review language fundamentals acquired in FRN 101 204 sequence (2 years). Course taught in French. PR: FRN 204) Writing/ Speaking intensive course designed to develop communicative skills and review language fundamentals acquired in FRN 101 - 204 sequence (2 years). Course taught in French. PR: FRN 204)
Pre-req: FRN 204 with a minimum grade of D.
Grade Mode: Normal Grading Mode

FRN 315 Adv Grammar & Composition **3 Credit hours**
Study of idioms, grammatical structure, and syntax with emphasis on free composition, use of language laboratory, and formal study of the art of translation from English to French. Study of idioms, grammatical structure, and syntax with em- phasis on free composition, use of language laboratory, and formal study of the art of translation from English to French.
Pre-req: FRN 204.
Grade Mode: Normal Grading Mode

FRN 317 Survey French Literature **3 Credit hours**
A study of important literary movements, representative authors and their works from the Middle Ages to present. A study of important literary movements, representative authors and their works from the Middle Ages to present.
Pre-req: FRN 204.
Attributes: Literature
Grade Mode: Normal Grading Mode

FRN 323 Adv Frn Gram & Oral Com **3 Credit hours**
Analysis of grammatical structures and introduction to phonetics. Oral and written exercises, presentations, and discussion. Course conducted mainly in French. (PR: FRN 204) Analysis of grammatical structures and introduction to phonetics. Oral and written exercises, presentations, and discussion. Course conducted mainly in French. (PR: FRN 204)
Pre-req: FRN 204.
Grade Mode: Normal Grading Mode

FRN 335 Frn Civilization and Culture **3 Credit hours**
Pre-req: FRN 204.
Grade Mode: Normal Grading Mode

FRN 401 17th Century French Theater **3 Credit hours**
Study of representative plays by the classical dramatists Corneille, Moliere, and Racine. This course is conducted entirely in French. Study of representative plays by the classical dramatists Corneille, Moliere, and Racine. This course is conducted entirely in French.
Pre-req: FRN 305 or FRN 306 or FRN 315 or FRN 316 or FRN 317 or FRN 318 or FRN 323 or FRN 324 or FRN 335 or FRN 336.
Attributes: Literature
Grade Mode: Normal Grading Mode

FRN 402 18th Century French Lit **3 Credit hours**
Study of representative works by the philosophes, Montesquieu, Rousseau, Voltaire, and Diderot. The course will be conducted in French. (PR: FRN 204) Study of representative works by the philosophes, Montesquieu, Rousseau, Voltaire, and Diderot. The course will be conducted in French. (PR: FRN 204)
Pre-req: FRN 305 or FRN 306 or FRN 315 or FRN 316 or FRN 317 or FRN 318 or FRN 323 or FRN 324 or FRN 335 or FRN 336.
Attributes: Literature
Grade Mode: Normal Grading Mode

FRN 403 19th Century French Novel **3 Credit hours**
A study of major novels chosen to illustrate the romantic, realistic, and naturalistic literary movements. The course is conducted in French. A study of major novels chosen to illustrate the romantic, realistic, and naturalistic literary movements. The course is conducted in French.
Pre-req: FRN 305 or FRN 306 or FRN 315 or FRN 316 or FRN 317 or FRN 318 or FRN 323 or FRN 324 or FRN 335 or FRN 336.
Attributes: Literature
Grade Mode: Normal Grading Mode

FRN 404 20th Century French Novel **3 Credit hours**
A study of representative 20th Century French novels by Proust, Malraux, Sartre, Camus, Robbe-Grillet. The course will be taught in French. A study of representative 20th Century French novels by Proust, Malraux, Sartre, Camus, Robbe-Grillet. The course will be taught in French.
Pre-req: FRN 305 or FRN 306 or FRN 315 or FRN 316 or FRN 317 or FRN 318 or FRN 323 or FRN 324 or FRN 335 or FRN 336.
Attributes: International
Grade Mode: Normal Grading Mode

FRN 417 Contemporary Frn Film **3 Credit hours**
Course on selected films by French directors of the New Wave and the Post New-Wave period.
Grade Mode: Normal Grading Mode

FRN 425 Devel of French Prose I **3 Credit hours**
An analysis of the important works that mark the evolution of French Prose writers from the Middle Ages through the 18th Century. Readings and discussions are in French. An analysis of the important works that mark the evolution of French Prose writers from the Middle Ages through the 18th Century. Readings and discussions are in French.
Pre-req: FRN 204.
Grade Mode: Normal Grading Mode

FRN 427 Dev Frn Poetry-Theater I **3 Credit hours**
A study of literary works illustrating the development of poetry and theater in France from the Middle Ages through the 18th Century. A study of literary works illustrating the development of poetry and theater in France from the Middle Ages through the 18th Century.
Pre-req: FRN 317 and FRN 318.
Grade Mode: Normal Grading Mode

FRN 480 Special Topics **1-4 Credit hours**
A course for advanced students sufficiently prepared to do constructive work in phases of the language or literature of interest to them. A course for advanced students sufficiently prepared to do constructive work in phases of the language or literature of interest to them.
Pre-req: FRN 305 or FRN 306 or FRN 315 or FRN 316 or FRN 317 or FRN 318 or FRN 323 or FRN 324 or FRN 335 or FRN 336.
Grade Mode: Normal Grading Mode

FRN 481 Special Topics **1-4 Credit hours**
A course for advanced students sufficiently prepared to do constructive work in phases of the language or literature of interest to them. A course for advanced students sufficiently prepared to do constructive work in phases of the language or literature of interest to them.
Pre-req: FRN 305 or FRN 306 or FRN 315 or FRN 316 or FRN 317 or FRN 318 or FRN 323 or FRN 324 or FRN 335 or FRN 336.
Grade Mode: Normal Grading Mode

FRN 485 Independent Study **1-4 Credit hours**
Pre-req: FRN 305 or FRN 306 or FRN 315 or FRN 316 or FRN 317 or FRN 318 or FRN 323 or FRN 324 or FRN 335 or FRN 336.
Grade Mode: Normal Grading Mode

FRN 486 Independent Study **1-4 Credit hours**
Pre-req: FRN 305 or FRN 306 or FRN 315 or FRN 316 or FRN 317 or FRN 318 or FRN 323 or FRN 324 or FRN 335 or FRN 336.
Grade Mode: Normal Grading Mode

FRN 487 Independent Study **1-4 Credit hours**
Pre-req: FRN 305 or FRN 306 or FRN 315 or FRN 316 or FRN 317 or FRN 318 or FRN 323 or FRN 324 or FRN 335 or FRN 336.
Grade Mode: Normal Grading Mode

FRN 488 Independent Study **1-4 Credit hours**
Pre-req: FRN 305 or FRN 306 or FRN 315 or FRN 316 or FRN 317 or FRN 318 or FRN 323 or FRN 324 or FRN 335 or FRN 336.
Grade Mode: Normal Grading Mode

Geography

GEO 100 Intro to Human Geography (CT) **3 Credit hours**
This critical thinking course provides a systematic examination of contemporary concepts and processes of human geography in global perspective, including economics, geopolitics, culture, nationalism, urbanization, governance, agriculture, population, and migration.
Attributes: Critical Thinking, International, Core II Social Sciences
Grade Mode: Normal Grading Mode

GEO 101 Physical Geography (CT) **4 Credit hours**
Systematic survey of earth-sun relationships, land-surface form, climate, soils, water, natural vegetation, and other natural content as a background for human geography. Systematic survey of earth-sun relationships, land-surface form, climate, soils, water, natural vegetation, and other natural content as a background for human geography.
Attributes: Critical Thinking, Natural Sciences
Grade Mode: Normal Grading Mode

GEO 110 Basic GIS **1 Credit hour**
Introduction to GIS concepts including GIS components, spatial and tabular data, database elements, data formats, and map design; hands-on experience with a GIS.
Attributes: Digital Humanities
Grade Mode: Normal Grading Mode

GEO 111 Air Photos & Satellite Imagery **1 Credit hour**
Introduction to photogrammetry and remote sensing thourgh the hands-on investigation of aerial photographs and satellite imagery using the latest technology.
Attributes: Digital Humanities
Grade Mode: Normal Grading Mode

GEO 112 Smartphone GPS **1 Credit hour**
Principles of Global Navigation Satellite Systems (GNSS); using your smartphone for Global Positioning Systems (GPS)/GNSS orientation, and data collection.
Attributes: Digital Humanities
Grade Mode: Normal Grading Mode

GEO 113 Web GIS **1 Credit hour**
Students learn to build web maps, share GIS data on the internet, and create web GIS applications.
Attributes: Digital Humanities
Grade Mode: Normal Grading Mode

GEO 203 Economic Geography (CT) **3 Credit hours**
A systematic examination of world economic geography with a focus on population, agriculture, transportation, land use, urbanization, industry, energy, and the environment. A systematic examination of world economic geography with a focus on population, agriculture, transportation, land use, urbanization, industry, energy, and the environment.
Attributes: Critical Thinking, International, Core II Social Sciences
Grade Mode: Normal Grading Mode

GEO 206 Geography West Virginia **3 Credit hours**
A survey of the geography of West Virginia including landforms, climate, settlement patterns, population, economics, resources, politics, and environmental changes.
Attributes: American Institutions, Core II Social Sciences
Grade Mode: Normal Grading Mode

GEO 207 Biblical Geography **3 Credit hours**
Students explore the physical and human geography of ancient Palestine and assess how geography informs our understanding of people, events, and places described by Jewish and Christian scriptures.
Attributes: Core II Humanities
Grade Mode: Normal Grading Mode

GEO 222 Global Environment Issues (CT) **3 Credit hours**
Environmental issues have great emotional, political, and economic significance. The dynamics of global environmental problems, their complex interactions, and effects on potential stakeholders will be examined at the international scale.
Attributes: Critical Thinking, International, Core II Social Sciences
Grade Mode: Normal Grading Mode

GEO 230 Intro to Meteorology (CT) **4 Credit hours**
Introduction to the composition of the atmosphere and weather phenomena, including thunderstorms, tornadoes, and hurricanes. Introduction to the composition of the atmosphere and weather phenomena, including thunderstorms, tornadoes, and hurricanes.
Attributes: Critical Thinking, Core II Natural Sciences
Grade Mode: Normal Grading Mode

GEO 280 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

GEO 281 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

GEO 282 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

GEO 283 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

GEO 300 Methods in Geography **3 Credit hours**
Provides an introduction to research methods in geography. Topics addressed include: data sources; sampling; data collection, storage, and management; descriptive measures and data visualization techniques; qualitative and quantitative analysis.
Pre-req: STA 225 with a minimum grade of D or STA 150 with a minimum grade of D or STA 150B with a minimum grade of D or MGT 218 with a minimum grade of D or PSY 223 with a minimum grade of D or SOC 345 with a minimum grade of D or GEO 440 with a minimum grade of D.
Grade Mode: Normal Grading Mode

GEO 305 Geog of USA & Canada **3 Credit hours**
Survey of physical, historical, population, economic, political, cultural, and regional geographies of Canada and the United States, including an analysis of the multi-cultural nature of the societies.
Attributes: American Institutions, Multicultural
Grade Mode: Normal Grading Mode

GEO 317 World Regional Geography **3 Credit hours**
World regions examined using a synthesis of physical and human geographical themes including environment, culture, landscape, climate, landforms, globalization, population patterns, urbanization, economies, and political geography.
Attributes: International
Grade Mode: Normal Grading Mode

GEO 350 Severe Storms and Natl Hzrds **4 Credit hours**
Basics of earth and atmospheric hazards including flooding, earthquakes, tsunamis, hurricanes, tornadoes, and volcanic eruptions, and how to mitigate the impacts. Basics of earth and atmospheric hazards including flooding, earthquakes, tsunamis, hurricanes, tornadoes, and volcanic eruptions, and how to mitigate the impacts.
Grade Mode: Normal Grading Mode

GEO 355 Aviation Weather **3 Credit hours**
A study of atmospheric conditions on aeronautical operations. Topics include atmospheric properties, aviation hazards including thunderstorms, wind shear, turbulence, and icing, and weather flight resources.
Pre-req: GEO 230 with a minimum grade of D.
Grade Mode: Normal Grading Mode

GEO 402 Geography of Appalachia **3 Credit hours**
A study of the geography of Appalachia, including landforms, climate, settlement patterns, population, economics, resources, politics, and environmental changes.
Attributes: American Institutions
Grade Mode: Normal Grading Mode

GEO 404 Geography of Europe **3 Credit hours**
An examination of the geography of Europe focusing on contemporary issues, including climate, culture, economics, environmental change, everyday life, international relations landforms, language, politics, population, religion, and urbanization. An examination of the geography of Europe focusing on contemporary issues, including climate, culture, economics, environmental change, everyday life, international relations landforms, language, politics, population, religion, and urbanization.
Attributes: International
Grade Mode: Normal Grading Mode

GEO 405 Political Geography **3 Credit hours**
A systematic and regional survey of world political problems and international relations stressing current geopolitical conflicts. An examination of contemporary patterns, processes, and problems of political geography in global perspective, including globalization, colonialism, imperialism, geopolitics, nationalism, diplomacy, international borders, governance, political representation, and future projections
Attributes: International
Grade Mode: Normal Grading Mode

GEO 406 Population Geography **3 Credit hours**
An examination of contemporary patterns, processes, and problems of population geography in global perspective, including fertility, mortality, demographic change, migration, malnutrition, urbanization, natural resource sustainability, and future projections. An examination of contemporary patterns, processes, and problems of population geography in global perspective, including fertility, mortality, demographic change, migration, malnutrition, urbanization, natural resource sustainability, and future projections.
Attributes: International
Grade Mode: Normal Grading Mode

GEO 408 Geog of South & Middle America **3 Credit hours**
A study of settlement, transportation, manufacturing, agriculture, geopolitics, and natural resources of South and Middle American countries. Regional study of relation of man's activities to natural environment.
Attributes: International
Grade Mode: Normal Grading Mode

GEO 410 Urban Geography **3 Credit hours**
Study of the evolution, morphology and land use, functions, and problems of urban areas, with emphasis on governance, planning, and the social and environmental impacts of urbanization.
Attributes: American Institutions
Grade Mode: Normal Grading Mode

GEO 411 Medical Geography **3 Credit hours**
An examination of contemporary issues and problems in health and medical geography, including the spatial aspects of global health, health care policy, and disease origins, diffusion, and ecology.
Grade Mode: Normal Grading Mode

GEO 418 Geography For Educators **3 Credit hours**
A study of geographic concepts, methods, and technologies essential for effective teaching of geographic content for K-12 social studies teachers and college educators.
Grade Mode: Normal Grading Mode

GEO 422 Environmental Geography **3 Credit hours**
Attributes: International
Grade Mode: Normal Grading Mode

GEO 423 Cartography & GIS **3 Credit hours**
This course is an introduction to cartography and is the cornerstone of Geographic Information Science. In this class you will learn basic map design, map interpretation and appreciation. We will explore the nature of spatial data, and learn what maps can and cannot represent. We will study maps as a data source for Geographic Information Systems, and as a graphic tool for scientific visualizations.
Grade Mode: Normal Grading Mode

GEO 424 Transportation Geography **3 Credit hours**
A geographic analysis of transportation and its spatial organization. Concepts, models, and analytical methods related to traffic demand, network configuration, and allocation of transport facilities are covered.
Grade Mode: Normal Grading Mode

GEO 425 Climatology **4 Credit hours**
A study of elements of weather and climate, methods of climatic classification, and the distribution and characteristics of world climate regions. A study of elements of weather and climate, methods of climatic classification, and the distribution and characteristics of world climate regions.
Grade Mode: Normal Grading Mode

GEO 426 Principles of GIS **4 Credit hours**
Introduction to Geographic Information Systems (GIS) principles, techniques, and applications for the social and natural sciences with emphasis on foundational geographic principles in a lecture/lab format.
Attributes: Digital Humanities
Grade Mode: Normal Grading Mode

GEO 427 Principles of GIS II **4 Credit hours**
Students apply GIS principles and techniques to geoprocess and manipulate geographic data, including topics such as geodatabase management, python scripting, model building, web mapping and data services, and spatial analysis.
Pre-req: GEO 423 with a minimum grade of D or GEO 426 with a minimum grade of D or GEO 429 with a minimum grade of D or GEO 430 with a minimum grade of D or NRRM 423 with a minimum grade of D or NRRM 433 with a minimum grade of D.
Grade Mode: Normal Grading Mode

GEO 429 Location Analysis and GIS **4 Credit hours**
Concepts, models, and methods of geographic location analysis of natural resource extraction, manufacturing, services, retail and market area analytics, and logistics using GIS.
Pre-req: GEO 423 with a minimum grade of D or GEO 426 with a minimum grade of D or GEO 427 with a minimum grade of D or GEO 430 with a minimum grade of D or NRRM 423 with a minimum grade of D or NRRM 433 with a minimum grade of D.
Grade Mode: Normal Grading Mode

GEO 430 Environmental Raster GIS **4 Credit hours**
Environmental Applications of GIS raster analysis, including local, neighborhood, and zonal operations, terrain analysis, distance modeling, and surface interpolation, data collection and input, and advanced spatial analysis using GIS.
Pre-req: GEO 426 or GEO 429 or IST 423.
Grade Mode: Normal Grading Mode

GEO 431 Remote Sensing & Photogram **4 Credit hours**
Scientific study of the earth using images and data captured using satellite- or aircraft-borne sensors, with emphasis on issues of acquisition, photogrammetric interpretation, spatial analysis and application.
Pre-req: GEO 426 with a minimum grade of D or GEO 429 with a minimum grade of D or GEO 430 with a minimum grade of D or IST 423 with a minimum grade of D.
Grade Mode: Normal Grading Mode

GEO 432 Enterprise GIS **3 Credit hours**
Principles and techniques for planning, implementing, and managing Geographic Information Systems technologies in a firm or agency.
Pre-req: GEO 426 or GEO 429 or GEO 430 or GEO 431 or IST 423.
Grade Mode: Normal Grading Mode

GEO 433 GPS & Mobile Geospatial Tech **3 Credit hours**
An analysis of the design and deployment of Global Navigation Satellite Systems such as GPS (Global Positioning System) and their application to mobile map services.
Pre-req: GEO 426 or GEO 429 or GEO 430 or GEO 431 or IST 423.
Grade Mode: Normal Grading Mode

GEO 434 Floods Hazards and GIS **3 Credit hours**
Application of principles of flood hazards preparation, disaster management, and mitigation using Geographic Information Systems (GIS).
Grade Mode: Normal Grading Mode

GEO 440 Spatial Statistics and GIS **4 Credit hours**
Statistical methods applied to problem solving in geography and using GIS for display and analysis. Primary focus on descriptive and inferential spatial statistics, mapping, and spatial analysis of data.
Grade Mode: Normal Grading Mode

GEO 450 Extreme Weather **4 Credit hours**
Basics of extreme weather phenomena including hurricanes, tornadoes, floods, droughts, blizzards, and how to mitigate the impacts.
Grade Mode: Normal Grading Mode

GEO 454 Drones: Remote Sensing & GIS **3 Credit hours**
Learn FAA rules and safety procedures; prepare for Remote Pilot licensing exam; operate drones to collect remote sensing data; process imagery for analysis; integrate sUAS imagery with existing GIS data.
Grade Mode: Normal Grading Mode

GEO 460 Weather Analysis **4 Credit hours**
Introduction to reading weather maps and meteorological analysis techniques including satellite and radar image interpretation and numerical weather prediction.
Grade Mode: Normal Grading Mode

GEO 480 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

GEO 481 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

GEO 482 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

GEO 483 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

GEO 485 Independent Study **1-4 Credit hours**
Attributes: No Textbook Required
Grade Mode: Normal Grading Mode

GEO 486 Independent Study **1-4 Credit hours**
Attributes: No Textbook Required
Grade Mode: Normal Grading Mode

GEO 487 Independent Study **1-4 Credit hours**
Grade Mode: Normal Grading Mode

GEO 488 Independent Study **1-4 Credit hours**
Grade Mode: Normal Grading Mode

GEO 490 Internship **1-6 Credit hours**
Cooperative learning experience with regional employer/government agency.
Attributes: No Textbook Required
Grade Mode: Credit/No Credit Grade Only

GEO 498 Senior Capstone **2 Credit hours**
This senior capstone course combines research methods, data collection, and analysis to produce original research on questions and problems in geography. Par I: Pilot Project.
Pre-req: GEO 300 with a minimum grade of D and (GEO 423 with a minimum grade of D or GEO 426 with a minimum grade of D).
Attributes: Capstone Course
Grade Mode: Normal Grading Mode

GEO 499 Senior Capstone II **1-3 Credit hours**
This senior capstone course combines research methods, data collection, and analysis to produce original research on questions and problems in geography. Part II.
Pre-req: GEO 426 with a minimum grade of D and (MTH 225 with a minimum grade of D or GEO 440 with a minimum grade of D or MGT 218 with a minimum grade of D or PSY 223 with a minimum grade of D or SOC 345 with a minimum grade of D or ANT 301 with a minimum grade of D or EDF 417 with a minimum grade of D).
Attributes: American Institutions, Capstone Course
Grade Mode: Normal Grading Mode

History

HST 101 Great Civs to 1300 (CT) **3 Credit hours**
Comparative study of the origin and course of major civilizations focusing on the Middle East, India, China, and the West. This class emphasizes critical thinking skills. Comparative study of the origin and course of major civilizations focusing on the Middle East, India, China, and the West. This class emphasizes critical thinking skills.
Attributes: Critical Thinking, Multicultural, Core II Social Sciences
Grade Mode: Normal Grading Mode

HST 101H Great Civs to 1300 (CT) **3 Credit hours**
Comparative study of the origin and course of major civilizations focusing on the Middle East, India, China, and the West. This honors section emphasizes critical thinking skills.
Pre-req: Admitted Honors College with a score of 1.
Attributes: Critical Thinking, Honors, Multicultural, Core II Social Sciences
Grade Mode: Normal Grading Mode

HST 102 World & West 1300-1850 (CT) **3 Credit hours**
An interdisciplinary analysis of the foundations of Western development. This class emphasizes critical thinking skills.
Attributes: Critical Thinking, Multicultural, Core II Social Sciences
Grade Mode: Normal Grading Mode

HST 102H World & West 1300-1850 (CT) **3 Credit hours**
An interdisciplinary analysis of the foundations of Western development. This class emphasizes critical thinking skills.
Pre-req: Admitted Honors College with a score of 1.
Attributes: Critical Thinking, Honors, Multicultural, Core II Social Sciences
Grade Mode: Normal Grading Mode

HST 103 The World Since 1850 (CT) **3 Credit hours**
Major world developments and trends from the middle of the 19th century to the present and their implications for the future. This class emphasizes critical thinking skills. Major world developments and trends from the middle of the 19th century to the present and their implications for the future. This class emphasizes critical thinking skills.
Attributes: Critical Thinking, International, Core II Social Sciences
Grade Mode: Normal Grading Mode

HST 103H World Since 1850 Honors (CT) **3 Credit hours**
Survey for superior students of world developments and trends from the 19th century to the present and their implications for the future. Survey for superior students of world developments and trends from the 19th century to the present and their implications for the future.
Pre-req: ACT Composite with a score of 26 or SAT Verbal Before March 16 with a score of 600.
Attributes: Critical Thinking, Honors, International, Core II Social Sciences
Grade Mode: Normal Grading Mode

HST 200 History Methods Workshop **3 Credit hours**
This course is an introduction to the most fundamental methods of the discipline. Students will learn to use library resources, practice document interpretation skills, and identify and evaluate historical arguments. This course is an introduction to the most fundamental methods of the discipline. Students will learn to use library resources, practice document interpretation skills, and identify and evaluate historical arguments.
Attributes: Core II Social Sciences
Grade Mode: Normal Grading Mode

HST 208 The Developing World (CT) **3 Credit hours**
A survey of selected Third World countries focusing on imperialism, colonialism and developmental interests. This class emphasizes critical thinking skills. A survey of selected Third World countries focusing on imperialism, colonialism and developmental interests. This class emphasizes critical thinking skills.
Attributes: Critical Thinking, International, Core II Social Sciences, World History
Grade Mode: Normal Grading Mode

HST 218 Ancient Egypt **3 Credit hours**
A survey of the history of Egypt from the pre-dynastic kings through the reign of Cleopatra with emphasis on religious, cultural, social, political and economic developments.
Attributes: World History
Grade Mode: Normal Grading Mode

HST 219 Ancient History **3 Credit hours**
A survey of the ancient Near East, Greece, and Rome with emphasis on Greek and Roman civilization from Mycenaean times through the Roman Empire of the 5th century. Open to all undergraduates. A survey of the ancient Near East, Greece, and Rome with emphasis on Greek and Roman civilization from Mycenaean times through the Roman Empire of the 5th century. Open to all undergraduates.
Attributes: European History, Multicultural, Core II Social Sciences
Grade Mode: Normal Grading Mode

HST 220 European Hist Medieval **3 Credit hours**
A survey of the history of Europe from the later Roman Empire to the end of the Middle Ages with emphasis on religious, cultural, social, political and economic developments. Open to all undergraduates. A survey of the history of Europe from the later Roman Empire to the end of the Middle Ages with emphasis on religious, cultural, social, political and economic developments. Open to all undergraduates.
Attributes: European History, Core II Social Sciences
Grade Mode: Normal Grading Mode

HST 223 Rise & Fall Nazi Germany **3 Credit hours**
A study of the origins, course, and collapse of the Third Reich. Some attention will be given to pre-Nazi period. A study of the origins, course, and collapse of the Third Reich. Some attention will be given to pre-Nazi period.
Attributes: European History, International, Core II Social Sciences
Grade Mode: Normal Grading Mode

HST 230 American History to 1877 (CT) **3 Credit hours**
A general survey from the discovery in 1492 through the period of Reconstruction. This class emphasizes critical thinking skills. A general survey from the discovery in 1492 through the period of Reconstruction. This class emphasizes critical thinking skills.
Attributes: American Institutions, Critical Thinking, Multicultural, Core II Social Sciences, United States History
Grade Mode: Normal Grading Mode

HST 230H Amer Hist to 1877-Honors **3 Credit hours**
A survey of American History to 1877 for the superior student. A survey of American History to 1877 for the superior student.
Pre-req: ACT Composite with a score of 26 or SAT Verbal Before March 16 with a score of 600.
Attributes: American Institutions, Core II Social Sciences, United States History
Grade Mode: Normal Grading Mode

HST 231 American Hist From 1877 (CT) **3 Credit hours**
A general survey since Reconstruction. This class emphasizes critical thinking skills. A general survey since Reconstruction. This class emphasizes critical thinking skills.
Attributes: American Institutions, Critical Thinking, Multicultural, Core II Social Sciences, United States History
Grade Mode: Normal Grading Mode

HST 231H US Hist Since 1877-Honors **3 Credit hours**
Pre-req: ACT Composite with a score of 26 or SAT Verbal Before March 16 with a score of 600.
Attributes: American Institutions, Honors, Social Sciences, Core II Social Sciences, United States History
Grade Mode: Normal Grading Mode

HST 250 Women in US History **3 Credit hours**
A study of the public and private contributions of women in the shaping of the United States from the Colonial period to the present. A study of the public and private contributions of women in the shaping of the United States from the Colonial period to the present.
Attributes: Core II Social Sciences, United States History
Grade Mode: Normal Grading Mode

HST 260 Rise of Islam 570-1750 **3 Credit hours**
A study of the Middle Eastern region from pre-Islamic Arabia to the pinnacle of Ottoman imperial control. Emphasis is placed on cultural, social, and political developments. A study of the Middle Eastern region from pre-Islamic Arabia to the pinnacle of Ottoman imperial control. Emphasis is placed on cultural, social, and political developments.
Attributes: Core II Social Sciences, World History
Grade Mode: Normal Grading Mode

HST 265 Modern East Asia **3 Credit hours**
A survey of the history of East Asia from 17th century to present with a focus on China and Japan. A survey of the history of East Asia from 17th century to present with a focus on China and Japan.
Attributes: Core II Social Sciences, World History
Grade Mode: Normal Grading Mode

HST 280 Special Topics **1-4 Credit hours**
Selected topics not covered in regular course offerings. Selected topics not covered in regular course offerings.
Grade Mode: Normal Grading Mode

HST 281 Special Topics **1-4 Credit hours**
Selected topics not covered in regular course offerings. Selected topics not covered in regular course offerings.
Grade Mode: Normal Grading Mode

HST 282 Special Topics **1-4 Credit hours**
Selected topics not covered in regular course offerings. Selected topics not covered in regular course offerings.
Grade Mode: Normal Grading Mode

HST 283 Special Topics **1-4 Credit hours**
Selected topics not covered in regular course offerings. Selected topics not covered in regular course offerings.
Grade Mode: Normal Grading Mode

HST 301 Lat Am Discovery-Independ **3 Credit hours**
Emphasis is on conditions in Spain which influenced the development of Latin America and eventually led to the independence movement. Emphasis is on conditions in Spain which influenced the development of Latin America and eventually led to the independence movement.
Attributes: International, World History
Grade Mode: Normal Grading Mode

HST 302 Lat Am Independence-Pres **3 Credit hours**
Emphasis is on the political, economic and social institutions of Argentina, Brazil, Chile and Mexico. Emphasis is on the political, economic and social insti- tutions of Argentina, Brazil, Chile and Mexico.
Attributes: International, World History
Grade Mode: Normal Grading Mode

HST 303 American Military History **3 Credit hours**
Attributes: United States History
Grade Mode: Normal Grading Mode

HST 304 Spanish History Since 1475 **3 Credit hours**
A survey of Spain's historical development emphasizing her rise and decline as a world power, the impact of persistent internal conflict, the Franco dictatorship and the transition to democracy.
Attributes: European History, International
Grade Mode: Normal Grading Mode

HST 305 Drug Wars **3 Credit hours**
This course examines the history of the war on drugs throughout U.S. and Latin American history with an emphasis on the past century.
Attributes: World History
Grade Mode: Normal Grading Mode

HST 306 The Holocaust **3 Credit hours**
An exploration of the why and how of the Holocaust with an emphasis on Nazi Jewish policy from 1933 to 1942. An exploration of the why and how of the Holocaust with an emphasis on Nazi Jewish policy from 1933 to 1942.
Attributes: European History
Grade Mode: Normal Grading Mode

HST 307 The Global Cold War **3 Credit hours**
An international survey of World War II and the Cold War. Topics include military, political, diplomatic, social and cultural history from a global perspective.
Attributes: International, World History
Grade Mode: Normal Grading Mode

HST 308 Baseball in the Americas **3 Credit hours**
It seeks to understand the importance of baseball from a social, cultural and political standpoint. It also explores the use of baseball as a diplomatic tool.
Attributes: United States History
Grade Mode: Normal Grading Mode

HST 309 History of the Cherokee **3 Credit hours**
The course explores the history and culture of the Cherokee people from pre-contact through the 21st century.
Grade Mode: Normal Grading Mode

HST 310 History of Global Pandemics **3 Credit hours**
A study of pandemics in world history, from the Plague of Athens to COVID-19.
Attributes: American Institutions, Social Sciences
Grade Mode: Normal Grading Mode

HST 311 World War I **3 Credit hours**
This course explores the First World War. It examines the roots of the conflict, the outbreak, the course of the war, and its chaotic aftermath.
Attributes: World History
Grade Mode: Normal Grading Mode

HST 312 African-American History **3 Credit hours**
A survey of African-American History from African and West Indian origins to the present. A survey of African-American History from African and West Indian origins to the present.
Attributes: American Institutions, Multicultural, United States History
Grade Mode: Normal Grading Mode

HST 314 LGBTQ+ History of the US **3 Credit hours**
A survey of LGBTQIA+ history in the United States from the colonial period to the present. Introduction to the civilization of the area; the establishment of colonial control; liquidation of colonial rule and the readjustment required.
Attributes: United States History
Grade Mode: Normal Grading Mode

HST 323 Religion in America **3 Credit hours**
The rise and development of religion and of religious thinking in America. (Same as Religious Studies 323) The rise and development of religion and of religious thinking in America. (Same as Religious Studies 323)
Attributes: American Institutions, Social Sciences, United States History
Grade Mode: Normal Grading Mode

HST 330 Football and American Culture **3 Credit hours**
This class examines the role of football in American culture, politics, the economy and particularly its role in the elevation of college sports. A general treatment from the discovery in 1492 through the period of Reconstruction.
Attributes: United States History
Grade Mode: Normal Grading Mode

HST 333 American Colonial History **3 Credit hours**
A study of the historical development of the English colonies in America. A study of the historical development of the English colonies in America.
Attributes: American Institutions, United States History
Grade Mode: Normal Grading Mode

HST 342 American Legal History **3 Credit hours**
Historical development of American law in areas ranging from slavery and racial discrimination to civil liberties and crime and punishment. Historical development of American law in areas ranging from slavery and racial discrimination to civil liberties and crime and punishment.
Attributes: American Institutions, United States History
Grade Mode: Normal Grading Mode

HST 343 The US in the 1970s **3 Credit hours**
The economic, political, social and cultural history of the United States as it shifted from the modern 1960s to the post-modern world of the late 20th century. The economic, political, social and cultural history of the United States as it shifted from the modern 1960s to the post-modern world of the late 20th century.
Attributes: American Institutions, United States History
Grade Mode: Normal Grading Mode

HST 344 The United States in the 1980s **3 Credit hours**
Focusing on the United States in the 1980s global context, this course examines the social, cultural, political, and economic history of the late 20th century.
Attributes: United States History
Grade Mode: Normal Grading Mode

HST 347 Southern Women's History **3 Credit hours**
This course explores the lives and experiences of Southern women in the US from the colonial era to the present. This course explores the lives and experiences of Southern women in the US from the colonial era to the present.
Attributes: United States History
Grade Mode: Normal Grading Mode

HST 360 Sports and Civil Rights **3 Credit hours**
An examination of the way that sports history reflects important themes in US history such as equality, race, ethnicity, and gender.
Attributes: Multicultural
Grade Mode: Normal Grading Mode

HST 361 The Modern Middle East **3 Credit hours**
A survey of the modern Middle East with emphasis on the historical background of current controversial issues confronting the region. A survey of the modern Middle East with emphasis on the historical background of current controversial issues confronting the region.
Attributes: International, World History
Grade Mode: Normal Grading Mode

HST 362 The Crusades **3 Credit hours**
An examination of the origins, historical progression, and impact of the Crusades from both Christian and Islamic perspectives.
Attributes: Multicultural, World History
Grade Mode: Normal Grading Mode

HST 365 The Civil Rights Movement **3 Credit hours**
An exploration of 20th century movements for civil rights in American history examining race, ethnicity, social class, and gender. An exploration of 20th century movements for civil rights in American history examining race, ethnicity, social class, and gender.
Attributes: Multicultural
Grade Mode: Normal Grading Mode

HST 366 Conspiracies in US History **3 Credit hours**
This course focuses on the ways people have constructed and used conspiracy theories to explain events in U.S. political, cultural, social, and scientific arenas.
Attributes: United States History
Grade Mode: Normal Grading Mode

HST 378 Modern Asia **3 Credit hours**
A selective look at Modern Asia, focusing on Japan, China, Korea, Taiwan, Vietnam and Indonesia and American interaction with the Asian nations. No Preq. A selective look at Modern Asia, focusing on Japan, China, Korea, Taiwan, Vietnam and Indonesia and American inter- action with the Asian nations. No Preq.
Attributes: International, World History
Grade Mode: Normal Grading Mode

HST 380 Asia to 1600 **3 Credit hours**
This course will introduce students to the political, cultural, social, and intellectual environment of premodern Asia. Students will also learn to think critically about their own and other societies. This course will introduce students to the political, cultural, social, and intellectual environment of pre- modern Asia. Students will also learn to think critically about their own and other societies.
Attributes: World History
Grade Mode: Normal Grading Mode

HST 390 Food in World History **3 Credit hours**
This course examines the key changes and continuities in human food consumption patterns and practices since the Neolithic period while comparing and contrasting the foodways of major civilizations and cultures.
Attributes: World History
Grade Mode: Normal Grading Mode

HST 392 Food Markets and Modernity **3 Credit hours**
This course examines the social and cultural history of various types of urban food markets in Western Europe and the United States from the late eighteenth century to the present.
Attributes: European History
Grade Mode: Normal Grading Mode

HST 400 Senior Seminar **3 Credit hours**
A capstone course for History majors. Survey of literature and practical experience in methods and sources of history through bibliographical study and research papers. Senior standing or by permission. A capstone course for History majors. Survey of literature and practical experience in methods and sources of history through bibliographical study and research papers. Senior standing or by permission.
Pre-req: HST 101 with a minimum grade of D and HST 102 with a minimum grade of D and HST 103 with a minimum grade of D and HST 200 with a minimum grade of D and HST 230 with a minimum grade of D and HST 231 with a minimum grade of D.
Attributes: Capstone Course
Grade Mode: Normal Grading Mode

HST 401 History of Appalachia **3 Credit hours**
This course will explore the historical and historiographical development of Appalachia and the economic, political, and cultural forces that have shaped the lives and communities of mountaineers.
Grade Mode: Normal Grading Mode

HST 405 Amer Diplomacy 1900-Pres **3 Credit hours**
American foreign relations in the 20th century. The gradual retreat from isolation in the period between World War I and World War II and modern American involvement in international commitments are stressed. American foreign relations in the 20th century. The gradual retreat from isolation in the period between World War I and World War II and modern American involvement in inter- national commitments are stressed.
Attributes: American Institutions, United States History
Grade Mode: Normal Grading Mode

HST 406 Tudor & Stuart England **3 Credit hours**
A history of England under the Tudors and Stuarts, focusing primarily on demographic, social, cultural, and political developments. A history of England under the Tudors and Stuarts, focusing primarily on demographic, social, cultural, and political developments.
Attributes: European History
Grade Mode: Normal Grading Mode

HST 407 Sex and Sexuality in the US **3 Credit hours**
Examines the history of sex and sexuality in North America in the context of cultural, legal, economic, political and social history from the 16th century to present.
Attributes: United States History
Grade Mode: Normal Grading Mode

HST 408 History of LGBT Peoples **3 Credit hours**
A survey of gay, lesbian, bisexual and transgender history in the United States from the colonial period to the present. A survey of gay, lesbian, bisexual and transgender history in the United States from the colonial period to the present.
Attributes: United States History
Grade Mode: Normal Grading Mode

HST 409 American Revolution **3 Credit hours**
A varied view of the American Revolution and its impact on the American people. A varied view of the American Revolution and its impact on the American people.
Attributes: United States History
Grade Mode: Normal Grading Mode

HST 413 Hist Old South 1492-1860 **3 Credit hours**
The History of the Old South is a study of the political, economic, social, and cultural conditions in the South that led to the development of the South as a distinct section in the United States. The History of the Old South is a study of the political, economic, social, and cultural conditions in the South that led to the development of the South as a distinct section in the United States.
Attributes: United States History
Grade Mode: Normal Grading Mode

HST 414 Am Civil War & Reconstruc **3 Credit hours**
A discussion of the economic, political, social, and cultural differences leading to the Civil War, the war itself, and an analysis of the political and economic importance of Reconstruction. A discussion of the economic, political, social, and cultural differences leading to the Civil War, the war itself, and an analysis of the political and economic impor- tance of Reconstruction.
Attributes: United States History
Grade Mode: Normal Grading Mode

HST 415 Hist New South 1877-Pres **3 Credit hours**
A study of the political, economic, social, and cultural changes in the South after Reconstruction, which explains conditions in the contemporary South. A study of the political, economic, social, and cultural changes in the South after Reconstruction, which explains conditions in the contemporary South.
Attributes: United States History
Grade Mode: Normal Grading Mode

HST 417 U.S. West to 1900 **3 Credit hours**
A study of the social, cultural, political, and economic history of the US West to 1900, along with West's place in public memory.
Attributes: United States History
Grade Mode: Normal Grading Mode

HST 421 Renaissance & Reformation **3 Credit hours**
The impact of the Renaissance upon esthetic, economic, and political developments especially in the 15th and 16th centuries. The decline of Catholicism and the growth of the Protestant movement, and the influence of the two movements upon each other are stressed. The impact of the Renaissance upon esthetic, economic, and political developments especially in the 15th and 16th centuries. The decline of Catholicism and the growth of the Protestant movement, and the influence of the two movements upon each other are stressed.
Attributes: European History
Grade Mode: Normal Grading Mode

HST 424 US Science & Technology **3 Credit hours**
A study of the development and impact of science and technology in the U.S. A study of the development and impact of science and tech- nology in the U.S.
Attributes: American Institutions, United States History
Grade Mode: Normal Grading Mode

HST 425 European Hist 1814-1914 **3 Credit hours**
A century of European policital, economic, and social history and its relationship to and influence upon the history of other world areas is noted. The impact of imperialistic rivalry is emphasized. A century of European policital, economic, and social history and its relationship to and influence upon the history of other world areas is noted. The impact of imperialistic rivalry is emphasized.
Attributes: European History
Grade Mode: Normal Grading Mode

HST 426 European Hist 1914-Pres **3 Credit hours**
The impact of World War I upon Europe, the era between two world wars, the search for world peace, and World War II and its aftermath are major topics of consideration. The impact of World War I upon Europe, the era between two world wars, the search for world peace, and World War II and its aftermath are major topics of consideration.
Attributes: European History, International
Grade Mode: Normal Grading Mode

HST 427 The World at War **3 Credit hours**
This course explores the Second World War. It probes the nexus of diplomacy, politics, ideology, military strategy and operations, economics, and technological innovation that generated a truly global "total war."
Attributes: Social Sciences, World History
Grade Mode: Normal Grading Mode

HST 428 Intel & Cult Hist Mod Eur **3 Credit hours**
A survey of the main events in European thought and culture in the 19th and 20th centuries. A survey of the main events in European thought and culture in the 19th and 20th centuries.
Attributes: European History, International
Grade Mode: Normal Grading Mode

HST 430 Soviet Russia and Beyond **3 Credit hours**
Rise and fall of the Soviet Union, with emphasis on political and economic changes and Soviet frreign policy, and including an examination of the aftermath of the Soviet Union's collapse. Rise and fall of the Soviet Union, with emphasis on political and economic changes and Soviet frreign policy, and including an examination of the aftermath of the Soviet Union's collapse.
Attributes: European History, International
Grade Mode: Normal Grading Mode

HST 431 America in the Gilded Age **3 Credit hours**
A study of America's transformation from a rural, agrarian nation into an urban, industrial world power; the final destruction of the American Indian; the settlement of the West; and the farmers' revolt. A study of America's transformation from a rural, agrarian nation into an urban, industrial world power; the final destruction of the American Indian; the settlement of the West; and the farmers' revolt.
Attributes: American Institutions, United States History
Grade Mode: Normal Grading Mode

HST 433 In Our Time-Am Since 1945 **3 Credit hours**
A study of America since World War II, focusing mainly on domestic politics, foreign affairs, the civil rights movement, the rise of minorities, and the fragmentation of American society. A study of America since World War II, focusing mainly on domestic politics, foreign affairs, the civil rights move- ment, the rise of minorities, and the fragmentation of American society.
Attributes: American Institutions, United States History
Grade Mode: Normal Grading Mode

HST 434 The Vietnam War **3 Credit hours**
A study of the origin and escalation of American involvement in Vietnam, the domestic impact of the war within the United States and the collapse of the South Vietnamese government. A study of the origin and escalation of American involvement in Vietnam, the domestic impact of the war within the United States and the collapse of the South Vietnamese government.
Attributes: International, United States History
Grade Mode: Normal Grading Mode

HST 435 Modern Japan **3 Credit hours**
Begins with an overview of nineteenth century Japan and stresses the twentieth century rise of Japan to the position of world power. Begins with an overview of nineteenth century Japan and stresses the twentieth century rise of Japan to the position of world power.
Attributes: International, World History
Grade Mode: Normal Grading Mode

HST 436 Modern China **3 Credit hours**
This course will provide an overview of Chinese history in the modern era (1600 to present), including the major political, cultural, social and intellectual events and trends of this period. This course will provide an overview of Chinese history in the modern era (1600 to present), including the major political, cultural, social and intellectual events and trends of this period.
Attributes: World History
Grade Mode: Normal Grading Mode

HST 437 Seminar in Public History **3 Credit hours**
Introduction to the basic theories, ideas, and approaches to the application of historical theory or methods to projects presented to non-student publics; local and economic development applications and projects emphasized.
Attributes: United States History
Grade Mode: Normal Grading Mode

HST 438 Stuff and Things in History **3 Credit hours**
This course investigates the rich potential of"things" -- objects, landscapes, buildings, household utensils, furniture, foods, works of art, clothing, etc -- as sources of insight about American history and culture.
Attributes: World History
Grade Mode: Normal Grading Mode

HST 439 Modern China through Film **3 Credit hours**
Through a combination of films,lectures,readings,discussions and writings the course will show how China took its unique path to modernization. Through a combination of films,lectures,readings,discussions and writings the course will show how China took its unique path to modernization.
Attributes: World History
Grade Mode: Normal Grading Mode

HST 440 West Virginia History **3 Credit hours**
An interdisciplinary study of the state, its people and its institutions within the national context. An interdisciplinary study of the state, its people and its institutions within the national context.
Attributes: American Institutions, United States History
Grade Mode: Normal Grading Mode

HST 443 20th Century US Womens Hst **3 Credit hours**
This course explores the diverse lives and experiences of 20th century US women, always with an emphasis on power. This course explores the diverse lives and experiences of 20th century US women, always with an emphasis on power.
Attributes: United States History
Grade Mode: Normal Grading Mode

HST 444 US Popular Culture **3 Credit hours**
Explores the roles of popular media, art, consumer culture, and public entertainments in the development of popular culture in the United States from the 18th Century to the present.
Attributes: United States History
Grade Mode: Normal Grading Mode

HST 445 Arab-Israeli Conflict **3 Credit hours**
This course will examine the historical developments of the modern Arab-Israeli conflict, with emphasis placed on political, socioeconomic, and cultural change and the prospects for peace. This course will examine the historical developments of the modern Arab-Israeli conflict, with emphasis placed on political, socioeconomic, and cultural change and the prospects for peace.
Attributes: World History
Grade Mode: Normal Grading Mode

HST 446 Rise of Atlantic World **3 Credit hours**
This course considers the expansion of Western Europe, beginning in the early 1400's to Africa, Latin America, and other parts of the Atlantic world.
Attributes: World History
Grade Mode: Normal Grading Mode

HST 447 Film and Empire **3 Credit hours**
This course explores the nature and importance of empires through the reading of key texts and the study of selected films.
Attributes: World History
Grade Mode: Normal Grading Mode

HST 448 British History in Film **3 Credit hours**
This course explores selected aspects of British history through the study of films and key texts.
Attributes: European History
Grade Mode: Normal Grading Mode

HST 449 World War I in Film **3 Credit hours**
This course explores the origins, course, and meaning of World War I (1914-1918) through the use of selected films and readings.
Attributes: World History
Grade Mode: Normal Grading Mode

HST 451 History of Women in Sports **3 Credit hours**
Examines the importance of sport to the lives of girls and women and vice versa. The course encourages critical analysis of the place and value of sport in women's lives.
Attributes: United States History
Grade Mode: Normal Grading Mode

HST 452 History of Sports in America **3 Credit hours**
Examines the effects of sports on American society and culture. It explores the historical development of American sports and examine relationships between sports, nationalism, politics, economics, gender and American expansion.
Attributes: United States History
Grade Mode: Normal Grading Mode

HST 453 The Kennedy Assassination **3 Credit hours**
This course explores the events surrounding the assassination of President John F. Kennedy.
Grade Mode: Normal Grading Mode

HST 454 History of Ireland **3 Credit hours**
This course explores the history of Ireland from the Middle Ages to the Present.
Attributes: European History
Grade Mode: Normal Grading Mode

HST 458 Spies in History **3 Credit hours**
This course explores the role played by spies and espionage in modern history.
Attributes: World History
Grade Mode: Normal Grading Mode

HST 462 The Viking World **3 Credit hours**
By analyzing saga literature, poetry, and artifacts, students will examine the history of medieval Scandinavia.
Attributes: European History
Grade Mode: Normal Grading Mode

HST 465 Medieval Britain **3 Credit hours**
An examination of mainland Britain from the pre-Roman era through the Hundred Years War.
Attributes: European History
Grade Mode: Normal Grading Mode

HST 467 Fashion and Textile History **3 Credit hours**
Cross-cultural comparisons of textiles as primary sources for prehistoric cultures through the 1920's.
Attributes: World History
Grade Mode: Normal Grading Mode

HST 480 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

HST 481 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

HST 482 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

HST 483 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

HST 485 Independent Study **1-4 Credit hours**
Attributes: No Textbook Required
Grade Mode: Normal Grading Mode

HST 486 Independent Study **1-4 Credit hours**
Grade Mode: Normal Grading Mode

HST 487 Independent Study **1-4 Credit hours**
Grade Mode: Normal Grading Mode

HST 488 Independent Study **1-4 Credit hours**
Grade Mode: Normal Grading Mode

Political Science

PSC 104 Am Natl Govt & Politics (CT) **3 Credit hours**
This course will engage students in critical thinking as they explore the American federal government system, with emphasis on constiutionalism, governmental structure, and the political process.
Attributes: American Institutions, Critical Thinking, Core II Social Sciences
Grade Mode: Normal Grading Mode

PSC 105 Fundamentals of Politics (CT) **3 Credit hours**
General survey introducing the study of politics, its major concepts, processes, institutions, and fields of concern, with attention to the place of political science in the larger context of social science inquiry. General survey introducing the study of politics, its major concepts, processes, institutions, and fields of concern, with attention to the place of political science in the larger context of social science inquiry.
Attributes: Critical Thinking, Core II Social Sciences
Grade Mode: Normal Grading Mode

PSC 202 State and Local Government **3 Credit hours**
Study of the institutions, processes, and significance of this level of political life in America. Study of the institutions, processes, and significance of this level of political life in America.
Attributes: American Institutions, Core II Social Sciences
Grade Mode: Normal Grading Mode

PSC 207 Comparative Politics (CT) **3 Credit hours**
Introduction to the field of comparative politics, stressing comparative concepts and approaches to the cross-national study of politics and government, with examination of political systems, ranging from democratic to non-democratic types. Introduction to the field of comparative politics, stressing comparative concepts and approaches to the cross-national study of politics and government, with examination of political systems, ranging from democratic to non-democratic types.
Attributes: Critical Thinking, International, Core II Social Sciences
Grade Mode: Normal Grading Mode

PSC 209 Fund Internatl Relations (CT) **3 Credit hours**
Survey of major concepts and approaches in the study of international relations and analysis of processes, institutions, strategies, and trends in world politics.
Attributes: Critical Thinking, International, Core II Social Sciences
Grade Mode: Normal Grading Mode

PSC 211 Research in Political Science **3 Credit hours**
Study of the development of political science as a distinct science and discipline, and of the fundamentals of research in political science, such as bibliographic techniques, uses of scientific method, textual and case-study approaches and data analysis. Study of the development of political science as a distinct science and discipline, and of the fundamentals of research in political science, such as bibliographic techniques, uses of scientific method, textual and case-study approaches and data analysis.
Pre-req: ENG 201 with a minimum grade of C or ENG 201H with a minimum grade of C or YGS 161 with a minimum grade of C or IST 201 with a minimum grade of D or ENG 202 with a minimum grade of D or ENG 102 with a minimum grade of C or ENG 200H with a minimum grade of C.
Attributes: Core II Social Sciences
Grade Mode: Normal Grading Mode

PSC 233 Intro to Public Policy **3 Credit hours**
Basic concepts and skills in the analysis of public policy problems. Use of policy as an instrument for solving problems. Application to selected fields, for example, environmental policy and urban policy. Basic concepts and skills in the analysis of public policy problems. Use of policy as an instrument for solving problems. Application to selected fields, for example, environmental policy and urban policy.
Attributes: American Institutions, Core II Social Sciences
Grade Mode: Normal Grading Mode

PSC 280 Special Topics **1-4 Credit hours**
To offer a course on some special topic not adequately treated in the regular course offerings. To offer a course on some special topic not adequately treated in the regular course offerings.
Grade Mode: Normal Grading Mode

PSC 281 Special Topics **1-4 Credit hours**
To offer a course on some special topic not adequately treated in the regular course offerings. To offer a course on some special topic not adequately treated in the regular course offerings.
Grade Mode: Normal Grading Mode

PSC 282 Special Topics **1-4 Credit hours**
To offer a course on some special topic not adequately treated in the regular course offerings. To offer a course on some special topic not adequately treated in the regular course offerings.
Grade Mode: Normal Grading Mode

PSC 283 Special Topics **1-4 Credit hours**
To offer a course on some special topic not adequately treated in the regular course offerings. To offer a course on some special topic not adequately treated in the regular course offerings.
Grade Mode: Normal Grading Mode

PSC 303 Amer Political Parties **3 Credit hours**
Examination of the American party system, its origins, development and characteristics. Emphasis also on party organization, political ambition and recruitment, party impact on public policy, campaigns, elections, and voting behavior. Examination of the American party system, its origins, development and characteristics. Emphasis also on party organization, political ambition and recruitment, party impact on public policy, campaigns, elections, and voting behavior.
Attributes: American Institutions
Grade Mode: Normal Grading Mode

PSC 307 Public Opinion and Propaganda **3 Credit hours**
Study of the processes by which individuals acquire politically relevant information, attitudes, values, and opinions; the consequences of these processes for political stability and conflict; and the linkage of mass opinions to elite behavior. (Same as Sociology 307) Study of the processes by which individuals acquire politi- cally relevant information, attitudes, values, and opinions; the consequences of these processes for political stability and conflict; and the linkage of mass opinions to elite be- havior. (Same as Sociology 307)
Attributes: American Institutions
Grade Mode: Normal Grading Mode

PSC 310 Campaigns and Elections **3 Credit hours**
Federal and state laws for campaigns and elections and the changing mechanisms for reaching voters are covered in this course.
Grade Mode: Normal Grading Mode

PSC 311 Issues in Public Policy **3 Credit hours**
A course devoted to a special topic of interest in the policy field, such as energy, health care, transportation, environmental concerns, etc. A course devoted to a special topic of interest in the policy field, such as energy, health care, transportation, environmental concerns, etc.
Grade Mode: Normal Grading Mode

PSC 312 Research in Political Science **3 Credit hours**
Study of the development of political science as a distinct science and discipline, and of the fundamentals of research in political science, such as bibliographic techniques, uses of scientific method, textual and case-study approaches and data analysis.
Grade Mode: Normal Grading Mode

PSC 333 Intro to Public Administration **3 Credit hours**
Introduction to modern theories of administration; the relation of administration to the political system and process; and analysis of administrative organizations and functions, including planning, personnel, and finance. Introduction to modern theories of administration; the re- lation of administration to the political system and pro- cess; and analysis of administrative organizations and functions, including planning, personnel, and finance.
Grade Mode: Normal Grading Mode

PSC 376 Black Politics **3 Credit hours**
Study emphasizing power structures in black communities, dissent and protest, problems and trends, and the uniqueness of black politics as compared with the politics of other ethnic groups. Study emphasizing power structures in black communities, dissent and protest, problems and trends, and the uni- queness of black politics as compared with the politics of other ethnic groups.
Attributes: American Institutions, Multicultural
Grade Mode: Normal Grading Mode

PSC 381 Am Legislative Process **3 Credit hours**
Structure and behavior of American national and state legislative systems; the impact of constituencies, parties, interest groups, interpersonal relations, and other factors on the legislative policymaking process; the role of the legislature as a subsystem in the larger political system; and problems and trends. Structure and behavior of American national and state legislative systems; the impact of constituencies, parties, interest groups, interpersonal relations, and other factors on the legislative policymaking process; the role of the legislature as a subsystem in the larger political system; and problems and trends.
Attributes: American Institutions
Grade Mode: Normal Grading Mode

PSC 382 Student Legislative Prog **1 Credit hour**
One week of intensive legislative observation designed to provide selected students an understanding of the organization and processes of the West Virginia legislature and its role in the making of public policy. One week of intensive legislative observation designed to provide selected students an understanding of the organiza- tion and processes of the West Virginia legislature and its role in the making of public policy.
Grade Mode: Normal Grading Mode

PSC 383 The American Presidency **3 Credit hours**
Study of governmental executives in the American political system, with emphasis on the president, including analysis of constitutional status and powers, recruitment, administrative responsibilities, political and legislative leadership, accountability, and problems and trends. Study of governmental executives in the American political system, with emphasis on the president, including analysis of constitutional status and powers, recruitment, admini- strative responsibilities, political and legislative leader- ship, accountability, and problems and trends.
Attributes: American Institutions
Grade Mode: Normal Grading Mode

PSC 402 Politics of the Undead **3 Credit hours**
An exploration of political thought, international relations theory, and political economy through the pop cultural lens of vampires, zombies, and other undead creatures.
Grade Mode: Normal Grading Mode

PSC 403 War and Pop Culture **3 Credit hours**
An exploration of evolving depictions of political violence in film, television, graphic novels, video games, and popular music.
Attributes: International
Grade Mode: Normal Grading Mode

PSC 405 UN & Global Organizations **3 Credit hours**
Study of world and regional organizations as reflections of world politics, as instruments of foreign policies, and as forces for change and order, with emphasis on their role as channels for management of cooperation and conflict. Study of world and regional organizations as reflections of world politics, as instruments of foreign policies, and as forces for change and order, with emphasis on their role as channels for management of cooperation and conflict.
Attributes: International
Grade Mode: Normal Grading Mode

PSC 406 International Relations **3 Credit hours**
Study of major issues in world politics, with emphasis on theoretical approaches, problems of war and peace, and contemporary trends. Study of major issues in world politics, with emphasis on theoretical approaches, problems of war and peace, and contemporary trends.
Attributes: International
Grade Mode: Normal Grading Mode

PSC 407 Asian Politics **3 Credit hours**
Study of such nations as India, China, Japan, and Korea in the contemporary setting. Study of such nations as India, China, Japan, and Korea in the contemporary setting.
Attributes: International
Grade Mode: Normal Grading Mode

PSC 408 Middle Eastern Politics **3 Credit hours**
Study of the Arab States and such nations as Israel, Iran, and Turkey in the contemporary setting. Study of the Arab States and such nations as Israel, Iran, and Turkey in the contemporary setting.
Attributes: International
Grade Mode: Normal Grading Mode

PSC 409 Western Democratic Politics **3 Credit hours**
Study of such nations as Canada and those of Western Europe, particularly Great Britian and France. Study of such nations as Canada and those of Western Europe, particularly Great Britian and France.
Attributes: International
Grade Mode: Normal Grading Mode

PSC 410 Post Soviet Politics **3 Credit hours**
Study of the politics of Russia and the former Soviet Union. Study of the Soviet Union and Eastern Europe.
Attributes: International
Grade Mode: Normal Grading Mode

PSC 411 Latin American Politics **3 Credit hours**
Study of Latin American politics by sectors, such as landed elites, the military, the church, etc. Various styles of governance are considered. Case examples illustrate concepts discussed. Study of Latin American politics by sectors, such as landed elites, the military, the church, etc. Various styles of governance are considered. Case examples illustrate con- cepts discussed.
Attributes: International
Grade Mode: Normal Grading Mode

PSC 412 International Political Econ **3 Credit hours**
This course will examine the evolution and structure of the global economic system with emphasis on the development of the Liberal International Economic Order.
Grade Mode: Normal Grading Mode

PSC 415 International Law **3 Credit hours**
Study of theories, origins, sources, development, present state, and trends of international law as a factor in various aspects of international politics. Study of theories, origins, sources, development, present state, and trends of international law as a factor in various aspects of international politics.
Attributes: International
Grade Mode: Normal Grading Mode

PSC 416 Politics of Development **3 Credit hours**
A survey of major theories of development and modernization and issues confronting developing nations around the world.
Attributes: International
Grade Mode: Normal Grading Mode

PSC 417 Homeland Sec and Civ Lib **3 Credit hours**
An examination of the policy issues involved in protecting the U.S. homeland from terrorist and other threats, with special attention to the impact such policies have on individual liberties.
Grade Mode: Normal Grading Mode

PSC 418 American Political Thought II **3 Credit hours**
This course is a detailed examination of the philosophical and historical roots of American politics from Reconstruction through the present with emphasis on original texts.
Grade Mode: Normal Grading Mode

PSC 419 Women and Political Thought **3 Credit hours**
This course examines how women were conceptualized in the history of political philosophy and how women then began conceptualizing themselves and their relation to politics.
Grade Mode: Normal Grading Mode

PSC 420 Cur World/Regional Issues **3 Credit hours**
An intensive study of specific world or regional problems, such as the politics of world hunger, the role of multinational corporations, imperialism, Third World Communist movements, etc. An intensive study of specific world or regional problems, such as the politics of world hunger, the role of multi- national corporations, imperialism, Third World Communist movements, etc.
Attributes: International
Grade Mode: Normal Grading Mode

PSC 421 American Political Thought I **3 Credit hours**
This course is a detailed examination of the philosophical and historical roots of American politics from the Colonial era through the Civil War with emphasis on original texts. Study of the development and influence of American Political Thought with an emphasis on the linkage of ideas to political and ecomomic forces.
Grade Mode: Normal Grading Mode

PSC 422 African Political Systems **3 Credit hours**
The study of political systems of selected countries, blocs, or regions. The study of political systems of selected countries, blocs, or regions.
Attributes: International
Grade Mode: Normal Grading Mode

PSC 423 American Foreign Policy **3 Credit hours**
The study of descriptive, analytical, and normative aspects of United States foreign policy with emphasis on contemporary problems and issues. The study of descriptive, analytical, and normative aspects of United States foreign policy with emphasis on contempor- ary problems and issues.
Attributes: American Institutions, International
Grade Mode: Normal Grading Mode

PSC 424 Diplomacy **3 Credit hours**
Application of the comparative method to foreign policy decision-making and outputs. Comparisons within or between geographic regions. Application of the comparative method to foreign policy decision-making and outputs. Comparisons within or between geographic regions.
Attributes: International
Grade Mode: Normal Grading Mode

PSC 425 Classical Political Thought **3 Credit hours**
Selective study of classics of Western political theory from earliest times through the 15th century, such as that of Plato, Aristotle, the Romans, Augustine, and Aquinas.
Grade Mode: Normal Grading Mode

PSC 426 Modern Political Thought **3 Credit hours**
Selective study of classics of Western political theory from the 16th century through the 19th century, such as that of Machiavelli, Bodin, Hobbes, Locke, Rousseau, Hume, Burke, Mill, and Marx.
Grade Mode: Normal Grading Mode

PSC 427 Shapers and Definers **3 Credit hours**
A study of political leaders who have shaped and defined the American constitutional tradition.
Grade Mode: Normal Grading Mode

PSC 428 Islam and Politics **3 Credit hours**
Study of Islamic political ideas, practices, and institutions and their impact on the rise and development of contemporary Islamic movements, organizations, and states. Study of Islamic political ideas, practices, and institut- ions and their impact on the rise and development of con- temporary Islamic movements, organizations, and states.
Attributes: International
Grade Mode: Normal Grading Mode

PSC 429 Politics of Confl & Rev **3 Credit hours**
Study of major theories of conflict and revolution with emphasis on cross-national explanations and outcomes. Study of major theories of conflict and revolution with em- phasis on cross-national explanations and outcomes.
Attributes: International
Grade Mode: Normal Grading Mode

PSC 430 Political Ideologies **3 Credit hours**
This course examines modern political ideologies including Liberalism, Conservatism, Anarchism, Socialism, Facism, Feminism, and Environmentalism with emphasis on the original texts.
Grade Mode: Normal Grading Mode

PSC 431 Pol of Global Terrorism **3 Credit hours**
An examination of terrorism globally, both in its development and its current manifestations, with attention to its attractions, the difficulties of confronting it, and its implications for democratic society. Draws upon both classic and contemporary sources of politi- cal theory to address basic political issues inherent in public problems.
Grade Mode: Normal Grading Mode

PSC 432 Nonprofit Management **3 Credit hours**
This course examines the principles and applied practices of nonprofit administration including theories of nonprofit formation, fundraising appeals, executive leadership, marketing, budgeting, and strategic management.
Grade Mode: Normal Grading Mode

PSC 433 Public Adm & Policy Dev **3 Credit hours**
Examination of alternative theoretical approaches to the study of policy and administration and their implications for the use of policy to shape administrative practice. Examination of alternative theoretical approaches to the study of policy and administration and their implications for the use of policy to shape administrative practice.
Attributes: American Institutions
Grade Mode: Normal Grading Mode

PSC 434 Intel and Covert Ops **3 Credit hours**
An introduction to the institutions and processes of the U.S. Intelligence Community, with an emphasis on the vital role of intelligence in national security.
Grade Mode: Normal Grading Mode

PSC 435 Harry Potter and Pol. Theory **3 Credit hours**
Detailed examination of the Harry Potter book series through the lens of various theories and theorists of power, with emphasis on scholarly argumentation and writing.
Grade Mode: Normal Grading Mode

PSC 436 The American Judiciary **3 Credit hours**
Structure and behavior in American national and state judicial systems, including analysis of their decision making and policy making functions, their procedures and administration, and problems and trends. Structure and behavior in American national and state judi- cial systems, including analysis of their decision making and policy making functions, their procedures and administ- ration, and problems and trends.
Attributes: American Institutions
Grade Mode: Normal Grading Mode

PSC 440 Power in American Society **3 Credit hours**
Examination of some of the major theoretical approaches pluralistic, elitist, etc. to the study of power. A major concern is the relationship between the distribution of political resources and the performance of political systems. Efforts to transform political systems are examined on the basis of cross-national research. Examination of some of the major theoretical approaches - pluralistic, elitist, etc. - to the study of power. A major concern is the relationship between the distribution of political resources and the performance of political systems. Efforts to transform political systems are exam- ined on the basis of cross-national research.
Attributes: American Institutions
Grade Mode: Normal Grading Mode

PSC 442 Politics of Poverty **3 Credit hours**
A comparative course examining the political institutional methods states use to assist citizens who are poor, primarily women and children. It also addresses behavioral concerns that shape welfare policy.
Grade Mode: Normal Grading Mode

PSC 444 Dictatorship & Democracy **3 Credit hours**
An investigation of the strengths of democracies relative to dictatorships with regard to such dimensions as economic growth, income equality, health and welfare of citizens and war reductions.
Grade Mode: Normal Grading Mode

PSC 445 Environmental Politics **3 Credit hours**
This course examines multiple prespectives on the relationship between humans and nature, focusing on how particular interpretations of this relationship determine how we translate environmental concerns into political problems.
Grade Mode: Normal Grading Mode

PSC 446 Politics in History **3 Credit hours**
A study of politics as an order shattering, order restructuring force during some of America's most transformative moments.
Grade Mode: Normal Grading Mode

PSC 450 Administrative Law **3 Credit hours**
A study of the basic legal framework of administrative organization, including the problems of administrative discretion, rule-making and adjudication, regulatory agencies, and administrative responsibility in the democratic state. A study of the basic legal framework of administrative or- ganization, including the problems of administrative dis- cretion, rule-making and adjudication, regulatory agencies, and administrative responsibility in the democratic state.
Grade Mode: Normal Grading Mode

PSC 452 Public Personnel Admin **3 Credit hours**
Survey of Public Personnel Administration with particular attention to various facets of the merit system concept. Psychological and human relations aspects of the work situation and supervisor-subordinate interaction emphasized. Survey of Public Personnel Administration with particular attention to various facets of the merit system concept. Psychological and human relations aspects of the work situation and supervisor-subordinate interaction emphasized.
Grade Mode: Normal Grading Mode

PSC 453 Government Budgetary Admin **3 Credit hours**
Study of organization, administration, and accountability in the management of public funds, with emphasis on the political decision-making processes of budget formulation, presentation and execution. Study of organization, administration, and accountability in the management of public funds, with emphasis on the political decision-making processes of budget formulation, presentation and execution.
Grade Mode: Normal Grading Mode

PSC 454 Politics of the Workplace **3 Credit hours**
A study of the contributions of the behavioral sciences to the study of organizations with stress on such concepts as leadership, motivation, power conflict, organizational design and decision making. A study of the contributions of the behavioral sciences to the study of organizations with stress on such concepts as leadership, motivation, power conflict, organizational design and decision making.
Grade Mode: Normal Grading Mode

PSC 460 Civil Rights & Liberties **3 Credit hours**
Pre-req: PSC 104 or PSC 104E.
Grade Mode: Normal Grading Mode

PSC 461 Urban Prob & Pub Policy **3 Credit hours**
Study of policy problems of metropolitan areas in terms of structures, alternatives, and outcomes. Study of policy problems of metropolitan areas in terms of structures, alternatives, and outcomes.
Attributes: American Institutions
Grade Mode: Normal Grading Mode

PSC 466 Appalachian Politics **3 Credit hours**
Explores Appalachia as both a geographical region and a political construct, focusing on how politics shapes regional identity and the region's relationship to the United States.
Grade Mode: Normal Grading Mode

PSC 478 Politics and Video Games **3 Credit hours**
An exploration of the power dynamics and politics at play in video games, the video game industry, and gaming culture.
Attributes: Digital Humanities
Grade Mode: Normal Grading Mode

PSC 480 Special Topics **1-4 Credit hours**
To offer a course on some special topic which is not adequately treated in the regular course offerings. To offer a course on some special topic which is not ad- equately treated in the regular course offerings.
Grade Mode: Normal Grading Mode

PSC 481 Special Topics **1-4 Credit hours**
To offer a course on some special topic which is not adequately treated in the regular course offerings. To offer a course on some special topic which is not ad- equately treated in the regular course offerings.
Grade Mode: Normal Grading Mode

PSC 482 Special Topics **1-4 Credit hours**
To offer a course on some special topic which is not adequately treated in the regular course offerings. To offer a course on some special topic which is not ad- equately treated in the regular course offerings.
Grade Mode: Normal Grading Mode

PSC 483 Special Topics **1-4 Credit hours**
To offer a course on some special topic which is not adequately treated in the regular course offerings. To offer a course on some special topic which is not ad- equately treated in the regular course offerings.
Grade Mode: Normal Grading Mode

PSC 484 Constitutional Law **3 Credit hours**
Introduction to the principles of American constitutional law and analysis of constitutional issues, emphasizing leading Supreme Court cases. Introduction to the principles of American constitutional law and analysis of constitutional issues, emphasizing leading Supreme Court cases.
Pre-req: PSC 104E or PSC 104.
Attributes: American Institutions
Grade Mode: Normal Grading Mode

PSC 485 Independent Study **1-4 Credit hours**
These numbers are reserved for tutorials, directed and independent readings, directed and independent research, problem reports, etc. These numbers are reserved for tutorials, directed and in- dependent readings, directed and independent research, problem reports, etc.
Attributes: No Textbook Required
Grade Mode: Normal Grading Mode

PSC 486 Independent Study **1-4 Credit hours**
These numbers are reserved for tutorials, directed and independent readings, directed and independent research, problem reports, etc. These numbers are reserved for tutorials, directed and in- dependent readings, directed and independent research, problem reports, etc.
Grade Mode: Normal Grading Mode

PSC 487 Independent Study **1-4 Credit hours**
These numbers are reserved for tutorials, directed and independent readings, directed and independent research, problem reports, etc. These numbers are reserved for tutorials, directed and in- dependent readings, directed and independent research, problem reports, etc.
Grade Mode: Normal Grading Mode

PSC 488 Independent Study **1-4 Credit hours**
These numbers are reserved for tutorials, directed and independent readings, directed and independent research, problem reports, etc. These numbers are reserved for tutorials, directed and in- dependent readings, directed and independent research, problem reports, etc.
Grade Mode: Normal Grading Mode

PSC 489 Seminar in Public Service **3 Credit hours**
Grade Mode: Normal Grading Mode

PSC 490 Public Service Internship **6 Credit hours**
Grade Mode: Normal Grading Mode

PSC 499 Capstone Experience **3 Credit hours**
This course is designed as a culminating experience for seniors. Students will engage in a service learning project that combines scholarly interests with real life skills. Course offered only in Fall Semester. This course is designed to integrate political theory with politics by considering the relevance of political phil- osophy to contemporary political questions. Capstone ex- perience must be completed in the senior year.
Pre-req: PSC 211 with a minimum grade of D.
Attributes: Capstone Course
Grade Mode: Normal Grading Mode

Sociology

SOC 200 Introductory Sociology (CT) **3 Credit hours**
Introduction to the study of human society. This class emphasizes critical thinking skills. Introduction to the study of human society. This class emphasizes critical thinking skills.
Attributes: American Institutions, Critical Thinking, Multicultural, Core II Social Sciences
Grade Mode: Normal Grading Mode

SOC 200H Intro Sociology Honors (CT) **3 Credit hours**
Introduction to the study of human society for the honors student. This course emphasizes critical thinking skills.
Pre-req: Admitted Honors College with a score of 1.
Attributes: American Institutions, Critical Thinking, Honors, Multicultural, Core II Social Sciences
Grade Mode: Normal Grading Mode

SOC 280 Special Topics **1-4 Credit hours**
Selected topics not covered in regular course offerings. Selected topics not covered in regular course offerings.
Grade Mode: Normal Grading Mode

SOC 281 Special Topics **1-4 Credit hours**
Selected topics not covered in regular course offerings. Selected topics not covered in regular course offerings.
Grade Mode: Normal Grading Mode

SOC 282 Special Topics **1-4 Credit hours**
Selected topics not covered in regular course offerings. Selected topics not covered in regular course offerings.
Grade Mode: Normal Grading Mode

SOC 283 Special Topics **1-4 Credit hours**
Selected topics not covered in regular course offerings. Selected topics not covered in regular course offerings.
Grade Mode: Normal Grading Mode

SOC 300 Social Organization **3 Credit hours**
Analysis of sociological conceptual systems and theories. Analysis of sociological conceptual systems and theories.
Attributes: American Institutions
Grade Mode: Normal Grading Mode

SOC 310 Individual and Society **3 Credit hours**
Study of sociological perspectives on social interaction and the relationship between the individual and society.
Attributes: American Institutions
Grade Mode: Normal Grading Mode

SOC 311 Deviance and Social Control **3 Credit hours**
Study of the basic concepts and theories of deviant behavior and the mechanism of social control.
Attributes: American Institutions
Grade Mode: Normal Grading Mode

SOC 313 Contemp Soc Issues and Prob **3 Credit hours**
Analysis of current social issues and problems from a variety of sociological perspectives. Issues and problems will vary from semester to semester.
Pre-req: SOC 200 or SOC 200H or SOC 200E.
Attributes: American Institutions
Grade Mode: Normal Grading Mode

SOC 330 Soc of Community Health **3 Credit hours**
An investigation of those social institutions and environmental, social, and personal factors in the community to maintain health and provide support in illness as related to social theory..
Attributes: American Institutions
Grade Mode: Normal Grading Mode

SOC 342 American Society **3 Credit hours**
Sociological analysis of the basic and cultural features of contemporary American society. Sociological analysis of the basic and cultural features of contemporary American society.
Attributes: American Institutions
Grade Mode: Normal Grading Mode

SOC 344 Social Research I **3 Credit hours**
Introduction to systematic social research methodology. Introduction to systematic social research methodology.
Pre-req: SOC 200 or SOC 200H.
Grade Mode: Normal Grading Mode

SOC 345 Social Statistics I **3 Credit hours**
Introudction to statistical analysis of social data. Introudction to statistical analysis of social data.
Pre-req: SOC 200 with a minimum grade of D or SOC 200H with a minimum grade of D.
Attributes: Statistics
Grade Mode: Normal Grading Mode

SOC 360 Sociological Theory **3 Credit hours**
Introduction to the dominant theoretical perspectives in sociology examining the assumptions about human nature, society and sociology that constitute each theoretical tradition.
Pre-req: SOC 200 or SOC 200H.
Grade Mode: Normal Grading Mode

SOC 362 Health, Culture and Society **3 Credit hours**
A cross-cultural, historical, and bio-cultural examination through case-study of social and environmental factors that affect human health and disease.
Pre-req: ANT 201 or ANT 201H or SOC 200 or SOC 200H.
Attributes: Multicultural
Grade Mode: Normal Grading Mode

SOC 375 Social Stratification **3 Credit hours**
Introduction to the analysis of structured social inequality with emphasis on the dimensions of social class, race and gender.
Attributes: American Institutions
Grade Mode: Normal Grading Mode

SOC 401 Population & Human Ecology **3 Credit hours**
The course focuses on population and its relation to characteristics of environment. Specifically, it is designed to discuss the interaction of population processes and resources.
Attributes: International
Grade Mode: Normal Grading Mode

SOC 403 Social Research II **3 Credit hours**
Intermediate social research methodology with emphasis on research design. Intermediate social research methodology with emphasis on research design.
Pre-req: SOC 344.
Grade Mode: Normal Grading Mode

SOC 408 The Family **3 Credit hours**
Theoretical analysis of the family as a primary social institution. Theoretical analysis of the family as a primary social institution.
Pre-req: SOC 200 or SOC 200H.
Attributes: American Institutions
Grade Mode: Normal Grading Mode

SOC 413 Social Movements & Soc Change **3 Credit hours**
Analysis of large-scale social change, including intentional social movements and revolutions.
Attributes: American Institutions
Grade Mode: Normal Grading Mode

SOC 420 Criminology **3 Credit hours**
An overview of sociological criminology, including an examination of explanations of criminal behavior, types of criminal activity, and an analysis of the criminal justice system.
Attributes: American Institutions
Grade Mode: Normal Grading Mode

SOC 423 Social Class Power & Conflict **3 Credit hours**
Theoretical analysis of economic and political inequality and the role of social conflict in the process of large- scale social organization.
Attributes: American Institutions
Grade Mode: Normal Grading Mode

SOC 425 Race and Ethnicity **3 Credit hours**
Diverse theoretical approaches to the meaning of race and ethnicity and the character of racial/ethnic relations, with substantive focus primarily on the U.S.
Attributes: American Institutions
Grade Mode: Normal Grading Mode

SOC 430 Women in Sports **3 Credit hours**
The history of women in sport, gender equity, opportunities for women in intercollegiate and professional sports (such as participant, coach, trainer, journalist, agent, and promoter), and physiological perspectives.
Grade Mode: Normal Grading Mode

SOC 432 Sociology of Appalachia **3 Credit hours**
Study of the economics, politics, and social relations of Appalachia, including contemporary debates.
Grade Mode: Normal Grading Mode

SOC 433 Sociology of Work **3 Credit hours**
Study of the organization and structure of the work plant as a social system; the meaning and organization of work; managerial functions; management-labor relations; and human relations in industry. Study of the organization and structure of the work plant as a social system; the meaning and organization of work; mana- gerial functions; management-labor relations; and human re- lations in industry.
Attributes: American Institutions
Grade Mode: Normal Grading Mode

SOC 440 Intro to the Soc of Aging **3 Credit hours**
An introduction to the social processes and consequences of growing older for both the individual and society.
Pre-req: SOC 200 or SOC 200H.
Grade Mode: Normal Grading Mode

SOC 442 Urban Sociology **3 Credit hours**
The sociology of urban and metropolitan communities. The sociology of urban and metropolitan communities.
Attributes: American Institutions
Grade Mode: Normal Grading Mode

SOC 443 Evaluation and Survey Research **3 Credit hours**
Analysis and application of principles/methods of survey design and the theories/methods for assessing the outcomes of applied organizational programs to affect change in people and/or social conditions.
Grade Mode: Normal Grading Mode

SOC 450 Sociology of Religion **3 Credit hours**
Sociological analysis of religion as a social institution. Sociological analysis of religion as a social institution.
Attributes: American Institutions
Grade Mode: Normal Grading Mode

SOC 451 Science, Knowledge, and Tech **3 Credit hours**
Exploration of the effects of social factors on the development and authorization of knowledge claims, especially science and technology. Retirement is examined as a process, an event, and a role. Retirement is analyzed from the point of view of the in- dividual and society.
Pre-req: SOC 200.
Grade Mode: Normal Grading Mode

SOC 452 Soc of Death & Dying **3 Credit hours**
Study of death and dying as a societal and cultural phenomenon. Explores how institutions within our society deal with death. Study of death and dying as a societal and cultural phe- nomenon. Explores how institutions within our society deal with death.
Pre-req: SOC 200 with a minimum grade of D or SOC 200H with a minimum grade of D.
Grade Mode: Normal Grading Mode

SOC 455 Sociology of Sex and Gender **3 Credit hours**
Analysis of social differentiation and inequality by gender, with a focus on the contemporary U.S.
Grade Mode: Normal Grading Mode

SOC 460 Holocaust and Genocide **3 Credit hours**
An examination of the Holocaust and other genocides from an interdisciplinary social science perspective. An examination of the Holocaust and other genocides from an interdisciplinary social science perspective.
Grade Mode: Normal Grading Mode

SOC 465 Environment and Society **3 Credit hours**
A critical examination of the link between society and the environment, including ideas about nature, wilderness, and the wild causes of environmental degradation and responses to the environmental issues.
Grade Mode: Normal Grading Mode

SOC 466 Culture and Environment **3 Credit hours**
This course will examine the symbolic and structural dimensions of struggles over defining, organizing, and controlling the natural environment from a biocultural perspective.
Attributes: International
Grade Mode: Normal Grading Mode

SOC 468 National Identity **3 Credit hours**
Exploration of cultural, political and economic processes that contribute to creation and maintenance of the modern nation state as an imagined community.
Grade Mode: Normal Grading Mode

SOC 470 Field Exper in Applied SOC **3-6 Credit hours**
Supervised fieldwork in public or private agencies affording students an opportunity to apply sociological knowledge and skills in addressing practical problems.
Grade Mode: Normal Grading Mode

SOC 480 Special Topics **1-4 Credit hours**
Study of topics of interest not covered in regularly scheduled courses. Study of topics of interest not covered in regularly scheduled courses.
Grade Mode: Normal Grading Mode

SOC 481 Special Topics **1-4 Credit hours**
Study of topics of interest not covered in regularly scheduled courses. Study of topics of interest not covered in regularly scheduled courses.
Grade Mode: Normal Grading Mode

SOC 482 Special Topics **1-4 Credit hours**
Study of topics of interest not covered in regulary scheduled courses. Study of topics of interest not covered in regulary scheduled courses.
Grade Mode: Normal Grading Mode

SOC 483 Special Topics **1-4 Credit hours**
Study of topics of interest not covered in regularly scheduled courses. Study of topics of interest not covered in regularly scheduled courses.
Grade Mode: Normal Grading Mode

SOC 485 Independent Study **1-4 Credit hours**
Individual study of topics not offered in regularly scheduled courses. Advance permission required. Individual study of topics not offered in regularly scheduled courses. Advance permission required.
Grade Mode: Normal Grading Mode

SOC 486 Independent Study **1-4 Credit hours**
Individual study of topics not offered in regularly scheduled courses. Advance permission required. Individual study of topics not offered in regularly scheduled courses. Advance permission required.
Grade Mode: Normal Grading Mode

SOC 487 Independent Study **1-4 Credit hours**
Individual study of topics not offered in regularly scheduled courses. Advance permission required. Individual study of topics not offered in regularly scheduled courses. Advance permission required.
Grade Mode: Normal Grading Mode

SOC 488 Independent Study **1-4 Credit hours**
Individual study of topics not offered in regularly scheduled courses. Advance permission required. Individual study of topics not offered in regularly scheduled courses. Advance permission required.
Grade Mode: Normal Grading Mode

SOC 489 Internship **1-4 Credit hours**
Supervised practicum founded on sociological knowledge in a host institution. 40-45 hours of internship work correspond with 1 credit hour. Supervised practicum founded on sociological knowledge in a host institution. 40-45 hours of internship work correspond with 1 credit hour.
Grade Mode: Normal Grading Mode

SOC 492 Senior Seminar I **3 Credit hours**
Application of sociological theory and practice to individually designed projects. This course fulfills the capstone requirement for undergraduate majors. (PR: sociology major in senior standing or departmental permission)
Grade Mode: Normal Grading Mode

SOC 493 Senior Seminar II **3 Credit hours**
Application of sociological theory and practice to individually designed projects. Fulfills the capstone requirement for undergraduate majors. (PR: Anthrolpology major in senior standing or departmental permission)
Attributes: Capstone Course
Grade Mode: Normal Grading Mode

Women's Studies

WS 101 Intro to Women's Studies **3 Credit hours**
Historical and social problems of women. Draws upon literature, history, psychology, sociology and economics to illuminate problems women face today. Historical and social problems of women. Draws upon literature, history, psychology, sociology and economics to illuminate problems women face today.
Grade Mode: Normal Grading Mode

WS 480 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

WS 481 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

WS 482 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

WS 483 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

WS 485 Independent Study **1-4 Credit hours**
Grade Mode: Normal Grading Mode

WS 486 Independent Study **1-4 Credit hours**
Grade Mode: Normal Grading Mode

WS 487 Independent Study **1-4 Credit hours**
Grade Mode: Normal Grading Mode

WS 488 Independent Study **1-4 Credit hours**
Grade Mode: Normal Grading Mode

Addiction Studies, Minor

Elizabeth Pacioles
caseyel@marshall.edu
www.marshall.edu/addictionstudies (http://www.marshall.edu/addictionstudies/)

Instead of focusing strictly on treatment for addiction, the aim of this minor is to take advantage of the interdisciplinary structure of the university in order to incorporate the perspectives and expertise of as many faculty, students, and community members as possible. The goal is to create innovative thinkers on this issue in order to provide evidence-based models of dealing with possibly the biggest drug epidemic in world history. In addition to a focus on substance use disorder, approved courses for this minor may address behavioral addictions as well.

Students must take at least 15 hours of courses related to addiction (as approved by the Addiction Studies committee), in at least two disciplines, at least 9 of which must be upper level. Each semester additional approved courses are updated on the addiction studies webpage listed above.

Approved Addiction Studies Courses

Code	Title	Credit Hours
HST 305	Drug Wars	3
SWK 260	Substance Use and SWK	3
CJ 340	Drugs and Crime	3
PSY 440	Physiological Psychology	3
Total Credit Hours		**12**

African and African American Studies, Minor

The minor in African and African American Studies is designed to supplement a student's academic major with an interdisciplinary understanding of the history, social and political life, culture, and geography of the African Diaspora. The program utilizes an interdisciplinary approach whereby students engage in critical thinking across the spectrum of various disciplines such as geography, literature, history, social work, Political Science, fine arts, education, and sociology. The AAAS program serves students who are interested in understanding the cultural contributions and historical legacies of peoples of African ancestry in the United States and throughout Asia, Africa, South America and the Caribbean. The AAAS program also serves Marshall University and the Huntington community through local research and programming in the field of African and African American Studies.

Program Requirements

Students must complete at least 12 credit hours in approved AAAS courses with a minimum cumulative GPA of 2.5. At least six of the 12 credit hours must be in courses numbered 300 or above. Because this is an interdisciplinary minor, students must complete coursework in at least 2 academic programs. In addition to the courses on the following list, students may use up to six credit hours earned in Special Topics courses and up to six credit hours earned in Independent Study to complete the requirement for the AAAS minor upon approval by the Director of African and African American Studies. At least 6 credits must have been completed at Marshall University; up to six credit hours in AAAS coursework completed at another accredited institution may be approved by the Director of African and African American Studies. No more than 3 credit hours taken on a credit/no credit basis may count toward completion of the minor.

Approved AAAS Courses

Code	Title	Credit Hours
ANT 440	African Cultures	3
CI 459	Multicult Influence in Ed	3
CJ 406	Race, Ethnicity, Class & Crime	3
ENG 240	African American Literatures	3
HST 301	Lat Am Discovery-Independ	3
HST 312	African-American History	3
HST 360	Sports and Civil Rights	3
HST 365	The Civil Rights Movement	3
JMC 455	Race Gender & Mass Media	3

MUS 171	African Drum & Dance Ens	1
PSC 376	Black Politics	3
PSC 422	African Political Systems	3
PSC 460	Civil Rights & Liberties	3
SOS 207	Prob Multicult Society	3
SOC 425	Race and Ethnicity	3

Asian Studies, Minor

Dr. Anara Tabyshalieva
tabyshalieva@marshall.edu

A student may earn a minor in Asian Studies by completing at least 15 credit hours from the courses listed below and/or any Special Topics or Independent Study courses that focus mainly on Asia and that have been approved by the Director of Asian Studies. No more than 3 credit hours from courses taken on a credit/no credit basis can count toward the minor. Up to 6 credit hours can be transferred from another accredited institution; such courses must be approved by the Director of Asian Studies.

Asian Studies Courses

Code	Title	Credit Hours
HST 265	Modern East Asia	3
HST 378	Modern Asia	3
HST 380	Asia to 1600	3
HST 435	Modern Japan	3
HST 436	Modern China	3
HST 439	Modern China through Film	3
JPN 203	Intermediate Japanese III	3
JPN 204	Intermediate Japanese IV	3
JPN 304	Premodern Japanese Literature	3
JPN 315	Advanced Japanese II	3
PSC 407	Asian Politics	3
RST 206	Religious Traditions Asia	3
RST 360	Hindu Mysticism	3
RST 361	Buddhism	3

Constitutional Democracy, Minor

Patricia Proctor
patricia.proctor@marshall.edu

The minor in Constitutional Democracy, administered through the Simon Perry Center for Constitutional Democracy, brings together different disciplines to study our Constitutional government and different perspectives related to our law and politics. It is designed to promote the study of the U.S. Constitution, the Supreme Court, the legal application of the Constitution, and U.S. politics and governance. It is also focused on developing critical thinking skills and learning about subject matter useful in understanding the law. It includes courses that demonstrate the role of powerful forces in shaping the nature of our constitutional system over a long period of time and highlights the roles of some of America's greatest leaders in this effort. In addition, this minor is particularly useful for students considering applying to law school after graduation, as it includes courses from a variety of disciplines that will be useful in the study of law.

The interdisciplinary minor in Constitutional Democracy is a 15-hour minor that requires students to take:

Code	Title	Credit Hours
PSC 104	Am Natl Govt & Politics (CT)	3
Select one of the following:		3
PSC 427	Shapers and Definers	
PSC 446	Politics in History	
PSC 484	Constitutional Law	
HST 342	American Legal History	
PHL 460	Phil of Politics & Power	
Select three of the following:		9
PSC 207	Comparative Politics (CT)	
PSC 303	Amer Political Parties	
PSC 307	Public Opinion and Propaganda	
PSC 376	Black Politics	
PSC 417	Homeland Sec and Civ Lib	
PSC 418	American Political Thought II	
PSC 419	Women and Political Thought	
PSC 421	American Political Thought I	
PSC 427	Shapers and Definers	
PSC 429	Politics of Confl & Rev	
PSC 436	The American Judiciary	
PSC 440	Power in American Society	
PSC 444	Dictatorship & Democracy	
PSC 446	Politics in History	
PSC 460	Civil Rights & Liberties	
PSC 484	Constitutional Law	
ENG 220	The Political Novel	
HST 342	American Legal History	
HST 409	American Revolution	
HST 414	Am Civil War & Reconstruc	
HST 433	In Our Time-Am Since 1945	
PHL 200	Intro Phil Ancient Period (CT)	
PHL 201	Intro Phil Modern Period (CT)	
PHL 303	Ethics	
PHL 304	Logic & Interpretation	
PHL 451	Phil of History & Culture	
PHL 460	Phil of Politics & Power	
SOC 342	American Society	
SOC 423	Social Class Power & Conflict	
SOC 425	Race and Ethnicity	
SOC 468	National Identity	
Total Credit Hours		**15**

Digital Humanities, Minor

Dr. Stefan Schöberlein
schoeberleis@marshall.edu

www.marshall.edu/digitalhumanities (http://www.marshall.edu/digitalhumanities/)

To earn a minor in Digital Humanities, a student must complete at least 15 credits in approved Digital Humanities courses with a minimum GPA of 2.5. Other requirements:

- Students must take DH 201 Intro to Digital Humanities
- 12 additional credit hours in courses related to Digital Humanities.
- Because this is an interdisciplinary minor, students must complete coursework in at least 3 academic departments.
- At least 9 credit hours must have been completed at Marshall University. Students may utilize up to 6 credit hours in Digital Humanities coursework completed at another accredited institution with the approval of the Director of Digital Humanities.
- At least 6 of 15 credit hours must be in courses numbered 300 or above.
- In addition to the courses on the following list, students may include up to 9 credits earned in Special Topics courses, including Honors Seminars, and up to 3 credits earned in Independent Study, provided these courses have been approved by the Director of Digital Humanities for completion of the Digital Humanities minor.
- No courses taken on a credit/no credit basis can count toward completion of the minor.

Courses

Among the courses that may fulfill the Digital Humanities minor are the following:

Code	Title	Credit Hours
ANT 464	Design, Planning & Health	3
ANT 465	Disaster, Culture & Health	3
ART 219	Foundations: Frame/Time	3
ART 318	Art/Design for Websites	3
CS 110	Computer Science I	3
CS 120	Computer Science II	3
DH 201	Intro to Digital Humanities	3
ENG 263	Intro Digital Literary Studies	3
ENG 408	Writing in the Digital World	3
GEO 110	Basic GIS	1
GEO 111	Air Photos & Satellite Imagery	1
GEO 112	Smartphone GPS	1
GEO 113	Web GIS	1
GEO 426	Principles of GIS	4
JMC 241	Media Design	3
JMC 260	Digital Imaging for JMC	3
JMC 361	Digital Presence	3
JMC 462	Web Design for Mass Media	3

The following courses count toward a Digital Humanities minor only when taught by approved faculty. Please check the program website or e-mail the Director of Digital Humanities for a list of approved faculty.

Code	Title	Credit Hours
ENG 344	Introduction to Film Studies	3
ENG 440	Selected Topics in Film	3
HST 303	American Military History	3
HST 312	African-American History	3
HST 437	Seminar in Public History	3
HST 438	Stuff and Things in History	3

Film Studies, Minor

Dr. Walter Squire
squirew@marshall.edu
www.marshall.edu/filmstudies (http://www.marshall.edu/filmstudies/)

To earn a minor in Film Studies, a student must complete at least 15 credits in approved Film Studies courses with a minimum GPA of 2.5. Other requirements:

1. ENG 344 Introduction to Film Studies, a 3-credit course, is required.
2. 12 additional credits in courses that focus primarily upon film or related art forms.
3. Because this is an interdisciplinary minor, students must complete coursework in at least 3 academic departments or schools.
4. No more than 9 credits in any one department or school.
5. At least 9 credits must have been completed at Marshall University. Students may utilize up to six credits in Film Studies coursework completed at other accredited institutions with the approval of the Director of Film Studies.
6. No more than 3 credits in independent study.
7. 6 of the 15 credits must be in courses numbered 300 and above.
8. No credits taken on a credit/no credit basis.

Courses

Among the courses that may fulfill the Film Studies minor are the following:

Code	Title	Credit Hours
ANT 365	Anthropology through Film	3
ART 315	Intro to Photography	3
ART 325	Image Visualization: Digital	3
ART 453	Motion Design I	3
CMM 239	Dev & Appreciation of Film	3
CMM 441	Dev Appr Film Since 1930	3
ENG 232	Good Films	3
ENG 344	Introduction to Film Studies	3
ENG 440	Selected Topics in Film	3
ENG 442	Gender and Sexuality in Film	3
ENG 445	Screenwriting	3
FRN 417	Contemporary Frn Film	3
HST 439	Modern China through Film	3
HST 447	Film and Empire	3
JMC 260	Digital Imaging for JMC	3
JMC 332	Intro to Video Production	3
JMC 432	AD-PR Video Production	3

JMC 434	Advanced Video	3
JMC 475	Documentary Journalism	3
JPN 250	Japanese Anime & Manga (CT)	3
JPN 403	Japanese Film in English	3
MUS 219	Digital Recording Techniques	2
SPN 417	Spanish Film	3
SPN 418	Latin American Film	3
SPN 419	Against Oppression SPN LA Film	3
THE 111	Introduction to Acting	3
THE 201	Crit Analysis Theatre Lit	3
THE 240	Stage Lighting I	4
THE 354	Stage Make-up	3

In addition to the courses on this list, students may use up to nine credits earned in Special Topics courses, including Honors Seminars, and up to three credits earned in Independent Study to complete the requirement for the Film Studies minor, provided these courses have been approved by the Director of Film Studies for completion of the Film Studies minor.

Latin American Studies, Minor

Dr. Chris White
whitec@marshall.edu

A student may earn a minor in Latin American Studies by completing at least 15 credit hours from the courses listed below and/or any 300- and 400-level Special Topics or Independent Study courses that focus on Latin America and that have been approved by the Director of Latin American Studies. Since it is an interdisciplinary program, students are not confined to taking courses in one department; however, all 15 credit hours can be from a single department. Up to 6 credit hours can be transferred from another accredited institution with the approval of the Director of Latin American Studies. The director may allow up to 12 credit hours to apply if earned at a Latin American university during study abroad. No more than 3 credit hours taken on a credit/no credit basis may count toward the minor. A student must have a minimum GPA of 2.5 in the courses counting toward the minor.

Latin American Studies Courses

Code	Title	Credit Hours
GEO 408	Geog of South & Middle America	3
HST 301	Lat Am Discovery-Independ	3
HST 302	Lat Am Independence-Pres	3
HST 305	Drug Wars	3
PSC 411	Latin American Politics	3
SPN 335	Latin Am Culture & Civiliza	3
SPN 411	Pre-Modern Latin Am Lit	3
SPN 412	Contemporary Lat Am Lit	3
SPN 413	Lit Genres & Issues in LA	3
SPN 417/418	Spanish Film	3
SPN 435	Contemporary Latin Am Culture	3

Sexuality Studies, Minor

Dr. Shawn Schulenberg
schulenberg@marshall.edu
www.marshall.edu/sexualitystu/ (https://www.marshall.edu/sexualitystu/)

Through the Sexuality Studies minor a new generation engages in research and understanding of a critical aspect of human experience. The minor offers students a greater understanding of the histories of, development of, and variations in sexual cultures, sexual identities, sexual discourses, intimate relationships, and sexual health. Foregrounding sexuality as a central, rather than peripheral, category of social and cultural analysis, it encourages students to apply the category across disciplines of cultural studies, history, literature, social sciences, and sciences.

A student may earn a minor in Sexuality Studies by completing Introduction to Sexuality Studies and at least 12 additional credit hours. Those credit hours must be earned in courses that focus primarily on human sexuality issues, with at least 3 hours from each of the following two categories: Literary and Cultural Studies and Social Sciences (Anthropology, Classics, Communication Studies, Economics, English, Fine Arts, History, Modern Languages, Political Science, Sociology); Behavioral and Natural Sciences (Biology, Psychology, Allied Health Professions, Nursing, Social Work). A student must obtain approval from the chair of the Sexuality Studies Committee for all courses the student wants counted toward the minor. No more than 9 credit hours can be earned in any one department. At least 9 credit hours must be earned in 300- and 400-level courses. No more than 6 credit hours in Independent Study courses can count toward the minor. No courses taken on a credit/no credit basis can count toward the minor. Up to 6 credit hours can be transferred from another accredited institution; such courses must be approved by the Chair of the Sexuality Studies Committee.

Some approved courses are below. The full list of approved courses can be found on the Sexuality Studies website at www.marshall.edu/sexualitystu (http://www.marshall.edu/sexualitystu/). Note that all courses that follow, except the Introduction to Sexuality Studies, are approved for certain instructors only.

Code	Title	Credit Hours
PSC/HST/ANT/ ENG 280	Special Topics (Introduction to Sexuality Studies) (Rotating faculty)	1-4
CL 471	Ancient Sexuality (Dr. Del Chrol)	3
ENG 344	Introduction to Film Studies (Special Section: Sexuality in Cinema)(Dr. Walter Squire)(Make sure you sign up for the section taught by Dr. Squire)	3
ENG 434	20th C American Poetry (Sexuality and the Beats) (Dr. Alan Gravano)	3
ENG 455	Advanced Critical Theory (Queer Theory)(Dr. Alan Gravano)	3
HST 407	Sex and Sexuality in the US (Dr. Greta Rensenbrink)	3
HST 408	History of LGBT Peoples (Dr. Greta Rensenbrink)	3
HST 480/580	Special Topics (Writing and Re-Writing the Norse Saga)(Dr. Laura Michele Diener)	1-4
PHL 330	Philosophy of Sex (Dr. John Vielkind)	3

PSC 481/581	Special Topics (The Politics of Gender and Sexuality)(Dr. Shawn Schulenberg)	1-4
PSY 465	Love Intimacy and Attachment (Dr. Keelon Hinton)	3

Contact: Dr. Shawn Schulenberg by phone at 304-696-2767 or by e-mail at schulenberg@marshall.edu.

Women's and Gender Studies, Minor

Dr. Laura Michele Diener
Old Main 357/304-696-3643
www.marshall.edu/womenstu (http://www.marshall.edu/womenstu/)

Marshall University offers a minor in Women's and Gender Studies. It consists of 12 credit hours in courses designated as Women's Studies Courses, including regularly offered courses as well as other popular special topic courses.

The program has the following major objectives:

- To understand the unique contributions of women of all races, sexual orientations, and classes in a global context.
- To complement the existing curriculum where systematic attention to women's experiences and contributions is needed.
- To encourage students to understand the subjective, gender and culture-specific nature of their values, beliefs and customs, and those of others.
- To understand the historical and contemporary social mechanisms that promote or limit women's development as full participants in society.
- To use gender- and culture-inclusive language in written and oral communication, and understand language as a means of liberation or discrimination.
- To promote the equitable treatment of all members of society.

Women's Studies Courses

The following courses will always count toward a Women's and Gender Studies minor. Please check the program website for frequency taught and faculty information. The website will also list Special Topics courses.

Code	Title	Credit Hours
ART 404	Iconography of Mary	3
CJ 406	Race, Ethnicity, Class & Crime	3
CJ 440	CJ Response to Dom Violence	3
CL 210	Love/War Ancient World (CT)	3
CL 231	Women in Greek & Roman Lit	3
CL 460	Ancient Goddess Religions	3
CL 471	Ancient Sexuality	3
HST 250	Women in US History	3
HST 407	Sex and Sexuality in the US	3
HST 443	20th Century US Womens Hst	3
HST 451	History of Women in Sports	3
JMC 455	Race Gender & Mass Media	3
PHL 340	Sexual Orient & Gender	3
PSC 419	Women and Political Thought	3
PSY 330	Human Sexual Behavior	3
PSY 430	Psychology of Women	3
SOC 455	Sociology of Sex and Gender	3
SPN 408	Latin American Women	3
WS 101	Intro to Women's Studies	3

The following courses count toward a Women's Studies minor only when taught by approved faculty. Please check the program website or e-mail the director for a list of approved faculty.

Code	Title	Credit Hours
ENG 240	African American Literatures	3
ENG 242	Women Writers	3
ENG 344	Introduction to Film Studies	3
ENG 414	19th C British Novel	3

International Affairs

Contacts: Dr. Jess Morrissette, Program Director
Website: http://www.marshall.edu/polsci/academic-programs/international-affairs/

Overview text

Programs

- International Affairs, B.A. (p. 403)
- International Affairs, Minor (p. 405)

Courses

- General Education Course

Economics

ECN 200 Survey of Economics **3 Credit hours**
Major emphasis given to microeconomic topics such as supply and demand, market structure, and international trade. Macroeconomic concepts and aggregate supply-aggregate demand model are examined. (Not open to students in the College of Business or to students who have completed ECN 250) Major emphasis given to microeconomic topics such as supply and demand, market structure, and international trade. Macroeconomic concepts and aggregate supply-aggregate demand model are examined. (Not open to students in the College of Business or to students who have completed ECN 250)
Grade Mode: Normal Grading Mode

ECN 250 Principles Microeconomics **3 Credit hours**
Principles of scarcity, opportunity cost, and supply and demand are developed along with price and wage determination in the marketplace. International trade and policy problems are also examined. Principles of scarcity, opportunity cost, and supply and demand are developed along with price and wage determination in the marketplace. International trade and policy problems are also examined.
Grade Mode: Normal Grading Mode

ECN 253 Principles Macroeconomics **3 Credit hours**
Introduction to the workings of the national economy. Focuses on the forces driving economic growth, inflation, unemployment, and the country's international economic relations. Introduction to the workings of the national economy. Focuses on the forces driving economic growth, inflation, unemployment, and the country's international economic relations.
Pre-req: ECN 250 with a minimum grade of D or ECN 200 with a minimum grade of D.
Grade Mode: Normal Grading Mode

ECN 280 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

ECN 301 Quantitative Methods ECN/FIN **3 Credit hours**
Application of mathematical and statistical methods in Economics and Finance.
Pre-req: ECN 250 with a minimum grade of D and ECN 253 with a minimum grade of D.
Grade Mode: Normal Grading Mode

ECN 302 Health Economics **3 Credit hours**
A study of the health care market and health policy using the economic concepts of demand-supply, individual choice, uncertainty, asymmetric information and moral hazard.
Pre-req: ECN 250 with a minimum grade of D and ECN 253 with a minimum grade of D.
Grade Mode: Normal Grading Mode

ECN 310 Money and Banking **3 Credit hours**
Money, credit and credit institutions in the United States; monetary, fiscal, and banking functions of the Federal Reserve System.
Pre-req: ECN 250 with a minimum grade of D and ECN 253 with a minimum grade of D.
Attributes: American Institutions
Grade Mode: Normal Grading Mode

ECN 326 Int Macroeconomic Analys **3 Credit hours**
Advanced study of the national economy as a whole. The main topics focused on are: economic growth, unemployment, inflation, international monetary and financial relations, and macroeconomic policy activity. Advanced study of the national economy as a whole. The main topics focused on are: economic growth, unemployment, inflation, international monetary and financial relations, and macroeconomic policy activity.
Pre-req: ECN 250 with a minimum grade of D and ECN 253 with a minimum grade of D.
Attributes: American Institutions
Grade Mode: Normal Grading Mode

ECN 328 Int Microeconomic Analys **3 Credit hours**
Microeconomics theories of the production and pricing of goods and services, payments to the factors of production.
Pre-req: ECN 250 with a minimum grade of D and ECN 253 with a minimum grade of D.
Grade Mode: Normal Grading Mode

ECN 405 Environmental Economics **3 Credit hours**
An application of basic economic theory to a consideration of a wide range of environmental problems including pollution, natural resource exhaustion, population and economic growth.
Pre-req: ECN 250 with a minimum grade of D.
Grade Mode: Normal Grading Mode

ECN 408 Comparative Econ Systems **3 Credit hours**
Marxism, capitalism, communism, facism ad socialism considered as theories, movements and actual political economies.
Pre-req: ECN 250 with a minimum grade of D and ECN 253 with a minimum grade of D.
Attributes: International
Grade Mode: Normal Grading Mode

ECN 415 Regional Economics **3 Credit hours**
A study of location theory and regional development within a framework of economic theory. A study of location theory and regional development within a framework of economic theory.
Pre-req: ECN 250 with a minimum grade of D and ECN 253 with a minimum grade of D.
Attributes: American Institutions, Social Sciences
Grade Mode: Normal Grading Mode

ECN 420 International Trade **3 Credit hours**
An introduction to the basic microeconomic models explaining the reasons for and the effects of trade among nations, trade restrictions and regional trading arrangements. An introduction to the basic microeconomic models explaining the reasons for and the effects of trade among nations, trade restrictions and regional trading arrangements.
Pre-req: ECN 250 with a minimum grade of D and ECN 253 with a minimum grade of D.
Attributes: International
Grade Mode: Normal Grading Mode

ECN 421 Global Macroeconomic Analysis **3 Credit hours**
Current topics in international monetary relations, and how countries use macroeconomic policy to influence their performance in the global economy, and how global events influence country performance. Emphasis upon applications.
Pre-req: ECN 253 with a minimum grade of D.
Attributes: International
Grade Mode: Normal Grading Mode

ECN 423 Intro to Econometrics **3 Credit hours**
Combines economic theory with real data to obtain quantitative results for purposes of explanation and prediction. The development of useful economic models applicable to present day world problems.
Pre-req: (MGT 218 with a minimum grade of D or MGT 318 with a minimum grade of D or MTH 225 with a minimum grade of D or STA 225 with a minimum grade of D or IST 130 with a minimum grade of D or EDF 417 with a minimum grade of D or PSY 223 with a minimum grade of D or SOC 345 with a minimum grade of D) and ECN 253 with a minimum grade of D.
Grade Mode: Normal Grading Mode

ECN 456 Labor Economics **3 Credit hours**
Theoretical and empirical analysis of labor markets, wage determination, hours of work, unemployment and inflation, unions and collective bargaining and related subjects in their social and legal contexts.
Pre-req: ECN 250 with a minimum grade of D.
Attributes: American Institutions, Social Sciences
Grade Mode: Normal Grading Mode

ECN 460 Economic of Dev Countries **3 Credit hours**
Introduction to developing nations in the world economy. Focus on their economic characteristics, current economic problems, and policy issues. Interactions between the world economy and country performance.
Pre-req: ECN 250 with a minimum grade of D and ECN 253 with a minimum grade of D.
Attributes: International
Grade Mode: Normal Grading Mode

ECN 466 Economics Workshop **3 Credit hours**
Capstone experience. Emphasis on learning economics through applied research, writing, and oral presentations of student work. Capstone experience. Emphasis on learning economics through applied research, writing, and oral presentations of student work.
Pre-req: ECN 326 with a minimum grade of D and ECN 328 with a minimum grade of D and ECN 423 with a minimum grade of D.
Attributes: Capstone Course
Grade Mode: Normal Grading Mode

ECN 467 Economics Workshop II **2 Credit hours**
Capstone Experience. Emphasis on learning economics through writing exercises. Opportunity for collaborative research with CBER staff. Development of skills necessary for success in the job market. (PR: ECN 466) tion of Senior Thesis I) Capstone Experience. Emphasis on learning economics through writing exercises. Opportunity for collaborative research with CBER staff. Development of skills necessary for success in the job market. (PR: ECN 466) tion of Senior Thesis I)
Attributes: Capstone Course
Grade Mode: Normal Grading Mode

ECN 480 Special Topics **1-4 Credit hours**
Members of the department may teach, when necessary, any economics subject not listed among the current course offerings. Members of the department may teach, when necessary, any economics subject not listed among the current course offer- ings.
Grade Mode: Normal Grading Mode

ECN 485 Independent Study **1-4 Credit hours**
A research project conducted by a qualified student under guidance of a member of the department; involves gathering of data, interpretation, and presentation of findings in a written report. A research project conducted by a qualified student under guidance of a member of the department; involves gathering of data, interpretation, and presentation of findings in a written report.
Grade Mode: Normal Grading Mode

ECN 490 Internship **3-12 Credit hours**
A supervised internship in which the student works for a business firm/agency to gain practical experience in the student's major. The program of work and study will be defined in advanced and the students performance will be evaluated.
Grade Mode: Credit/No Credit Grade Only

Geography

GEO 100 Intro to Human Geography (CT) **3 Credit hours**
This critical thinking course provides a systematic examination of contemporary concepts and processes of human geography in global perspective, including economics, geopolitics, culture, nationalism, urbanization, governance, agriculture, population, and migration.
Attributes: Critical Thinking, International, Core II Social Sciences
Grade Mode: Normal Grading Mode

GEO 101 Physical Geography (CT) **4 Credit hours**
Systematic survey of earth-sun relationships, land-surface form, climate, soils, water, natural vegetation, and other natural content as a background for human geography. Systematic survey of earth-sun relationships, land-surface form, climate, soils, water, natural vegetation, and other natural content as a background for human geography.
Attributes: Critical Thinking, Natural Sciences
Grade Mode: Normal Grading Mode

GEO 110 Basic GIS **1 Credit hour**
Introduction to GIS concepts including GIS components, spatial and tabular data, database elements, data formats, and map design; hands-on experience with a GIS.
Attributes: Digital Humanities
Grade Mode: Normal Grading Mode

GEO 111 Air Photos & Satellite Imagery **1 Credit hour**
Introduction to photogrammetry and remote sensing thourgh the hands-on investigation of aerial photographs and satellite imagery using the latest technology.
Attributes: Digital Humanities
Grade Mode: Normal Grading Mode

GEO 112 Smartphone GPS **1 Credit hour**
Principles of Global Navigation Satellite Systems (GNSS); using your smartphone for Global Positioning Systems (GPS)/GNSS orientation, and data collection.
Attributes: Digital Humanities
Grade Mode: Normal Grading Mode

GEO 113 Web GIS **1 Credit hour**
Students learn to build web maps, share GIS data on the internet, and create web GIS applications.
Attributes: Digital Humanities
Grade Mode: Normal Grading Mode

GEO 203 Economic Geography (CT) **3 Credit hours**
A systematic examination of world economic geography with a focus on population, agriculture, transportation, land use, urbanization, industry, energy, and the environment. A systematic examination of world economic geography with a focus on population, agriculture, transportation, land use, urbanization, industry, energy, and the environment.
Attributes: Critical Thinking, International, Core II Social Sciences
Grade Mode: Normal Grading Mode

GEO 206 Geography West Virginia **3 Credit hours**
A survey of the geography of West Virginia including landforms, climate, settlement patterns, population, economics, resources, politics, and environmental changes.
Attributes: American Institutions, Core II Social Sciences
Grade Mode: Normal Grading Mode

GEO 207 Biblical Geography **3 Credit hours**
Students explore the physical and human geography of ancient Palestine and assess how geography informs our understanding of people, events, and places described by Jewish and Christian scriptures.
Attributes: Core II Humanities
Grade Mode: Normal Grading Mode

GEO 222 Global Environment Issues (CT) **3 Credit hours**
Environmental issues have great emotional, political, and economic significance. The dynamics of global environmental problems, their complex interactions, and effects on potential stakeholders will be examined at the international scale.
Attributes: Critical Thinking, International, Core II Social Sciences
Grade Mode: Normal Grading Mode

GEO 230 Intro to Meteorology (CT) **4 Credit hours**
Introduction to the composition of the atmosphere and weather phenomena, including thunderstorms, tornadoes, and hurricanes. Introduction to the composition of the atmosphere and weather phenomena, including thunderstorms, tornadoes, and hurricanes.
Attributes: Critical Thinking, Core II Natural Sciences
Grade Mode: Normal Grading Mode

GEO 280 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

GEO 281 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

GEO 282 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

GEO 283 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

GEO 300 Methods in Geography **3 Credit hours**
Provides an introduction to research methods in geography. Topics addressed include: data sources; sampling; data collection, storage, and management; descriptive measures and data visualization techniques; qualitative and quantitative analysis.
Pre-req: STA 225 with a minimum grade of D or STA 150 with a minimum grade of D or STA 150B with a minimum grade of D or MGT 218 with a minimum grade of D or PSY 223 with a minimum grade of D or SOC 345 with a minimum grade of D or GEO 440 with a minimum grade of D.
Grade Mode: Normal Grading Mode

GEO 305 Geog of USA & Canada **3 Credit hours**
Survey of physical, historical, population, economic, political, cultural, and regional geographies of Canada and the United States, including an analysis of the multi-cultural nature of the societies.
Attributes: American Institutions, Multicultural
Grade Mode: Normal Grading Mode

GEO 317 World Regional Geography **3 Credit hours**
World regions examined using a synthesis of physical and human geographical themes including environment, culture, landscape, climate, landforms, globalization, population patterns, urbanization, economies, and political geography.
Attributes: International
Grade Mode: Normal Grading Mode

GEO 350 Severe Storms and Natl Hzrds **4 Credit hours**
Basics of earth and atmospheric hazards including flooding, earthquakes, tsunamis, hurricanes, tornadoes, and volcanic eruptions, and how to mitigate the impacts. Basics of earth and atmospheric hazards including flooding, earthquakes, tsunamis, hurricanes, tornadoes, and volcanic eruptions, and how to mitigate the impacts.
Grade Mode: Normal Grading Mode

GEO 355 Aviation Weather **3 Credit hours**
A study of atmospheric conditions on aeronautical operations. Topics include atmospheric properties, aviation hazards including thunderstorms, wind shear, turbulence, and icing, and weather flight resources.
Pre-req: GEO 230 with a minimum grade of D.
Grade Mode: Normal Grading Mode

GEO 402 Geography of Appalachia **3 Credit hours**
A study of the geography of Appalachia, including landforms, climate, settlement patterns, population, economics, resources, politics, and environmental changes.
Attributes: American Institutions
Grade Mode: Normal Grading Mode

GEO 404 Geography of Europe **3 Credit hours**
An examination of the geography of Europe focusing on contemporary issues, including climate, culture, economics, environmental change, everyday life, international relations landforms, language, politics, population, religion, and urbanization. An examination of the geography of Europe focusing on contemporary issues, including climate, culture, economics, environmental change, everyday life, international relations landforms, language, politics, population, religion, and urbanization.
Attributes: International
Grade Mode: Normal Grading Mode

GEO 405 Political Geography **3 Credit hours**
A systematic and regional survey of world political problems and international relations stressing current geopolitical conflicts. An examination of contemporary patterns, processes, and problems of political geography in global perspective, including globalization, colonialism, imperialism, geopolitics, nationalism, diplomacy, international borders, governance, political representation, and future projections
Attributes: International
Grade Mode: Normal Grading Mode

GEO 406 Population Geography **3 Credit hours**
An examination of contemporary patterns, processes, and problems of population geography in global perspective, including fertility, mortality, demographic change, migration, malnutrition, urbanization, natural resource sustainability, and future projections. An examination of contemporary patterns, processes, and problems of population geography in global perspective, including fertility, mortality, demographic change, migration, malnutrition, urbanization, natural resource sustainability, and future projections.
Attributes: International
Grade Mode: Normal Grading Mode

GEO 408 Geog of South & Middle America **3 Credit hours**
A study of settlement, transportation, manufacturing, agriculture, geopolitics, and natural resources of South and Middle American countries. Regional study of relation of man's activities to natural environment.
Attributes: International
Grade Mode: Normal Grading Mode

GEO 410 Urban Geography **3 Credit hours**
Study of the evolution, morphology and land use, functions, and problems of urban areas, with emphasis on governance, planning, and the social and environmental impacts of urbanization.
Attributes: American Institutions
Grade Mode: Normal Grading Mode

GEO 411 Medical Geography **3 Credit hours**
An examination of contemporary issues and problems in health and medical geography, including the spatial aspects of global health, health care policy, and disease origins, diffusion, and ecology.
Grade Mode: Normal Grading Mode

GEO 418 Geography For Educators **3 Credit hours**
A study of geographic concepts, methods, and technologies essential for effective teaching of geographic content for K-12 social studies teachers and college educators.
Grade Mode: Normal Grading Mode

GEO 422 Environmental Geography **3 Credit hours**
Attributes: International
Grade Mode: Normal Grading Mode

GEO 423 Cartography & GIS **3 Credit hours**
This course is an introduction to cartography and is the cornerstone of Geographic Information Science. In this class you will learn basic map design, map interpretation and appreciation. We will explore the nature of spatial data, and learn what maps can and cannot represent. We will study maps as a data source for Geographic Information Systems, and as a graphic tool for scientific visualizations.
Grade Mode: Normal Grading Mode

GEO 424 Transportation Geography **3 Credit hours**
A geographic analysis of transportation and its spatial organization. Concepts, models, and analytical methods related to traffic demand, network configuration, and allocation of transport facilities are covered.
Grade Mode: Normal Grading Mode

GEO 425 Climatology **4 Credit hours**
A study of elements of weather and climate, methods of climatic classification, and the distribution and characteristics of world climate regions. A study of elements of weather and climate, methods of climatic classification, and the distribution and characteristics of world climate regions.
Grade Mode: Normal Grading Mode

GEO 426 Principles of GIS **4 Credit hours**
Introduction to Geographic Information Systems (GIS) principles, techniques, and applications for the social and natural sciences with emphasis on foundational geographic principles in a lecture/lab format.
Attributes: Digital Humanities
Grade Mode: Normal Grading Mode

GEO 427 Principles of GIS II **4 Credit hours**
Students apply GIS principles and techniques to geoprocess and manipulate geographic data, including topics such as geodatabase management, python scripting, model building, web mapping and data services, and spatial analysis.
Pre-req: GEO 423 with a minimum grade of D or GEO 426 with a minimum grade of D or GEO 429 with a minimum grade of D or GEO 430 with a minimum grade of D or NRRM 423 with a minimum grade of D or NRRM 433 with a minimum grade of D.
Grade Mode: Normal Grading Mode

GEO 429 Location Analysis and GIS **4 Credit hours**
Concepts, models, and methods of geographic location analysis of natural resource extraction, manufacturing, services, retail and market area analytics, and logistics using GIS.
Pre-req: GEO 423 with a minimum grade of D or GEO 426 with a minimum grade of D or GEO 427 with a minimum grade of D or GEO 430 with a minimum grade of D or NRRM 423 with a minimum grade of D or NRRM 433 with a minimum grade of D.
Grade Mode: Normal Grading Mode

GEO 430 Environmental Raster GIS **4 Credit hours**
Environmental Applications of GIS raster analysis, including local, neighborhood, and zonal operations, terrain analysis, distance modeling, and surface interpolation, data collection and input, and advanced spatial analysis using GIS.
Pre-req: GEO 426 or GEO 429 or IST 423.
Grade Mode: Normal Grading Mode

GEO 431 Remote Sensing & Photogram **4 Credit hours**
Scientific study of the earth using images and data captured using satellite- or aircraft-borne sensors, with emphasis on issues of acquisition, photogrammetric interpretation, spatial analysis and application.
Pre-req: GEO 426 with a minimum grade of D or GEO 429 with a minimum grade of D or GEO 430 with a minimum grade of D or IST 423 with a minimum grade of D.
Grade Mode: Normal Grading Mode

GEO 432 Enterprise GIS **3 Credit hours**
Principles and techniques for planning, implementing, and managing Geographic Information Systems technologies in a firm or agency.
Pre-req: GEO 426 or GEO 429 or GEO 430 or GEO 431 or IST 423.
Grade Mode: Normal Grading Mode

GEO 433 GPS & Mobile Geospatial Tech **3 Credit hours**
An analysis of the design and deployment of Global Navigation Satellite Systems such as GPS (Global Positioning System) and their application to mobile map services.
Pre-req: GEO 426 or GEO 429 or GEO 430 or GEO 431 or IST 423.
Grade Mode: Normal Grading Mode

GEO 434 Floods Hazards and GIS **3 Credit hours**
Application of principles of flood hazards preparation, disaster management, and mitigation using Geographic Information Systems (GIS).
Grade Mode: Normal Grading Mode

GEO 440 Spatial Statistics and GIS **4 Credit hours**
Statistical methods applied to problem solving in geography and using GIS for display and analysis. Primary focus on descriptive and inferential spatial statistics, mapping, and spatial analysis of data.
Grade Mode: Normal Grading Mode

GEO 450 Extreme Weather **4 Credit hours**
Basics of extreme weather phenomena including hurricanes, tornadoes, floods, droughts, blizzards, and how to mitigate the impacts.
Grade Mode: Normal Grading Mode

GEO 454 Drones: Remote Sensing & GIS **3 Credit hours**
Learn FAA rules and safety procedures; prepare for Remote Pilot licensing exam; operate drones to collect remote sensing data; process imagery for analysis; integrate sUAS imagery with existing GIS data.
Grade Mode: Normal Grading Mode

GEO 460 Weather Analysis **4 Credit hours**
Introduction to reading weather maps and meteorological analysis techniques including satellite and radar image interpretation and numerical weather prediction.
Grade Mode: Normal Grading Mode

GEO 480 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

GEO 481 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

GEO 482 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

GEO 483 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

GEO 485 Independent Study **1-4 Credit hours**
Attributes: No Textbook Required
Grade Mode: Normal Grading Mode

GEO 486 Independent Study **1-4 Credit hours**
Attributes: No Textbook Required
Grade Mode: Normal Grading Mode

GEO 487 Independent Study **1-4 Credit hours**
Grade Mode: Normal Grading Mode

GEO 488 Independent Study **1-4 Credit hours**
Grade Mode: Normal Grading Mode

GEO 490 Internship **1-6 Credit hours**
Cooperative learning experience with regional employer/government agency.
Attributes: No Textbook Required
Grade Mode: Credit/No Credit Grade Only

GEO 498 Senior Capstone **2 Credit hours**
This senior capstone course combines research methods, data collection, and analysis to produce original research on questions and problems in geography. Par I: Pilot Project.
Pre-req: GEO 300 with a minimum grade of D and (GEO 423 with a minimum grade of D or GEO 426 with a minimum grade of D).
Attributes: Capstone Course
Grade Mode: Normal Grading Mode

GEO 499 Senior Capstone II **1-3 Credit hours**
This senior capstone course combines research methods, data collection, and analysis to produce original research on questions and problems in geography. Part II.
Pre-req: GEO 426 with a minimum grade of D and (MTH 225 with a minimum grade of D or GEO 440 with a minimum grade of D or MGT 218 with a minimum grade of D or PSY 223 with a minimum grade of D or SOC 345 with a minimum grade of D or ANT 301 with a minimum grade of D or EDF 417 with a minimum grade of D).
Attributes: American Institutions, Capstone Course
Grade Mode: Normal Grading Mode

History

HST 101 Great Civs to 1300 (CT) **3 Credit hours**
Comparative study of the origin and course of major civilizations focusing on the Middle East, India, China, and the West. This class emphasizes critical thinking skills. Comparative study of the origin and course of major civilizations focusing on the Middle East, India, China, and the West. This class emphasizes critical thinking skills.
Attributes: Critical Thinking, Multicultural, Core II Social Sciences
Grade Mode: Normal Grading Mode

HST 101H Great Civs to 1300 (CT) **3 Credit hours**
Comparative study of the origin and course of major civilizations focusing on the Middle East, India, China, and the West. This honors section emphasizes critical thinking skills.
Pre-req: Admitted Honors College with a score of 1.
Attributes: Critical Thinking, Honors, Multicultural, Core II Social Sciences
Grade Mode: Normal Grading Mode

HST 102 World & West 1300-1850 (CT) **3 Credit hours**
An interdisciplinary analysis of the foundations of Western development. This class emphasizes critical thinking skills.
Attributes: Critical Thinking, Multicultural, Core II Social Sciences
Grade Mode: Normal Grading Mode

HST 102H World & West 1300-1850 (CT) **3 Credit hours**
An interdisciplinary analysis of the foundations of Western development. This class emphasizes critical thinking skills.
Pre-req: Admitted Honors College with a score of 1.
Attributes: Critical Thinking, Honors, Multicultural, Core II Social Sciences
Grade Mode: Normal Grading Mode

HST 103 The World Since 1850 (CT) **3 Credit hours**
Major world developments and trends from the middle of the 19th century to the present and their implications for the future. This class emphasizes critical thinking skills. Major world developments and trends from the middle of the 19th century to the present and their implications for the future. This class emphasizes critical thinking skills.
Attributes: Critical Thinking, International, Core II Social Sciences
Grade Mode: Normal Grading Mode

HST 103H World Since 1850 Honors (CT) **3 Credit hours**
Survey for superior students of world developments and trends from the 19th century to the present and their implications for the future. Survey for superior students of world developments and trends from the 19th century to the present and their implications for the future.
Pre-req: ACT Composite with a score of 26 or SAT Verbal Before March 16 with a score of 600.
Attributes: Critical Thinking, Honors, International, Core II Social Sciences
Grade Mode: Normal Grading Mode

HST 200 History Methods Workshop **3 Credit hours**
This course is an introduction to the most fundamental methods of the discipline. Students will learn to use library resources, practice document interpretation skills, and identify and evaluate historical arguments. This course is an introduction to the most fundamental methods of the discipline. Students will learn to use library resources, practice document interpretation skills, and identify and evaluate historical arguments.
Attributes: Core II Social Sciences
Grade Mode: Normal Grading Mode

HST 208 The Developing World (CT) **3 Credit hours**
A survey of selected Third World countries focusing on imperialism, colonialism and developmental interests. This class emphasizes critical thinking skills. A survey of selected Third World countries focusing on imperialism, colonialism and developmental interests. This class emphasizes critical thinking skills.
Attributes: Critical Thinking, International, Core II Social Sciences, World History
Grade Mode: Normal Grading Mode

HST 218 Ancient Egypt **3 Credit hours**
A survey of the history of Egypt from the pre-dynastic kings through the reign of Cleopatra with emphasis on religious, cultural, social, political and economic developments.
Attributes: World History
Grade Mode: Normal Grading Mode

HST 219 Ancient History **3 Credit hours**
A survey of the ancient Near East, Greece, and Rome with emphasis on Greek and Roman civilization from Mycenaean times through the Roman Empire of the 5th century. Open to all undergraduates. A survey of the ancient Near East, Greece, and Rome with emphasis on Greek and Roman civilization from Mycenaean times through the Roman Empire of the 5th century. Open to all undergraduates.
Attributes: European History, Multicultural, Core II Social Sciences
Grade Mode: Normal Grading Mode

HST 220 European Hist Medieval **3 Credit hours**
A survey of the history of Europe from the later Roman Empire to the end of the Middle Ages with emphasis on religious, cultural, social, political and economic developments. Open to all undergraduates. A survey of the history of Europe from the later Roman Empire to the end of the Middle Ages with emphasis on religious, cultural, social, political and economic developments. Open to all undergraduates.
Attributes: European History, Core II Social Sciences
Grade Mode: Normal Grading Mode

HST 223 Rise & Fall Nazi Germany **3 Credit hours**
A study of the origins, course, and collapse of the Third Reich. Some attention will be given to pre-Nazi period. A study of the origins, course, and collapse of the Third Reich. Some attention will be given to pre-Nazi period.
Attributes: European History, International, Core II Social Sciences
Grade Mode: Normal Grading Mode

HST 230 American History to 1877 (CT) **3 Credit hours**
A general survey from the discovery in 1492 through the period of Reconstruction. This class emphasizes critical thinking skills. A general survey from the discovery in 1492 through the period of Reconstruction. This class emphasizes critical thinking skills.
Attributes: American Institutions, Critical Thinking, Multicultural, Core II Social Sciences, United States History
Grade Mode: Normal Grading Mode

HST 230H Amer Hist to 1877-Honors **3 Credit hours**
A survey of American History to 1877 for the superior student. A survey of American History to 1877 for the superior student.
Pre-req: ACT Composite with a score of 26 or SAT Verbal Before March 16 with a score of 600.
Attributes: American Institutions, Core II Social Sciences, United States History
Grade Mode: Normal Grading Mode

HST 231 American Hist From 1877 (CT) **3 Credit hours**
A general survey since Reconstruction. This class emphasizes critical thinking skills. A general survey since Reconstruction. This class emphasizes critical thinking skills.
Attributes: American Institutions, Critical Thinking, Multicultural, Core II Social Sciences, United States History
Grade Mode: Normal Grading Mode

HST 231H US Hist Since 1877-Honors **3 Credit hours**
Pre-req: ACT Composite with a score of 26 or SAT Verbal Before March 16 with a score of 600.
Attributes: American Institutions, Honors, Social Sciences, Core II Social Sciences, United States History
Grade Mode: Normal Grading Mode

HST 250 Women in US History **3 Credit hours**
A study of the public and private contributions of women in the shaping of the United States from the Colonial period to the present. A study of the public and private contributions of women in the shaping of the United States from the Colonial period to the present.
Attributes: Core II Social Sciences, United States History
Grade Mode: Normal Grading Mode

HST 260 Rise of Islam 570-1750 **3 Credit hours**
A study of the Middle Eastern region from pre-Islamic Arabia to the pinnacle of Ottoman imperial control. Emphasis is placed on cultural, social, and political developments. A study of the Middle Eastern region from pre-Islamic Arabia to the pinnacle of Ottoman imperial control. Emphasis is placed on cultural, social, and political developments.
Attributes: Core II Social Sciences, World History
Grade Mode: Normal Grading Mode

HST 265 Modern East Asia **3 Credit hours**
A survey of the history of East Asia from 17th century to present with a focus on China and Japan. A survey of the history of East Asia from 17th century to present with a focus on China and Japan.
Attributes: Core II Social Sciences, World History
Grade Mode: Normal Grading Mode

HST 280 Special Topics **1-4 Credit hours**
Selected topics not covered in regular course offerings. Selected topics not covered in regular course offerings.
Grade Mode: Normal Grading Mode

HST 281 Special Topics **1-4 Credit hours**
Selected topics not covered in regular course offerings. Selected topics not covered in regular course offerings.
Grade Mode: Normal Grading Mode

HST 282 Special Topics **1-4 Credit hours**
Selected topics not covered in regular course offerings. Selected topics not covered in regular course offerings.
Grade Mode: Normal Grading Mode

HST 283 Special Topics **1-4 Credit hours**
Selected topics not covered in regular course offerings. Selected topics not covered in regular course offerings.
Grade Mode: Normal Grading Mode

HST 301 Lat Am Discovery-Independ **3 Credit hours**
Emphasis is on conditions in Spain which influenced the development of Latin America and eventually led to the independence movement. Emphasis is on conditions in Spain which influenced the development of Latin America and eventually led to the independence movement.
Attributes: International, World History
Grade Mode: Normal Grading Mode

HST 302 Lat Am Independence-Pres **3 Credit hours**
Emphasis is on the political, economic and social institutions of Argentina, Brazil, Chile and Mexico. Emphasis is on the political, economic and social insti- tutions of Argentina, Brazil, Chile and Mexico.
Attributes: International, World History
Grade Mode: Normal Grading Mode

HST 303 American Military History **3 Credit hours**
Attributes: United States History
Grade Mode: Normal Grading Mode

HST 304 Spanish History Since 1475 **3 Credit hours**
A survey of Spain's historical development emphasizing her rise and decline as a world power, the impact of persistent internal conflict, the Franco dictatorship and the transition to democracy.
Attributes: European History, International
Grade Mode: Normal Grading Mode

HST 305 Drug Wars **3 Credit hours**
This course examines the history of the war on drugs throughout U.S. and Latin American history with an emphasis on the past century.
Attributes: World History
Grade Mode: Normal Grading Mode

HST 306 The Holocaust **3 Credit hours**
An exploration of the why and how of the Holocaust with an emphasis on Nazi Jewish policy from 1933 to 1942. An exploration of the why and how of the Holocaust with an emphasis on Nazi Jewish policy from 1933 to 1942.
Attributes: European History
Grade Mode: Normal Grading Mode

HST 307 The Global Cold War **3 Credit hours**
An international survey of World War II and the Cold War. Topics include military, political, diplomatic, social and cultural history from a global perspective.
Attributes: International, World History
Grade Mode: Normal Grading Mode

HST 308 Baseball in the Americas **3 Credit hours**
It seeks to understand the importance of baseball from a social, cultural and political standpoint. It also explores the use of baseball as a diplomatic tool.
Attributes: United States History
Grade Mode: Normal Grading Mode

HST 309 History of the Cherokee **3 Credit hours**
The course explores the history and culture of the Cherokee people from pre-contact through the 21st century.
Grade Mode: Normal Grading Mode

HST 310 History of Global Pandemics **3 Credit hours**
A study of pandemics in world history, from the Plague of Athens to COVID-19.
Attributes: American Institutions, Social Sciences
Grade Mode: Normal Grading Mode

HST 311 World War I **3 Credit hours**
This course explores the First World War. It examines the roots of the conflict, the outbreak, the course of the war, and its chaotic aftermath.
Attributes: World History
Grade Mode: Normal Grading Mode

HST 312 African-American History **3 Credit hours**
A survey of African-American History from African and West Indian origins to the present. A survey of African-American History from African and West Indian origins to the present.
Attributes: American Institutions, Multicultural, United States History
Grade Mode: Normal Grading Mode

HST 314 LGBTQ+ History of the US **3 Credit hours**
A survey of LGBTQIA+ history in the United States from the colonial period to the present. Introduction to the civilization of the area; the establishment of colonial control; liquidation of colonial rule and the readjustment required.
Attributes: United States History
Grade Mode: Normal Grading Mode

HST 323 Religion in America **3 Credit hours**
The rise and development of religion and of religious thinking in America. (Same as Religious Studies 323) The rise and development of religion and of religious thinking in America. (Same as Religious Studies 323)
Attributes: American Institutions, Social Sciences, United States History
Grade Mode: Normal Grading Mode

HST 330 Football and American Culture **3 Credit hours**
This class examines the role of football in American culture, politics, the economy and particularly its role in the elevation of college sports. A general treatment from the discovery in 1492 through the period of Reconstruction.
Attributes: United States History
Grade Mode: Normal Grading Mode

HST 333 American Colonial History **3 Credit hours**
A study of the historical development of the English colonies in America. A study of the historical development of the English colonies in America.
Attributes: American Institutions, United States History
Grade Mode: Normal Grading Mode

HST 342 American Legal History **3 Credit hours**
Historical development of American law in areas ranging from slavery and racial discrimination to civil liberties and crime and punishment. Historical development of American law in areas ranging from slavery and racial discrimination to civil liberties and crime and punishment.
Attributes: American Institutions, United States History
Grade Mode: Normal Grading Mode

HST 343 The US in the 1970s **3 Credit hours**
The economic, political, social and cultural history of the United States as it shifted from the modern 1960s to the post-modern world of the late 20th century. The economic, political, social and cultural history of the United States as it shifted from the modern 1960s to the post-modern world of the late 20th century.
Attributes: American Institutions, United States History
Grade Mode: Normal Grading Mode

HST 344 The United States in the 1980s **3 Credit hours**
Focusing on the United States in the 1980s global context, this course examines the social, cultural, political, and economic history of the late 20th century.
Attributes: United States History
Grade Mode: Normal Grading Mode

HST 347 Southern Women's History **3 Credit hours**
This course explores the lives and experiences of Southern women in the US from the colonial era to the present. This course explores the lives and experiences of Southern women in the US from the colonial era to the present.
Attributes: United States History
Grade Mode: Normal Grading Mode

HST 360 Sports and Civil Rights **3 Credit hours**
An examination of the way that sports history reflects important themes in US history such as equality, race, ethnicity, and gender.
Attributes: Multicultural
Grade Mode: Normal Grading Mode

HST 361 The Modern Middle East **3 Credit hours**
A survey of the modern Middle East with emphasis on the historical background of current controversial issues confronting the region. A survey of the modern Middle East with emphasis on the historical background of current controversial issues confronting the region.
Attributes: International, World History
Grade Mode: Normal Grading Mode

HST 362 The Crusades **3 Credit hours**
An examination of the origins, historical progression, and impact of the Crusades from both Christian and Islamic perspectives.
Attributes: Multicultural, World History
Grade Mode: Normal Grading Mode

HST 365 The Civil Rights Movement **3 Credit hours**
An exploration of 20th century movements for civil rights in American history examining race, ethnicity, social class, and gender. An exploration of 20th century movements for civil rights in American history examining race, ethnicity, social class, and gender.
Attributes: Multicultural
Grade Mode: Normal Grading Mode

HST 366 Conspiracies in US History **3 Credit hours**
This course focuses on the ways people have constructed and used conspiracy theories to explain events in U.S. political, cultural, social, and scientific arenas.
Attributes: United States History
Grade Mode: Normal Grading Mode

HST 378 Modern Asia **3 Credit hours**
A selective look at Modern Asia, focusing on Japan, China, Korea, Taiwan, Vietnam and Indonesia and American interaction with the Asian nations. No Preq. A selective look at Modern Asia, focusing on Japan, China, Korea, Taiwan, Vietnam and Indonesia and American inter- action with the Asian nations. No Preq.
Attributes: International, World History
Grade Mode: Normal Grading Mode

HST 380 Asia to 1600 **3 Credit hours**
This course will introduce students to the political, cultural, social, and intellectual environment of premodern Asia. Students will also learn to think critically about their own and other societies. This course will introduce students to the political, cultural, social, and intellectual environment of pre- modern Asia. Students will also learn to think critically about their own and other societies.
Attributes: World History
Grade Mode: Normal Grading Mode

HST 390 Food in World History **3 Credit hours**
This course examines the key changes and continuities in human food consumption patterns and practices since the Neolithic period while comparing and contrasting the foodways of major civilizations and cultures.
Attributes: World History
Grade Mode: Normal Grading Mode

HST 392 Food Markets and Modernity **3 Credit hours**
This course examines the social and cultural history of various types of urban food markets in Western Europe and the United States from the late eighteenth century to the present.
Attributes: European History
Grade Mode: Normal Grading Mode

HST 400 Senior Seminar **3 Credit hours**
A capstone course for History majors. Survey of literature and practical experience in methods and sources of history through bibliographical study and research papers. Senior standing or by permission. A capstone course for History majors. Survey of literature and practical experience in methods and sources of history through bibliographical study and research papers. Senior standing or by permission.
Pre-req: HST 101 with a minimum grade of D and HST 102 with a minimum grade of D and HST 103 with a minimum grade of D and HST 200 with a minimum grade of D and HST 230 with a minimum grade of D and HST 231 with a minimum grade of D.
Attributes: Capstone Course
Grade Mode: Normal Grading Mode

HST 401 History of Appalachia **3 Credit hours**
This course will explore the historical and historiographical development of Appalachia and the economic, political, and cultural forces that have shaped the lives and communities of mountaineers.
Grade Mode: Normal Grading Mode

HST 405 Amer Diplomacy 1900-Pres **3 Credit hours**
American foreign relations in the 20th century. The gradual retreat from isolation in the period between World War I and World War II and modern American involvement in international commitments are stressed. American foreign relations in the 20th century. The gradual retreat from isolation in the period between World War I and World War II and modern American involvement in inter- national commitments are stressed.
Attributes: American Institutions, United States History
Grade Mode: Normal Grading Mode

HST 406 Tudor & Stuart England **3 Credit hours**
A history of England under the Tudors and Stuarts, focusing primarily on demographic, social, cultural, and political developments. A history of England under the Tudors and Stuarts, focusing primarily on demographic, social, cultural, and political developments.
Attributes: European History
Grade Mode: Normal Grading Mode

HST 407 Sex and Sexuality in the US **3 Credit hours**
Examines the history of sex and sexuality in North America in the context of cultural, legal, economic, political and social history from the 16th century to present.
Attributes: United States History
Grade Mode: Normal Grading Mode

HST 408 History of LGBT Peoples **3 Credit hours**
A survey of gay, lesbian, bisexual and transgender history in the United States from the colonial period to the present. A survey of gay, lesbian, bisexual and transgender history in the United States from the colonial period to the present.
Attributes: United States History
Grade Mode: Normal Grading Mode

HST 409 American Revolution **3 Credit hours**
A varied view of the American Revolution and its impact on the American people. A varied view of the American Revolution and its impact on the American people.
Attributes: United States History
Grade Mode: Normal Grading Mode

HST 413 Hist Old South 1492-1860 **3 Credit hours**
The History of the Old South is a study of the political, economic, social, and cultural conditions in the South that led to the development of the South as a distinct section in the United States. The History of the Old South is a study of the political, economic, social, and cultural conditions in the South that led to the development of the South as a distinct section in the United States.
Attributes: United States History
Grade Mode: Normal Grading Mode

HST 414 Am Civil War & Reconstruc **3 Credit hours**
A discussion of the economic, political, social, and cultural differences leading to the Civil War, the war itself, and an analysis of the political and economic importance of Reconstruction. A discussion of the economic, political, social, and cultural differences leading to the Civil War, the war itself, and an analysis of the political and economic impor- tance of Reconstruction.
Attributes: United States History
Grade Mode: Normal Grading Mode

HST 415 Hist New South 1877-Pres **3 Credit hours**
A study of the political, economic, social, and cultural changes in the South after Reconstruction, which explains conditions in the contemporary South. A study of the political, economic, social, and cultural changes in the South after Reconstruction, which explains conditions in the contemporary South.
Attributes: United States History
Grade Mode: Normal Grading Mode

HST 417 U.S. West to 1900 **3 Credit hours**
A study of the social, cultural, political, and economic history of the US West to 1900, along with West's place in public memory.
Attributes: United States History
Grade Mode: Normal Grading Mode

HST 421 Renaissance & Reformation **3 Credit hours**
The impact of the Renaissance upon esthetic, economic, and political developments especially in the 15th and 16th centuries. The decline of Catholicism and the growth of the Protestant movement, and the influence of the two movements upon each other are stressed. The impact of the Renaissance upon esthetic, economic, and political developments especially in the 15th and 16th centuries. The decline of Catholicism and the growth of the Protestant movement, and the influence of the two movements upon each other are stressed.
Attributes: European History
Grade Mode: Normal Grading Mode

HST 424 US Science & Technology **3 Credit hours**
A study of the development and impact of science and technology in the U.S. A study of the development and impact of science and tech- nology in the U.S.
Attributes: American Institutions, United States History
Grade Mode: Normal Grading Mode

HST 425 European Hist 1814-1914 **3 Credit hours**
A century of European policital, economic, and social history and its relationship to and influence upon the history of other world areas is noted. The impact of imperialistic rivalry is emphasized. A century of European policital, economic, and social history and its relationship to and influence upon the history of other world areas is noted. The impact of imperialistic rivalry is emphasized.
Attributes: European History
Grade Mode: Normal Grading Mode

HST 426 European Hist 1914-Pres **3 Credit hours**
The impact of World War I upon Europe, the era between two world wars, the search for world peace, and World War II and its aftermath are major topics of consideration. The impact of World War I upon Europe, the era between two world wars, the search for world peace, and World War II and its aftermath are major topics of consideration.
Attributes: European History, International
Grade Mode: Normal Grading Mode

HST 427 The World at War **3 Credit hours**
This course explores the Second World War. It probes the nexus of diplomacy, politics, ideology, military strategy and operations, economics, and technological innovation that generated a truly global "total war."
Attributes: Social Sciences, World History
Grade Mode: Normal Grading Mode

HST 428 Intel & Cult Hist Mod Eur **3 Credit hours**
A survey of the main events in European thought and culture in the 19th and 20th centuries. A survey of the main events in European thought and culture in the 19th and 20th centuries.
Attributes: European History, International
Grade Mode: Normal Grading Mode

HST 430 Soviet Russia and Beyond **3 Credit hours**
Rise and fall of the Soviet Union, with emphasis on political and economic changes and Soviet frreign policy, and including an examination of the aftermath of the Soviet Union's collapse. Rise and fall of the Soviet Union, with emphasis on political and economic changes and Soviet frreign policy, and including an examination of the aftermath of the Soviet Union's collapse.
Attributes: European History, International
Grade Mode: Normal Grading Mode

HST 431 America in the Gilded Age **3 Credit hours**
A study of America's transformation from a rural, agrarian nation into an urban, industrial world power; the final destruction of the American Indian; the settlement of the West; and the farmers' revolt. A study of America's transformation from a rural, agrarian nation into an urban, industrial world power; the final destruction of the American Indian; the settlement of the West; and the farmers' revolt.
Attributes: American Institutions, United States History
Grade Mode: Normal Grading Mode

HST 433 In Our Time-Am Since 1945 **3 Credit hours**
A study of America since World War II, focusing mainly on domestic politics, foreign affairs, the civil rights movement, the rise of minorities, and the fragmentation of American society. A study of America since World War II, focusing mainly on domestic politics, foreign affairs, the civil rights move- ment, the rise of minorities, and the fragmentation of American society.
Attributes: American Institutions, United States History
Grade Mode: Normal Grading Mode

HST 434 The Vietnam War **3 Credit hours**
A study of the origin and escalation of American involvement in Vietnam, the domestic impact of the war within the United States and the collapse of the South Vietnamese government. A study of the origin and escalation of American involvement in Vietnam, the domestic impact of the war within the United States and the collapse of the South Vietnamese government.
Attributes: International, United States History
Grade Mode: Normal Grading Mode

HST 435 Modern Japan **3 Credit hours**
Begins with an overview of nineteenth century Japan and stresses the twentieth century rise of Japan to the position of world power. Begins with an overview of nineteenth century Japan and stresses the twentieth century rise of Japan to the position of world power.
Attributes: International, World History
Grade Mode: Normal Grading Mode

HST 436 Modern China **3 Credit hours**
This course will provide an overview of Chinese history in the modern era (1600 to present), including the major political, cultural, social and intellectual events and trends of this period. This course will provide an overview of Chinese history in the modern era (1600 to present), including the major political, cultural, social and intellectual events and trends of this period.
Attributes: World History
Grade Mode: Normal Grading Mode

HST 437 Seminar in Public History **3 Credit hours**
Introduction to the basic theories, ideas, and approaches to the application of historical theory or methods to projects presented to non-student publics; local and economic development applications and projects emphasized.
Attributes: United States History
Grade Mode: Normal Grading Mode

HST 438 Stuff and Things in History **3 Credit hours**
This course investigates the rich potential of"things" -- objects, landscapes, buildings, household utensils, furniture, foods, works of art, clothing, etc -- as sources of insight about American history and culture.
Attributes: World History
Grade Mode: Normal Grading Mode

HST 439 Modern China through Film **3 Credit hours**
Through a combination of films,lectures,readings,discussions and writings the course will show how China took its unique path to modernization. Through a combination of films,lectures,readings,discussions and writings the course will show how China took its unique path to modernization.
Attributes: World History
Grade Mode: Normal Grading Mode

HST 440 West Virginia History **3 Credit hours**
An interdisciplinary study of the state, its people and its institutions within the national context. An interdisciplinary study of the state, its people and its institutions within the national context.
Attributes: American Institutions, United States History
Grade Mode: Normal Grading Mode

HST 443 20th Century US Womens Hst **3 Credit hours**
This course explores the diverse lives and experiences of 20th century US women, always with an emphasis on power. This course explores the diverse lives and experiences of 20th century US women, always with an emphasis on power.
Attributes: United States History
Grade Mode: Normal Grading Mode

HST 444 US Popular Culture **3 Credit hours**
Explores the roles of popular media, art, consumer culture, and public entertainments in the development of popular culture in the United States from the 18th Century to the present.
Attributes: United States History
Grade Mode: Normal Grading Mode

HST 445 Arab-Israeli Conflict **3 Credit hours**
This course will examine the historical developments of the modern Arab-Israeli conflict, with emphasis placed on political, socioeconomic, and cultural change and the prospects for peace. This course will examine the historical developments of the modern Arab-Israeli conflict, with emphasis placed on political, socioeconomic, and cultural change and the prospects for peace.
Attributes: World History
Grade Mode: Normal Grading Mode

HST 446 Rise of Atlantic World **3 Credit hours**
This course considers the expansion of Western Europe, beginning in the early 1400's to Africa, Latin America, and other parts of the Atlantic world.
Attributes: World History
Grade Mode: Normal Grading Mode

HST 447 Film and Empire **3 Credit hours**
This course explores the nature and importance of empires through the reading of key texts and the study of selected films.
Attributes: World History
Grade Mode: Normal Grading Mode

HST 448 British History in Film **3 Credit hours**
This course explores selected aspects of British history through the study of films and key texts.
Attributes: European History
Grade Mode: Normal Grading Mode

HST 449 World War I in Film **3 Credit hours**
This course explores the origins, course, and meaning of World War I (1914-1918) through the use of selected films and readings.
Attributes: World History
Grade Mode: Normal Grading Mode

HST 451 History of Women in Sports **3 Credit hours**
Examines the importance of sport to the lives of girls and women and vice versa. The course encourages critical analysis of the place and value of sport in women's lives.
Attributes: United States History
Grade Mode: Normal Grading Mode

HST 452 History of Sports in America **3 Credit hours**
Examines the effects of sports on American society and culture. It explores the historical development of American sports and examine relationships between sports, nationalism, politics, economics, gender and American expansion.
Attributes: United States History
Grade Mode: Normal Grading Mode

HST 453 The Kennedy Assassination **3 Credit hours**
This course explores the events surrounding the assassination of President John F. Kennedy.
Grade Mode: Normal Grading Mode

HST 454 History of Ireland **3 Credit hours**
This course explores the history of Ireland from the Middle Ages to the Present.
Attributes: European History
Grade Mode: Normal Grading Mode

HST 458 Spies in History **3 Credit hours**
This course explores the role played by spies and espionage in modern history.
Attributes: World History
Grade Mode: Normal Grading Mode

HST 462 The Viking World **3 Credit hours**
By analyzing saga literature, poetry, and artifacts, students will examine the history of medieval Scandinavia.
Attributes: European History
Grade Mode: Normal Grading Mode

HST 465 Medieval Britain **3 Credit hours**
An examination of mainland Britain from the pre-Roman era through the Hundred Years War.
Attributes: European History
Grade Mode: Normal Grading Mode

HST 467 Fashion and Textile History **3 Credit hours**
Cross-cultural comparisons of textiles as primary sources for prehistoric cultures through the 1920's.
Attributes: World History
Grade Mode: Normal Grading Mode

HST 480 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

HST 481 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

HST 482 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

HST 483 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

HST 485 Independent Study **1-4 Credit hours**
Attributes: No Textbook Required
Grade Mode: Normal Grading Mode

HST 486 Independent Study **1-4 Credit hours**
Grade Mode: Normal Grading Mode

HST 487 Independent Study **1-4 Credit hours**
Grade Mode: Normal Grading Mode

HST 488 Independent Study **1-4 Credit hours**
Grade Mode: Normal Grading Mode

International Affairs

INT 499 Senior Seminar **3 Credit hours**
A capstone experience for International Affairs majors, intended to provide an integrated perspective on the field through the application of interdisciplinary theories, methods, and practices to global issues.
Pre-req: PSC 209 with a minimum grade of D and PSC 406 with a minimum grade of D.
Attributes: Capstone Course
Grade Mode: Normal Grading Mode

Political Science

PSC 104 Am Natl Govt & Politics (CT) **3 Credit hours**
This course will engage students in critical thinking as they explore the American federal government system, with emphasis on constiutionalism, governmental structure, and the political process.
Attributes: American Institutions, Critical Thinking, Core II Social Sciences
Grade Mode: Normal Grading Mode

PSC 105 Fundamentals of Politics (CT) **3 Credit hours**
General survey introducing the study of politics, its major concepts, processes, institutions, and fields of concern, with attention to the place of political science in the larger context of social science inquiry. General survey introducing the study of politics, its major concepts, processes, institutions, and fields of concern, with attention to the place of political science in the larger context of social science inquiry.
Attributes: Critical Thinking, Core II Social Sciences
Grade Mode: Normal Grading Mode

PSC 202 State and Local Government **3 Credit hours**
Study of the institutions, processes, and significance of this level of political life in America. Study of the institutions, processes, and significance of this level of political life in America.
Attributes: American Institutions, Core II Social Sciences
Grade Mode: Normal Grading Mode

PSC 207 Comparative Politics (CT) **3 Credit hours**
Introduction to the field of comparative politics, stressing comparative concepts and approaches to the cross-national study of politics and government, with examination of political systems, ranging from democratic to non-democratic types. Introduction to the field of comparative politics, stressing comparative concepts and approaches to the cross-national study of politics and government, with examination of political systems, ranging from democratic to non-democratic types.
Attributes: Critical Thinking, International, Core II Social Sciences
Grade Mode: Normal Grading Mode

PSC 209 Fund Internatl Relations (CT) **3 Credit hours**
Survey of major concepts and approaches in the study of international relations and analysis of processes, institutions, strategies, and trends in world politics.
Attributes: Critical Thinking, International, Core II Social Sciences
Grade Mode: Normal Grading Mode

PSC 211 Research in Political Science **3 Credit hours**
Study of the development of political science as a distinct science and discipline, and of the fundamentals of research in political science, such as bibliographic techniques, uses of scientific method, textual and case-study approaches and data analysis. Study of the development of political science as a distinct science and discipline, and of the fundamentals of research in political science, such as bibliographic techniques, uses of scientific method, textual and case-study approaches and data analysis.
Pre-req: ENG 201 with a minimum grade of C or ENG 201H with a minimum grade of C or YGS 161 with a minimum grade of C or IST 201 with a minimum grade of D or ENG 202 with a minimum grade of D or ENG 102 with a minimum grade of C or ENG 200H with a minimum grade of C.
Attributes: Core II Social Sciences
Grade Mode: Normal Grading Mode

PSC 233 Intro to Public Policy **3 Credit hours**
Basic concepts and skills in the analysis of public policy problems. Use of policy as an instrument for solving problems. Application to selected fields, for example, environmental policy and urban policy. Basic concepts and skills in the analysis of public policy problems. Use of policy as an instrument for solving problems. Application to selected fields, for example, environmental policy and urban policy.
Attributes: American Institutions, Core II Social Sciences
Grade Mode: Normal Grading Mode

PSC 280 Special Topics **1-4 Credit hours**
To offer a course on some special topic not adequately treated in the regular course offerings. To offer a course on some special topic not adequately treated in the regular course offerings.
Grade Mode: Normal Grading Mode

PSC 281 Special Topics **1-4 Credit hours**
To offer a course on some special topic not adequately treated in the regular course offerings. To offer a course on some special topic not adequately treated in the regular course offerings.
Grade Mode: Normal Grading Mode

PSC 282 Special Topics **1-4 Credit hours**
To offer a course on some special topic not adequately treated in the regular course offerings. To offer a course on some special topic not adequately treated in the regular course offerings.
Grade Mode: Normal Grading Mode

PSC 283 Special Topics **1-4 Credit hours**
To offer a course on some special topic not adequately treated in the regular course offerings. To offer a course on some special topic not adequately treated in the regular course offerings.
Grade Mode: Normal Grading Mode

PSC 303 Amer Political Parties **3 Credit hours**
Examination of the American party system, its origins, development and characteristics. Emphasis also on party organization, political ambition and recruitment, party impact on public policy, campaigns, elections, and voting behavior. Examination of the American party system, its origins, development and characteristics. Emphasis also on party organization, political ambition and recruitment, party impact on public policy, campaigns, elections, and voting behavior.
Attributes: American Institutions
Grade Mode: Normal Grading Mode

PSC 307 Public Opinion and Propaganda **3 Credit hours**
Study of the processes by which individuals acquire politically relevant information, attitudes, values, and opinions; the consequences of these processes for political stability and conflict; and the linkage of mass opinions to elite behavior. (Same as Sociology 307) Study of the processes by which individuals acquire politi- cally relevant information, attitudes, values, and opinions; the consequences of these processes for political stability and conflict; and the linkage of mass opinions to elite be- havior. (Same as Sociology 307)
Attributes: American Institutions
Grade Mode: Normal Grading Mode

PSC 310 Campaigns and Elections **3 Credit hours**
Federal and state laws for campaigns and elections and the changing mechanisms for reaching voters are covered in this course.
Grade Mode: Normal Grading Mode

PSC 311 Issues in Public Policy **3 Credit hours**
A course devoted to a special topic of interest in the policy field, such as energy, health care, transportation, environmental concerns, etc. A course devoted to a special topic of interest in the policy field, such as energy, health care, transportation, environmental concerns, etc.
Grade Mode: Normal Grading Mode

PSC 312 Research in Political Science **3 Credit hours**
Study of the development of political science as a distinct science and discipline, and of the fundamentals of research in political science, such as bibliographic techniques, uses of scientific method, textual and case-study approaches and data analysis.
Grade Mode: Normal Grading Mode

PSC 333 Intro to Public Administration **3 Credit hours**
Introduction to modern theories of administration; the relation of administration to the political system and process; and analysis of administrative organizations and functions, including planning, personnel, and finance. Introduction to modern theories of administration; the re- lation of administration to the political system and pro- cess; and analysis of administrative organizations and functions, including planning, personnel, and finance.
Grade Mode: Normal Grading Mode

PSC 376 Black Politics **3 Credit hours**
Study emphasizing power structures in black communities, dissent and protest, problems and trends, and the uniqueness of black politics as compared with the politics of other ethnic groups. Study emphasizing power structures in black communities, dissent and protest, problems and trends, and the uni- queness of black politics as compared with the politics of other ethnic groups.
Attributes: American Institutions, Multicultural
Grade Mode: Normal Grading Mode

PSC 381 Am Legislative Process **3 Credit hours**
Structure and behavior of American national and state legislative systems; the impact of constituencies, parties, interest groups, interpersonal relations, and other factors on the legislative policymaking process; the role of the legislature as a subsystem in the larger political system; and problems and trends. Structure and behavior of American national and state legislative systems; the impact of constituencies, parties, interest groups, interpersonal relations, and other factors on the legislative policymaking process; the role of the legislature as a subsystem in the larger political system; and problems and trends.
Attributes: American Institutions
Grade Mode: Normal Grading Mode

PSC 382 Student Legislative Prog **1 Credit hour**
One week of intensive legislative observation designed to provide selected students an understanding of the organization and processes of the West Virginia legislature and its role in the making of public policy. One week of intensive legislative observation designed to provide selected students an understanding of the organiza- tion and processes of the West Virginia legislature and its role in the making of public policy.
Grade Mode: Normal Grading Mode

PSC 383 The American Presidency **3 Credit hours**
Study of governmental executives in the American political system, with emphasis on the president, including analysis of constitutional status and powers, recruitment, administrative responsibilities, political and legislative leadership, accountability, and problems and trends. Study of governmental executives in the American political system, with emphasis on the president, including analysis of constitutional status and powers, recruitment, admini- strative responsibilities, political and legislative leader- ship, accountability, and problems and trends.
Attributes: American Institutions
Grade Mode: Normal Grading Mode

PSC 402 Politics of the Undead **3 Credit hours**
An exploration of political thought, international relations theory, and political economy through the pop cultural lens of vampires, zombies, and other undead creatures.
Grade Mode: Normal Grading Mode

PSC 403 War and Pop Culture **3 Credit hours**
An exploration of evolving depictions of political violence in film, television, graphic novels, video games, and popular music.
Attributes: International
Grade Mode: Normal Grading Mode

PSC 405 UN & Global Organizations **3 Credit hours**
Study of world and regional organizations as reflections of world politics, as instruments of foreign policies, and as forces for change and order, with emphasis on their role as channels for management of cooperation and conflict. Study of world and regional organizations as reflections of world politics, as instruments of foreign policies, and as forces for change and order, with emphasis on their role as channels for management of cooperation and conflict.
Attributes: International
Grade Mode: Normal Grading Mode

PSC 406 International Relations **3 Credit hours**
Study of major issues in world politics, with emphasis on theoretical approaches, problems of war and peace, and contemporary trends. Study of major issues in world politics, with emphasis on theoretical approaches, problems of war and peace, and contemporary trends.
Attributes: International
Grade Mode: Normal Grading Mode

PSC 407 Asian Politics **3 Credit hours**
Study of such nations as India, China, Japan, and Korea in the contemporary setting. Study of such nations as India, China, Japan, and Korea in the contemporary setting.
Attributes: International
Grade Mode: Normal Grading Mode

PSC 408 Middle Eastern Politics **3 Credit hours**
Study of the Arab States and such nations as Israel, Iran, and Turkey in the contemporary setting. Study of the Arab States and such nations as Israel, Iran, and Turkey in the contemporary setting.
Attributes: International
Grade Mode: Normal Grading Mode

PSC 409 Western Democratic Politics **3 Credit hours**
Study of such nations as Canada and those of Western Europe, particularly Great Britian and France. Study of such nations as Canada and those of Western Europe, particularly Great Britian and France.
Attributes: International
Grade Mode: Normal Grading Mode

PSC 410 Post Soviet Politics **3 Credit hours**
Study of the politics of Russia and the former Soviet Union. Study of the Soviet Union and Eastern Europe.
Attributes: International
Grade Mode: Normal Grading Mode

PSC 411 Latin American Politics **3 Credit hours**
Study of Latin American politics by sectors, such as landed elites, the military, the church, etc. Various styles of governance are considered. Case examples illustrate concepts discussed. Study of Latin American politics by sectors, such as landed elites, the military, the church, etc. Various styles of governance are considered. Case examples illustrate con- cepts discussed.
Attributes: International
Grade Mode: Normal Grading Mode

PSC 412 International Political Econ **3 Credit hours**
This course will examine the evolution and structure of the global economic system with emphasis on the development of the Liberal International Economic Order.
Grade Mode: Normal Grading Mode

PSC 415 International Law **3 Credit hours**
Study of theories, origins, sources, development, present state, and trends of international law as a factor in various aspects of international politics. Study of theories, origins, sources, development, present state, and trends of international law as a factor in various aspects of international politics.
Attributes: International
Grade Mode: Normal Grading Mode

PSC 416 Politics of Development **3 Credit hours**
A survey of major theories of development and modernization and issues confronting developing nations around the world.
Attributes: International
Grade Mode: Normal Grading Mode

PSC 417 Homeland Sec and Civ Lib **3 Credit hours**
An examination of the policy issues involved in protecting the U.S. homeland from terrorist and other threats, with special attention to the impact such policies have on individual liberties.
Grade Mode: Normal Grading Mode

PSC 418 American Political Thought II **3 Credit hours**
This course is a detailed examination of the philosophical and historical roots of American politics from Reconstruction through the present with emphasis on original texts.
Grade Mode: Normal Grading Mode

PSC 419 Women and Political Thought **3 Credit hours**
This course examines how women were conceptualized in the history of political philosophy and how women then began conceptualizing themselves and their relation to politics.
Grade Mode: Normal Grading Mode

PSC 420 Cur World/Regional Issues **3 Credit hours**
An intensive study of specific world or regional problems, such as the politics of world hunger, the role of multinational corporations, imperialism, Third World Communist movements, etc. An intensive study of specific world or regional problems, such as the politics of world hunger, the role of multi- national corporations, imperialism, Third World Communist movements, etc.
Attributes: International
Grade Mode: Normal Grading Mode

PSC 421 American Political Thought I **3 Credit hours**
This course is a detailed examination of the philosophical and historical roots of American politics from the Colonial era through the Civil War with emphasis on original texts. Study of the development and influence of American Political Thought with an emphasis on the linkage of ideas to political and ecomomic forces.
Grade Mode: Normal Grading Mode

PSC 422 African Political Systems **3 Credit hours**
The study of political systems of selected countries, blocs, or regions. The study of political systems of selected countries, blocs, or regions.
Attributes: International
Grade Mode: Normal Grading Mode

PSC 423 American Foreign Policy **3 Credit hours**
The study of descriptive, analytical, and normative aspects of United States foreign policy with emphasis on contemporary problems and issues. The study of descriptive, analytical, and normative aspects of United States foreign policy with emphasis on contempor- ary problems and issues.
Attributes: American Institutions, International
Grade Mode: Normal Grading Mode

PSC 424 Diplomacy **3 Credit hours**
Application of the comparative method to foreign policy decision-making and outputs. Comparisons within or between geographic regions. Application of the comparative method to foreign policy decision-making and outputs. Comparisons within or between geographic regions.
Attributes: International
Grade Mode: Normal Grading Mode

PSC 425 Classical Political Thought **3 Credit hours**
Selective study of classics of Western political theory from earliest times through the 15th century, such as that of Plato, Aristotle, the Romans, Augustine, and Aquinas.
Grade Mode: Normal Grading Mode

PSC 426 Modern Political Thought **3 Credit hours**
Selective study of classics of Western political theory from the 16th century through the 19th century, such as that of Machiavelli, Bodin, Hobbes, Locke, Rousseau, Hume, Burke, Mill, and Marx.
Grade Mode: Normal Grading Mode

PSC 427 Shapers and Definers **3 Credit hours**
A study of political leaders who have shaped and defined the American constitutional tradition.
Grade Mode: Normal Grading Mode

PSC 428 Islam and Politics **3 Credit hours**
Study of Islamic political ideas, practices, and institutions and their impact on the rise and development of contemporary Islamic movements, organizations, and states. Study of Islamic political ideas, practices, and institut- ions and their impact on the rise and development of con- temporary Islamic movements, organizations, and states.
Attributes: International
Grade Mode: Normal Grading Mode

PSC 429 Politics of Confl & Rev **3 Credit hours**
Study of major theories of conflict and revolution with emphasis on cross-national explanations and outcomes. Study of major theories of conflict and revolution with em- phasis on cross-national explanations and outcomes.
Attributes: International
Grade Mode: Normal Grading Mode

PSC 430 Political Ideologies **3 Credit hours**
This course examines modern political ideologies including Liberalism, Conservatism, Anarchism, Socialism, Facism, Feminism, and Environmentalism with emphasis on the original texts.
Grade Mode: Normal Grading Mode

PSC 431 Pol of Global Terrorism **3 Credit hours**
An examination of terrorism globally, both in its development and its current manifestations, with attention to its attractions, the difficulties of confronting it, and its implications for democratic society. Draws upon both classic and contemporary sources of politi- cal theory to address basic political issues inherent in public problems.
Grade Mode: Normal Grading Mode

PSC 432 Nonprofit Management **3 Credit hours**
This course examines the principles and applied practices of nonprofit administration including theories of nonprofit formation, fundraising appeals, executive leadership, marketing, budgeting, and strategic management.
Grade Mode: Normal Grading Mode

PSC 433 Public Adm & Policy Dev **3 Credit hours**
Examination of alternative theoretical approaches to the study of policy and administration and their implications for the use of policy to shape administrative practice. Examination of alternative theoretical approaches to the study of policy and administration and their implications for the use of policy to shape administrative practice.
Attributes: American Institutions
Grade Mode: Normal Grading Mode

PSC 434 Intel and Covert Ops **3 Credit hours**
An introduction to the institutions and processes of the U.S. Intelligence Community, with an emphasis on the vital role of intelligence in national security.
Grade Mode: Normal Grading Mode

PSC 435 Harry Potter and Pol. Theory **3 Credit hours**
Detailed examination of the Harry Potter book series through the lens of various theories and theorists of power, with emphasis on scholarly argumentation and writing.
Grade Mode: Normal Grading Mode

PSC 436 The American Judiciary **3 Credit hours**
Structure and behavior in American national and state judicial systems, including analysis of their decision making and policy making functions, their procedures and administration, and problems and trends. Structure and behavior in American national and state judi- cial systems, including analysis of their decision making and policy making functions, their procedures and administ- ration, and problems and trends.
Attributes: American Institutions
Grade Mode: Normal Grading Mode

PSC 440 Power in American Society **3 Credit hours**
Examination of some of the major theoretical approaches pluralistic, elitist, etc. to the study of power. A major concern is the relationship between the distribution of political resources and the performance of political systems. Efforts to transform political systems are examined on the basis of cross-national research. Examination of some of the major theoretical approaches - pluralistic, elitist, etc. - to the study of power. A major concern is the relationship between the distribution of political resources and the performance of political systems. Efforts to transform political systems are exam- ined on the basis of cross-national research.
Attributes: American Institutions
Grade Mode: Normal Grading Mode

PSC 442 Politics of Poverty **3 Credit hours**
A comparative course examining the political institutional methods states use to assist citizens who are poor, primarily women and children. It also addresses behavioral concerns that shape welfare policy.
Grade Mode: Normal Grading Mode

PSC 444 Dictatorship & Democracy **3 Credit hours**
An investigation of the strengths of democracies relative to dictatorships with regard to such dimensions as economic growth, income equality, health and welfare of citizens and war reductions.
Grade Mode: Normal Grading Mode

PSC 445 Environmental Politics **3 Credit hours**
This course examines multiple prespectives on the relationship between humans and nature, focusing on how particular interpretations of this relationship determine how we translate environmental concerns into political problems.
Grade Mode: Normal Grading Mode

PSC 446 Politics in History **3 Credit hours**
A study of politics as an order shattering, order restructuring force during some of America's most transformative moments.
Grade Mode: Normal Grading Mode

PSC 450 Administrative Law **3 Credit hours**
A study of the basic legal framework of administrative organization, including the problems of administrative discretion, rule-making and adjudication, regulatory agencies, and administrative responsibility in the democratic state. A study of the basic legal framework of administrative or- ganization, including the problems of administrative dis- cretion, rule-making and adjudication, regulatory agencies, and administrative responsibility in the democratic state.
Grade Mode: Normal Grading Mode

PSC 452 Public Personnel Admin **3 Credit hours**
Survey of Public Personnel Administration with particular attention to various facets of the merit system concept. Psychological and human relations aspects of the work situation and supervisor-subordinate interaction emphasized. Survey of Public Personnel Administration with particular attention to various facets of the merit system concept. Psychological and human relations aspects of the work situation and supervisor-subordinate interaction emphasized.
Grade Mode: Normal Grading Mode

PSC 453 Government Budgetary Admin **3 Credit hours**
Study of organization, administration, and accountability in the management of public funds, with emphasis on the political decision-making processes of budget formulation, presentation and execution. Study of organization, administration, and accountability in the management of public funds, with emphasis on the political decision-making processes of budget formulation, presentation and execution.
Grade Mode: Normal Grading Mode

PSC 454 Politics of the Workplace **3 Credit hours**
A study of the contributions of the behavioral sciences to the study of organizations with stress on such concepts as leadership, motivation, power conflict, organizational design and decision making. A study of the contributions of the behavioral sciences to the study of organizations with stress on such concepts as leadership, motivation, power conflict, organizational design and decision making.
Grade Mode: Normal Grading Mode

PSC 460 Civil Rights & Liberties **3 Credit hours**
Pre-req: PSC 104 or PSC 104E.
Grade Mode: Normal Grading Mode

PSC 461 Urban Prob & Pub Policy **3 Credit hours**
Study of policy problems of metropolitan areas in terms of structures, alternatives, and outcomes. Study of policy problems of metropolitan areas in terms of structures, alternatives, and outcomes.
Attributes: American Institutions
Grade Mode: Normal Grading Mode

PSC 466 Appalachian Politics **3 Credit hours**
Explores Appalachia as both a geographical region and a political construct, focusing on how politics shapes regional identity and the region's relationship to the United States.
Grade Mode: Normal Grading Mode

PSC 478 Politics and Video Games **3 Credit hours**
An exploration of the power dynamics and politics at play in video games, the video game industry, and gaming culture.
Attributes: Digital Humanities
Grade Mode: Normal Grading Mode

PSC 480 Special Topics **1-4 Credit hours**
To offer a course on some special topic which is not adequately treated in the regular course offerings. To offer a course on some special topic which is not ad- equately treated in the regular course offerings.
Grade Mode: Normal Grading Mode

PSC 481 Special Topics **1-4 Credit hours**
To offer a course on some special topic which is not adequately treated in the regular course offerings. To offer a course on some special topic which is not ad- equately treated in the regular course offerings.
Grade Mode: Normal Grading Mode

PSC 482 Special Topics **1-4 Credit hours**
To offer a course on some special topic which is not adequately treated in the regular course offerings. To offer a course on some special topic which is not ad- equately treated in the regular course offerings.
Grade Mode: Normal Grading Mode

PSC 483 Special Topics **1-4 Credit hours**
To offer a course on some special topic which is not adequately treated in the regular course offerings. To offer a course on some special topic which is not ad- equately treated in the regular course offerings.
Grade Mode: Normal Grading Mode

PSC 484 Constitutional Law **3 Credit hours**
Introduction to the principles of American constitutional law and analysis of constitutional issues, emphasizing leading Supreme Court cases. Introduction to the principles of American constitutional law and analysis of constitutional issues, emphasizing leading Supreme Court cases.
Pre-req: PSC 104E or PSC 104.
Attributes: American Institutions
Grade Mode: Normal Grading Mode

PSC 485 Independent Study **1-4 Credit hours**
These numbers are reserved for tutorials, directed and independent readings, directed and independent research, problem reports, etc. These numbers are reserved for tutorials, directed and in- dependent readings, directed and independent research, problem reports, etc.
Attributes: No Textbook Required
Grade Mode: Normal Grading Mode

PSC 486 Independent Study **1-4 Credit hours**
These numbers are reserved for tutorials, directed and independent readings, directed and independent research, problem reports, etc. These numbers are reserved for tutorials, directed and in- dependent readings, directed and independent research, problem reports, etc.
Grade Mode: Normal Grading Mode

PSC 487 Independent Study **1-4 Credit hours**
These numbers are reserved for tutorials, directed and independent readings, directed and independent research, problem reports, etc. These numbers are reserved for tutorials, directed and in- dependent readings, directed and independent research, problem reports, etc.
Grade Mode: Normal Grading Mode

PSC 488 Independent Study **1-4 Credit hours**
These numbers are reserved for tutorials, directed and independent readings, directed and independent research, problem reports, etc. These numbers are reserved for tutorials, directed and in- dependent readings, directed and independent research, problem reports, etc.
Grade Mode: Normal Grading Mode

PSC 489 Seminar in Public Service **3 Credit hours**
Grade Mode: Normal Grading Mode

PSC 490 Public Service Internship **6 Credit hours**
Grade Mode: Normal Grading Mode

PSC 499 Capstone Experience **3 Credit hours**
This course is designed as a culminating experience for seniors. Students will engage in a service learning project that combines scholarly interests with real life skills. Course offered only in Fall Semester. This course is designed to integrate political theory with politics by considering the relevance of political phil- osophy to contemporary political questions. Capstone ex- perience must be completed in the senior year.
Pre-req: PSC 211 with a minimum grade of D.
Attributes: Capstone Course
Grade Mode: Normal Grading Mode

International Affairs, B.A.

- General Education Course

- Milestone course: a key success marker for your major. See your advisor to discuss the importance of this course in your plan of study.

Major

The Core Curriculum is designed to foster critical thinking skills and introduce students to basic domains of thinking that transcend disciplines. The Core applies to all majors. Information on specific classes in the Core can be found at https://www.marshall.edu/gened/.

Code	Title	Credit Hours
Core Curriculum		
Core 1: Critcal Thinking		
FYS 100	First Yr Sem Critical Thinking	3
MTH 121	Concepts and Applications (CT)	3
HST 103	The World Since 1850 (CT)	3
Core 2		
ENG 101	Beginning Composition	3
ENG 201	Advanced Composition	3
CMM 103	Fund Speech-Communication	3
MTH 121	Concepts and Applications (CT)	3
Core II Natural/Physical Science		4
Core II Humanities		3
HST 103	The World Since 1850 (CT) (Core II Social Science) (I)	3
Core II Fine Arts		3
Additional University Requirements		
Writing Intensive (COLA Literature)		3
Writing Intensive (COLA Literature)		3
HST 103	The World Since 1850 (CT) (Multicultural/ International)	3
INT 499	Senior Seminar (Capstone)	3
College-Specific		
Foreign Language 101		3
Foreign Language 102		3
Foreign Language 203		3
Foreign Language 204		3
COLA Literature (WI)		3
COLA Literature (WI)		3
COLA Humanities		3
COLA Social Science		3
COLA Social Science		3
COLA Natural/Physical Science		4
PSC 209	Fund Internatl Relations (CT) (COLA International)	3
COLA Multicultural		3
Major-Specific		
Geography Elective - See options below		
HST 103	The World Since 1850 (CT) (I)	3
History Elective		6
The student will concentrate on a single foreign language. A minimum of six hours beyond the 204 level is required, including at least one conversation and/or composition course of the following:		6
FRN 305	Intro to FRN Comp & Conv	
GER 315 & GER 316	Advanced Grammar, Conv, Comp and Advanced Grammar & Conv & Comp	
JPN 307	Japanese Conversation	
SPN 305 & SPN 306	Intro to SPN Conversation I and Intro To SPN Conversation II	
PSC 207	Comparative Politics (CT)	3
PSC 209	Fund Internatl Relations (CT)	3
PSC 406	International Relations	3
PSC 412	International Political Econ	3
Political Science Elective - See options below		3
International Affairs Elective - See options below		6
INT 499	Senior Seminar	3
Free Elective		3
Free Elective		3

Major Information

- The total number of free electives will depend on the amount of double and triple counting of requirements.
- See course attributes each semester for courses that meet multiple requirements.
- Questions about requirements should be directed to the College of Liberal Arts (304-696-2350). Core II and COLA requirements may not be double counted.

- Forty-eight credit hours (sixteen 3-hour courses) must be at the 300/400 level.
- Students must earn a *C* or better in ENG 201 Advanced Composition and all foreign language courses.
- Minimum of 120 hours to graduate.
- The student will concentrate on a single foreign language. A minimum of six hours beyond the 204 level is required, including at least one conversation and/or composition course (FRN 305/306, GER 315/316, JPN 307, SPN 305/306).
- HST Elective may be met by taking six hours from the following: HST 206, 208, 223, 265, 231, 301, 302, 303, 304, 305, 306, 307, 311, 313, 361, 378, 392, 404, 405, 423, 425, 426, 428, 430, 434, 435, 436, 439, 442, 445, 446, 449, or 458.
- PSC Elective may be met by taking one of the following: PSC 403, 405, 407, 408, 409, 410, 411, 415, 416, 420, 422, 423, 424, 428, 429, 431, 434, 444, 04 478.
- IA Electives (choose 6 additional hours) ANT 201, ANT 440, ANT 441, ANT 465, ANT 468, ECN 408, ECN 420, ECN 421, ECN 460, PSC 403, PSC 405, PSC 407, PSC 408, PSC 409, PSC 410, PSC 411, PSC 415, PSC 416, PSC 420, PSC 422, PSC 423, PSC 424, PSC 428, PSC 429, PSC 431, PSC 434, PSC 444, PSC 478, HST 206, HST 208, HST 223, HST 231, HST 265, HST 301, HST 302, HST 303, HST 304, HST 305, HST 306, HST 307, HST 311, HST 313, HST 361, HST 378, HST 392, HST 404, HST 405, HST 423, HST 425, HST 426, HST 428, HST 430, HST 434, HST 435, HST 436, HST 439, HST 442, HST 445, HST 446, HST 449, HST 458, GEO 100, GEO 222, GEO 317, GEO 404, GEO 406, GEO 408, GEO 422.
- GEO Elective may be met by taking one of the following: GEO 100, GEO 222, GEO 317, GEO 404, GEO 406, GEO 408, or GEO 422.

- General Education Course

- Milestone course: a key success marker for your major. See your advisor to discuss the importance of this course in your plan of study.

Four Year Plan

International Relations is an interdisciplinary undergraduate major focusing on the changing political, economic and cultural relations within the international system of the modern era. The program explores how global, regional, and domestic factors influence relations between actors on the world stage. Students are equipped with both the foundational skills and specific knowledge necessary to analyze the choices and challenges that arise in this arena.

Course	Title	Credit Hours
First Year		
First Semester		
CMM 103	Fund Speech-Communication	3
ENG 101	Beginning Composition	3
FYS 100	First Yr Sem Critical Thinking	3
HST 103	The World Since 1850 (CT) (Core II Social Science) (I)	3
Core II Fine Arts		3
UNI 100	Freshman First Class	1
	Credit Hours	**16**
Second Semester		
ENG 201	Advanced Composition	3
Core II Physical/Natural Science		4
MTH 121	Concepts and Applications (CT)	3
COLA Social Science		3
Core II Humanities		3
	Credit Hours	**16**
Second Year		
First Semester		
PSC 207	Comparative Politics (CT) (COLA Social Science)	3
Foreign Language 101		3
PSC 209	Fund Internatl Relations (CT) (COLA International)	3
COLA Social Science		3
Free Elective		3
	Credit Hours	**15**
Second Semester		
Foreign Language 102		3
COLA Physical/Natural Science		4
Free Elective		3
Free Elective		3
	Credit Hours	**13**
Third Year		
First Semester		
COLA Literature (WI)		3
COLA Multicultural		3
Foreign Language 203		3
Free Elective		3
Free Elective		3
	Credit Hours	**15**
Second Semester		
History Elective		3
Foreign Language 204		3
PSC Elective		3
International Affairs Elective		3
Geography Elective		3
	Credit Hours	**15**
Fourth Year		
First Semester		
PSC 406	International Relations	3
PSC 412	International Political Econ	3
COLA Literature (WI)		3
Foreign Language above 204		3
International Affairs Elective		3
	Credit Hours	**15**
Second Semester		
INT 499	Senior Seminar (Capstone)	3
Foreign Language above 204		3
COLA Humanities		3
HST History Elective		3

Free Elective		3
	Credit Hours	**15**
	Total Credit Hours	**120**

International Affairs, Minor

A minor in International Affairs requires 12 credit hours.

In the interest of promoting interdisciplinary learning within the minor, students must select these 9 hours from at least two different departments listed below:

Code	Title	Credit Hours
Required Course		
PSC 209	Fund Internatl Relations (CT)	3
Department Courses		
Select three of the following from at least two different departments:		9
Anthropology		
ANT 201	Cultural Anthropology (CT)	
Economics		
ECN 408	Comparative Econ Systems	
ECN 420	International Trade	
ECN 421	Global Macroeconomic Analysis	
ECN 460	Economic of Dev Countries	
Communication Studies		
CMM 322	Intercultural Communication	
Geography		
GEO 222	Global Environment Issues (CT)	
GEO 317	World Regional Geography	
GEO 404	Geography of Europe	
GEO 405	Political Geography	
GEO 408	Geog of South & Middle America	
History		
HST 103	The World Since 1850 (CT)	
HST 208	The Developing World (CT)	
HST 223	Rise & Fall Nazi Germany	
HST 260	Rise of Islam 570-1750	
HST 265	Modern East Asia	
HST 302	Lat Am Independence-Pres	
HST 303	American Military History	
HST 304	Spanish History Since 1475	
HST 305	Drug Wars	
HST 306	The Holocaust	
HST 307	The Global Cold War	
HST 311	World War I	
HST 361	The Modern Middle East	
HST 378	Modern Asia	
HST 405	Amer Diplomacy 1900-Pres	
HST 425	European Hist 1814-1914	
HST 426	European Hist 1914-Pres	
HST 428	Intel & Cult Hist Mod Eur	
HST 430	Soviet Russia and Beyond	
HST 434	The Vietnam War	
HST 435	Modern Japan	
HST 436	Modern China	
HST 439	Modern China through Film	
HST 445	Arab-Israeli Conflict	
International Affairs		
INT 499	Senior Seminar	
Political Science		
PSC 207	Comparative Politics (CT)	
PSC 405	UN & Global Organizations	
PSC 406	International Relations	
PSC 407	Asian Politics	
PSC 408	Middle Eastern Politics	
PSC 409	Western Democratic Politics	
PSC 410	Post Soviet Politics	
PSC 411	Latin American Politics	
PSC 412	International Political Econ	
PSC 415	International Law	
PSC 416	Politics of Development	
PSC 420	Cur World/Regional Issues	
PSC 422	African Political Systems	
PSC 423	American Foreign Policy	
PSC 424	Diplomacy	
PSC 428	Islam and Politics	
PSC 429	Politics of Confl & Rev	
PSC 431	Pol of Global Terrorism	
PSC 444	Dictatorship & Democracy	
Appropriate special topics courses may also count toward the minor with approval of the International Affairs Director.		
Total Credit Hours		**12**

College of Education and Professional Development

Contacts: Dr. Teresa Eagle, Dean; Dr. Thelma (Sissy) Isaacs, Associate Dean; Dr. Sandra Stroebel, Associate Dean
Website: http://www.marshall.edu/coepd (http://www.marshall.edu/coepd/)

Mission of the College

The College of Education and Professional Development (COEPD) is one of the oldest academic units within Marshall University. When the West Virginia Legislature purchased Marshall College in 1867, it ensured the preparation of teachers by establishing the West Virginia State Normal School as part of the college program. This function has remained an integral part of the university mission throughout the years.

The College of Education and Professional Development continues to prepare teachers and other professional educators, including

counselors, principals, supervisors, and superintendents. It also provides continuing education opportunities for professional educators. All teacher education programs at Marshall University are under the direction of the College of Education.

The College of Education and Professional Development provides educational services for students and the community which include the Appalachian Rural Systemic Initiative, Appalachian Studies Association, Autism Training Center, Child Development Academy, Early Education Center, Learning Resources Center (LRC), Testing Center, the Center for Higher Education for Learning Problems (HELP), the Center for Reading Excellence, and the June C. Harless Center for Rural Educational Research and Development. The College of Education and Professional Development provides education and services for programs that are open, complex, demanding, and evolving. It meets the academic needs of educators and other professional personnel.

Program Changes for the College of Education and Professional Development

Students in the College of Education and Professional Development should monitor their programs of study carefully due to ongoing curricular changes. Please check with your advisor and/or the director of the Student Center of Professional Education Services (SCOPES) for information regarding your program.

Pre-Teacher Education

Incoming freshmen are admitted to Marshall University as Pre-Teacher Education students. During this time students are encouraged to register for Core Curriculum requirements. There is no bachelor's degree granted in pre-teacher education. Full admission to teacher education is dependent on successful completion of the requirements for admission to teacher education. To promote satisfactory academic progress and progress toward graduation, Pre-Teacher Education students must be admitted to the Teacher Education program prior to the completion of 90 credit hours. As noted below, admission to Teacher Education status requires a 2.80 GPA and successful completion of the Praxis CORE Academic Skills for Educators Exam. Pre-Teacher Education students should plan well in advance to insure that these requirements are met prior to completion of their 90th credit hour.

Transfer students are also admitted under the Pre-Teacher Education curriculum until they have met all of the standards for admission to teacher education.

Minor

No education minor is available through the College of Education.

Clinical Experiences

All teacher education students participate in clinical experiences which permit them to observe children or youth in activities which are examples of the teaching/learning process. These experiences are provided in cooperation with the local public schools. Students who enroll for these experiences must meet the standards of professionalism and conduct that apply to employees in the schools to which they are assigned.

Certain other programs require clinical experiences that are associated with specific courses. Students should examine the "Courses of Instruction" section of this catalog for descriptions of courses in their programs.

The College of Education and Professional Development *Clinical Handbook* can be accessed online at www.marshall.edu/coepd/plc (http://www.marshall.edu/coepd/plc/).

Certificate Renewal

Marshall University, in addition to offering teacher preparation programs, is actively involved in the continuing education of all professional teachers. The West Virginia Board of Education has approved a program of continuing education for all professional teachers and school service personnel. Information relative to renewal of a teacher's professional certificate is available from the SCOPES Office, Education Building Room 201.

College of Education and Professional Development Programs

The degree offered by the College of Education and Professional Development is the Bachelor of Arts degree (B.A.). Students may select from the following teacher education programs:

1. Early Childhood Education
2. Elementary Education K-6 Comprehensive
3. PreK-Adult Education
   - Art
   - Music
   - Wellness
4. Secondary 5-Adult Education
   - English
   - General Science
   - Mathematics
   - Social Studies
5. Secondary 9-Adult Education
   - Biological Sciences
   - Chemistry
   - Physics
6. Additional Endorsement Programs - Optional programs that must be coupled with one of the above listed majors.
   - Early Education PK-K
   - English 5-9
   - General Science 5-9
   - Mathematics 5-9
   - Multi-Categorical Special Education K-6 or 5-Adult
   - Social Studies 5-9

Students obtain curriculum sheets from the Student Center of Professional Education Services (SCOPES), 201 Education Building, when they declare their majors. These sheets will assist in the planning and in the recording of progress.

Students should monitor their programs of study carefully due to ongoing curricular changes in many programs.

Departments

- Curriculum, Instruction and Foundations (p. 411)
- Early Childhood Education (p. 439)

Admission Requirements

Regular admission to the university constitutes admission to the College of Education and Professional Development for entering freshmen.

Admission to Teacher Education

1. Enrolled in the College of Education and Professional Development as a **Pre-Teacher Education** major.
2. Completed at least 24 credit hours, including EDF 201 Ed Psych Developing Learner/EDF 270 Level I Clinical Exp (12 hours for transfer students).
3. Maintained Grade Point Average of 2.80 or better for all courses attempted **overall**.
4. Maintained Grade Point Average of 2.80 or better for all courses attempted at Marshall University.
5. ACT composite of 21 (see the Student Center of Professional Education Services, 201 Education Building, for alternative entrance table).
6. Successfully passed **all three parts** (reading, writing, mathematics) of the Praxis CORE Academic Skills for Educators Exam, a requirement of the West Virginia Department of Education. This test **must be successfully completed within the first 24 hours of coursework in order for the student to make continuous progress in the professional education core.**
   Transfer students **must** complete the Praxis CORE Academic Skills for Educators Exam during their first 12 hours at Marshall University if they plan to begin professional education core classes during their second academic term.
7. Completion of Self-Assessment in LiveText.
8. Completion of Writing Sample in LiveText.
9. Three Recommendations uploaded to LiveText.

Process for Application for Admission to Teacher Education

1. During enrollment in EDF 201 Ed Psych Developing Learner, each student will be asked to submit an Application for Admission to Teacher Education.
2. During the semester the application is submitted, personnel in the Student Center of Professional Education Services (SCOPES) (Education Building 201) will evaluate each student's record to determine eligibility for admission to Teacher Education.
3. Each transfer student is responsible for initiating the application procedure through the Student Center of Professional Education Services (SCOPES), 201 Education Building.

Students who desire to become teachers in early childhood, pre-kindergarten/kindergarten, elementary, middle, and secondary schools and who are confident that they can attain the standards of academic and professional competency required, enroll in the College of Education. Students who are enrolled in another college or school of the university may not enroll in the professional education core courses except for EDF 201 Ed Psych Developing Learner and EDF 270 Level I Clinical Exp.

Beginning Spring 2018, any candidate who wishes to student teach must successfully complete the Praxis II Content exam prior to the first day of the clinical placement.

Admission to Student Teaching at Marshall University

Requires the following:

1. Completion of the professional education core prerequisites.
2. **Core Curriculum Requirements** with the grade of *C* or better in ENG 101 Beginning Composition, ENG 201 Advanced Composition, or ENG 201H English Comp Honors.
3. A Grade Point Average of 2.80 or better in all courses attempted, all coursework at Marshall University, and all courses in the teaching specializations; and a 3.0 in all courses in professional education. Courses in specialization(s) and professional education must be passed with the grade of *C* or better. Students should review their program sheets to identify professional education courses. It will be the student's responsibility to insure that the above grade averages have been met prior to entering student teaching. Any student who enters student teaching without the above grade averages will be withdrawn by administrative action.
4. The completion of 90% of the coursework in the teaching specialization(s). Applicants must complete a minimum of 100 hours prior to the beginning of student teaching. All professional education courses must be taken prior to student teaching.
5. **Application for Student Teaching.** Applications must be completed the semester previous to enrolling for this experience.
6. Successful passage of the Praxis II Content exam.

Note: Students who are members of varsity teams may not participate in the student teaching program during the active season of their particular sport (e.g., football team members may enroll for student teaching only during the spring semester, basketball team members may enroll for student teaching only during the fall semester and so on).

Site Selection

Teacher candidates will be placed in public schools where there is exposure to students who are diverse, at risk, and have special needs. The public school supervisors at the schools have a thorough understanding of the College of Education's expectations for the candidates during these experiences. While in these schools, the teacher candidates will have an opportunity to integrate content, basic professional knowledge and pedagogical skills in an appropriate educational setting.

Academic Policies

Academic Probation

Any student who has less than a 2.0 average will be placed on academic probation. Students with transfer credit must satisfy the 2.0 overall and institutional requirement.

A student on probation must show the improvement stipulated by the Marshall University Academic Probation and Suspension Policy during each succeeding term in which he or she is enrolled. Students failing to meet this standard will be suspended and declared ineligible to attend the next regular academic semester or may be dismissed from the university.

1. Students, while on academic probation, must request permission to enroll each term from the director of the Student Center of Professional Education Services (SCOPES) in Education Building 201.

2. Students desiring to take courses at another institution must complete an official request form seeking approval **prior** to visiting another institution as a transient student.

Clinical Experiences

Purified Protein Derivative (PPD) Test

Students will not be permitted to work in any public school without a valid negative PPD test. The West Virginia State law concerning PPD examinations for persons entering public schools (HB 709) states that a person working with public school children **must** have a PPD examination prior to entering public school. This examination is valid for one year with the following exception:

If the PPD results in a positive reaction, the examinee must submit to an x-ray examination each year thereafter. If the x-ray proves negative, the person is then permitted to work in public school.

Students who expect to enter schools for clinical experiences during any semester must arrange for a PPD test prior to entering the school. **Remember**, there is a **three** day waiting period for a PPD test. Persons are not permitted to enter a public school until a negative report is obtained. *Reports must be carried with the student and presented to the principal or his/her representative upon entering a school*.

Check with the instructor of your course or inquire in the Student Center of Professional Education Services (SCOPES) for further details.

Background Check Policy

All students representing Marshall University must be authorized by the director of clinical experiences prior the entering a school.

West Virginia law mandates that all persons entering a school or having contact with students must have completed a background check and have not been found on the sexual offender registry prior to entering a school. Each county and school can also use the results of that background check as a basis for admitting or denying admittance. It is the procedure of the Marshall University College of Education and Professional Development that every student will obtain a background check prior to being placed in a school setting.

Marshall University has chosen Castlebranch.com (https://discover.castlebranch.com/) as an approved provider of background checks for our students. You must obtain a background check at Castlebranch.com (https://discover.castlebranch.com/) or another third party vendor (approved by the Student Center of Professional Education) to be permitted into a school. All results must be received prior to placement for any clinical assignment. Castlebranch charges $46.00 for this service. Renewals are cheaper – check the website. All fees are the responsibility of the student. You should contact the clinical office at 304-696-2861 if you have any questions about your background check.

All students entering a field experience must complete a background check every 12 months.

Student Teaching

An applicant for a professional certificate who is to be recommended to the West Virginia Department of Education for licensure must enroll for student teaching at Marshall University.

Students are assigned to public schools that have an agreement to provide student teaching experiences in cooperation with Marshall University. Since the supply of supervising teachers is limited and the College of Education and Professional Development has a large number of teacher candidates, it is sometimes necessary to assign students to selected schools outside the campus area. It is not possible to place students in schools within walking distance. Students must provide transportation to student teaching site(s). In all cases the responsibility for placements rests with the Director of Clinical Experiences and with the approval of the public school administration of the county and school in which the student is to be placed. Students who are assigned a student teaching position but who do not complete the assignment may not be assured of a future assignment.

Policies for Admission and Retention in the Undergraduate Teacher Education Program

Admission to Teacher Education

Undergraduate, post-baccalaureate, or graduate students pursuing initial licensure in Elementary or Secondary Education must be admitted to teacher education before they can take professional education courses or student teach.

Monitoring Acceptance Status

Once applications are processed and entered on the teacher education database, the student will receive an e-mail that indicates whether he/she has been accepted in teacher education or if any deficiencies exist.

Appeals of Acceptance Status

Students who have not been fully accepted in teacher education may appeal to the Teacher Education Standards Committee (TESC). The Teacher Education Standards Committee meets the Friday before each semester begins (fall and spring semesters only). Students make an appointment to see the committee through the Student Center of Professional Education Services (SCOPES), Education Building 201, prior to the beginning of the semester.

Maintaining Admission Status

Students who have been admitted into teacher education programs must continue to meet all criteria that were required for admission throughout their course of study. Failure to maintain those criteria could result in probationary status or dismissal from the program.

It is expected that students in professional education programs exhibit professional behaviors and apply professional knowledge in their coursework and clinical experiences. Students will be expected to:

- Communicate effectively both orally and in writing;
- Apply professional knowledge and skills (content and methodology) to meet their ethical and professional responsibilities in order to enhance student learning;
- During coursework and clinical experiences, demonstrate a respect for individual and family diversity;
- Demonstrate the application of critical thinking skills;
- Meet all standards of professional behavior established at each clinical site.

Probationary Status or Unsatisfactory Performance

Initiating the Process

Any member of the professional education community who questions the competency of a candidate related to any of the criteria for admission or other relevant professional performance standard, as described above, should contact the candidate's program director. The program director will request that the Executive Cabinet for the College

of Education and Professional Development review the candidate's overall performance and make one of three decisions.

- Student's performance is satisfactory
- Student's performance is unsatisfactory; the student should be put on probation and counseled with an appropriate plan for action. The Teacher Education Standards Committee should be notified.
- Student Performance is extremely unsatisfactory; the student should be counseled regarding options for a major other than teacher education. If necessary, the case would be referred to the Teacher Education Standards Committee.

The student will be informed of each performance review, have the opportunity to meet with the Executive Cabinet and the Teacher Education Standards Committee, and be informed of the decisions of the committees.

Determining Probation

To place a student on probation, the program director will notify the Executive Cabinet that he/she is recommending probationary status for the student.

- If the Executive Cabinet agrees with this recommendation, it will oversee development of a plan of action that identifies the areas of concern, an intervention plan, expectations for satisfactory performance, a monitoring process and timeline including what impact the probationary status would have on student teaching, and specified consequences. The student will receive a copy of the recommended plan.
- The Teacher Education Standards Committee will review the plan and endorse it or ask for more clarification first. The student may request to meet with TESC if he/she objects to any portion of the plan. TESC will then make the decision regarding the plan, and notify all parties. The student will receive a copy of the final plan and will meet with the Associate Dean and the Program Director (or representative) to review the plan.
- At the end of the time period specified in the action plan, the Executive Cabinet will either recommend removal or extension of the probationary status or dismissal from teacher education.

Determining Extremely Unsatisfactory Performance

To recommend that a student not continue in teacher education, the program director will submit a written recommendation from the Executive Cabinet with supporting documentation to the Teacher Education Standards Committee. The student will also receive the information.

- Within 21 days, the Teacher Education Standards Committee will meet to review the recommendation. At that time the Program Director (or representative) and the student will be asked to meet with the committee. Each will have the opportunity to present his/her case with supporting evidence.
- The Teacher Education Standards Committee will then meet in a closed session to make a decision either not to permit the student to continue in teacher education or to place him/her on a continuing probationary status.
- All parties involved will be advised of the results of the review.
- If a student is placed on continuing probation, a timeline for improvement will be developed. If the student does not improve, he/she will not be permitted to continue in teacher education.
- Students who are not successful on continuing probation in the teacher education program will be notified in writing by the chair of the Teacher Education Standards Committee. Reasons for non-continuation in the program will be explained as they relate to standards of professional behavior.

Procedures for Appeal

The decision of the Teacher Education Standards Committee may be appealed to the Dean of the College of Education and Professional Development on the grounds of due process. This is the final decision level in the College of Education and Professional Development.

Degree Requirements

Students who expect to complete degree requirements in the College of Education and Professional Development are required to complete their ***capstone experience*** during one semester of the senior year. Students must complete at least 56 hours at Marshall University.

Candidates for a bachelor's degree who entered Marshall University within ten years prior to their graduation may graduate by meeting the requirements in effect at the time of their entrance into the College of Education and Professional Development.

When the candidate fails to complete the requirements within ten (10) years, he/she must meet the graduation/certification requirements in effect at the time of re-entry to the program. Any questions related to this matter should be referred to the director of the Student Center of Professional Education Services (SCOPES).

Credit for Courses Offered Externally

Credits earned through correspondence, extension, military service, radio, television, and special examinations are accepted up to a maximum of 28 semester hours. Courses are accepted only if such courses are offered by institutions of higher education which are accredited by a regional accreditation association of secondary schools and colleges and the National Council for Accreditation of Teacher Education. Enrollment for any such credit should be approved through the Student Center of Professional Education Services (SCOPES) prior to enrollment.

Program Requirements

The following information refers to programming required in the College of Education and Professional Development.

Students must complete the curricular requirements as outlined in the undergraduate catalog in effect at the time they enter their degree programs. **Students should monitor their programs of study carefully due to ongoing curricular changes.**

A minimum of 120 semester hours is required by the university for graduation. The degree program selected by a College of Education and Professional Development major could require additional hours to satisfy graduation. Program curricula, as printed, could have the same course listed in the general studies and the option areas. These need to be identified to determine the **specific number** of **semester hours required** for graduation in the selected major(s).

Credits for developmental courses are not included in the minimum 120-hour total.

A minimum of 45 semester hours must be earned in 300-400 level courses. Courses transferred from two-year colleges may not be used

as part of the 300-400 level requirements. Courses transferred from four-year accredited colleges retain their original numbers.

Although students are expected to complete the majority of their work at Marshall University, it is possible to complete some coursework at other institutions. Arrangement for such enrollment must be made in advance of enrollment. Students must obtain a permission form in the Student Center of Professional Education Services (SCOPES), Education Building 201.

Graduation Requirements

Graduation requirements in the College of Education and Professional Development differ by program area. General requirements for teacher education programs are listed. Individual program requirements are identified with the specific programs. **Students should monitor their programs of study carefully due to ongoing curricular changes in many programs.**

Teacher Education Programs

- Satisfactory completion of the Core Curriculum, and the culminating capstone experience (student teaching). Completion of all required courses in each specialization, and in professional education.
- Grade Point Averages of:
  a. 2.80 overall and on all courses attempted at Marshall University. Transfer credit may not be used to increase the Marshall University Grade Point Average except in the case of *D/F* Repeat Policy.
  b. 2.80 in each specialization.
  c. 3.0 in professional education.
- Completion of a minimum of 120 semester hours, including at least 56 hours at Marshall University.
- A grade of *C* or better in all specialization and professional education courses.
- Successful passage of all parts of the Praxis CORE Academic Skills for Educators Exam.
- Successful passage of the Praxis II Content Exam.
- Successful passage of Teacher Performance Assessment

Certificate Requirements (West Virginia)

In addition to the graduation requirements, the prospective educator must meet the following requirements for West Virginia certification:

1. Passing score on the applicable Praxis II: Subject Test for each teaching specialization. All students should complete the test(s) during their senior year.
2. Passing score on the applicable Praxis II: Principles of Learning and Teaching (PLT) tests.
3. Cumulative Grade Point Average of 2.7 or better for all courses attempted.
4. Grade Point Average of 2.7 or better in all subject specialization courses, with all courses passed with a *C* or better.
5. Grade Point Average of 2.7 or better in all professional education courses, with all courses passed with a *C* or better.
6. Grade Point Average of 2.7 or better in all courses attempted at Marshall University. Transfer credit may not be used to increase the Grade Point Average except in the case of *D/F* Repeat Policy.

Students seeking certification in states other than West Virginia should check with the appropriate state department of education.

Curricular Structure

The Bachelor of Arts degree in the College of Education and Professional Development includes the following components:

Code	Title	Credit Hours
University-Wide Requirements		
Core I Requirements		
FYS 100	First Yr Sem Critical Thinking	3
Select two CT-designated courses		6
Core II Requirements		
ENG 101	Beginning Composition	3
ENG 201	Advanced Composition	3
CMM 103	Fund Speech-Communication	3
Core II Fine Arts		3
Core II Humanities		3
Core II Math		3
Core II Physical/Natural Science		4
Core II Social Science		3
Additional Requirements		
Writing Intensive courses		6
International or Multicultural courses		3
College-Wide Requirements		
45 upper-division hours		45
Successful passage of all three parts of the Praxis CORE Academic Skills for Educators Exam		
Admission to Teacher Education		
Total Credit Hours		**88**

Faculty

Program Directors

Early Childhood Education: Dr. Ruthann Arneson (arneson1@marshall.edu)
Curriculum, Instruction and Foundations (Elementary/Secondary/Reading): Dr. Paula Lucas (whitep@marshall.edu)
Special Education: Dr. Debra Lockwood (conner4@marshall.edu)
Instructional Technology and Design: Dr. George Watson (watson@marshall.edu)

Professors
Backus, Isaacs, Klein, Lucas, Reed, Watson

Associate Professors
Allenger, Cartwright, Corrigan, Dunham, Lockwood, McFarland-Whisman

Assistant Professors
Arneson, Kinghorn, Melvin, Stringfellow

Curriculum, Instruction and Foundations

Contacts: Dr. Teresa Eagle, Dean; Dr. Thelma (Sissy) Isaacs, Associate Dean; Dr. Sandra Stroebel, Associate Dean
Website: http://www.marshall.edu/coepd (http://www.marshall.edu/coepd/)

Programs

B.A. in Elementary Education (http://catalog.marshall.edu/undergraduate/programs-az/education-professional-development/curriculum-instruction-foundations/elementary-education-ba/)

B.A. in Secondary Education (http://catalog.marshall.edu/undergraduate/programs-az/education-professional-development/curriculum-instruction-foundations/secondary-education-ba/)

See also B.A. in Early Childhood Education (p. 439).

Courses

- General Education Course

Curriculum & Instruction

CI 100 Critical Thinking in Educ (CT) **3 Credit hours**
An introduction to the critical thinking skills in education, an orientation of the teaching profession, and an overview of the historical, sociological, multicultural, and philosophical issues affecting schools and teachers. An introduction to the critical thinking skills in education, an orientation of the teaching profession, and an overview of the historical, sociological, multicultural, and philosophical issues affecting schools and teachers.
Attributes: Critical Thinking
Grade Mode: Normal Grading Mode

CI 101 Math for Elem Teachers I **3 Credit hours**
The study of the foundations of elementary mathematics including numeration systems, number theory, and consumer mathematics with emphasis on problem solving and teaching strategies.
Pre-req: MTH 130 with a minimum grade of D or MTH 130H with a minimum grade of D or MTH 127 with a minimum grade of D.
Grade Mode: Normal Grading Mode

CI 102 Intro Comp in Classroom **1 Credit hour**
The introduction of selection and evaluation techniques of computer courseware and hardware for classrooms K-12 with consideration for CAI, CMI and specific skills for K-12 students. The introduction of selection and evaluation techniques of computer courseware and hardware for classrooms K-12 with consideration for CAI, CMI and specific skills for K-12 students.
Grade Mode: Normal Grading Mode

CI 201 Math for Elem Teachers II **3 Credit hours**
Study of elementary mathematics including structure of the real number system, statistics, probability, informal and transformational geometry, and basic algebraic operations with emphasis on problem solving and teaching strategies. Study of elementary mathematics including structure of the real number system, statistics, probability, informal and transformational geometry, and basic algebraic operations with emphasis on problem solving and teaching strategies.
Pre-req: CI 101 with a minimum grade of C and (MTH 127 with a minimum grade of D or MTH 130 with a minimum grade of D).
Grade Mode: Normal Grading Mode

CI 248 Intro to Science Elem Ed **4 Credit hours**
Introduction to teaching science in elementary schools emphasizing inquiry-based science and engineering practices utilizing effective research-based teaching strategies including seminars, discussions and investigations.
Pre-req: MTH 127 with a minimum grade of D or MTH 130 with a minimum grade of D.
Grade Mode: Normal Grading Mode

CI 280 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

CI 281 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

CI 282 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

CI 283 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

CI 298 Itv **1-4 Credit hours**
A course based upon an Instructional Television Series broadcast by public television. The student is responsible for viewing the series on the air and satisfying all course requirements announced by the division. A course based upon an Instructional Television Series broadcast by public television. The student is responsible for viewing the series on the air and satisfying all course requirements announced by the division.
Grade Mode: Normal Grading Mode

CI 301 Teach Elem/Middle Mathematics **3 Credit hours**
This course is an investigation of techniques and approaches to helping children learn mathematics with special emphasis on the use of manipulative materials in a laboratory setting.
Pre-req: CI 201 with a minimum grade of C and Admitted to Teacher ED with a score of 4.
Grade Mode: Normal Grading Mode

CI 321 ECE Curr and Methods **3 Credit hours**
Study of factors shaping curriculum and exploration and assessment of appropriate curriculum for young children in transition from pre-operational to concrete operational stages of development. Field experience included. Study of factors shaping curriculum and exploration and assessment of appropriate curriculum for young children in transition from pre-operational to concrete operational stages of development. Field experience included.
Pre-req: Admitted to Teacher ED with a score of 4.
Grade Mode: Normal Grading Mode

CI 342 Lit & Lang Arts Methods **3 Credit hours**
A study of literary genres' characteristics and implementation within the elementary classroom, with emphasis on methods of presentation and a review of English grammar and language.
Grade Mode: Normal Grading Mode

CI 343 The Process of Reading Part I **3 Credit hours**
Study of modern techniques and practices in the teaching and assessment of reading and language arts: Part 1
Pre-req: CI 342 with a minimum grade of C.
Grade Mode: Normal Grading Mode

CI 345 Crit Read Writ & Think **3 Credit hours**
This course examines strategies for learning from text, studying different types of textual material, monitoring learning, and integrating oral and written discourse. This course examines strategies for learning from text, studying different types of textual material, monitoring learning, and integrating oral and written discourse.
Pre-req: Admitted to Teacher ED with a score of 4.
Grade Mode: Normal Grading Mode

CI 348 Phy Sci & Engr for Elem Ed **4 Credit hours**
General elementary education course with emphasis on Next Generation Science standards, methods, and content for Physical Science and Engineering practices.
Pre-req: MTH 130 with a minimum grade of D or MTH 127 with a minimum grade of D.
Grade Mode: Normal Grading Mode

CI 350 Inst Tech & Computing **3 Credit hours**
Critical examination and skill development using commercial, non-commercial, and computer generated media. Emphasis will be placed on its application to teaching and learning.
Grade Mode: Normal Grading Mode

CI 360 Social Studies Methods Elem **3 Credit hours**
An introduction to materials and methods for teaching social studies in the elementary school including goals, processes, strategies, and evaluation. An introduction to materials and methods for teaching social studies in the elementary school - including goals, pro- cesses, strategies, and evaluation.
Pre-req: Admitted to Teacher ED with a score of 4.
Grade Mode: Normal Grading Mode

CI 367 Org for Inst in ECE **3 Credit hours**
An overview of the development of early childhood education related research, pre-primary program models, elementary school organizational patterns, program planning and techniques of working with parents. An overview of the development of early childhood educa- tion related research, pre-primary program models, elementary school organizational patterns, program planning and techniques of working with parents.
Grade Mode: Normal Grading Mode

CI 401 Middle Childhood Curric **3 Credit hours**
Study of procedures for creating a functional middle childhood curriculum with emphasis upon the needs of transecents. Study of procedures for creating a functional middle child- hood curriculum with emphasis upon the needs of transecents.
Pre-req: Admitted to Teacher ED with a score of 4.
Grade Mode: Normal Grading Mode

CI 402 Teach Mid Child Learners **3 Credit hours**
The study of methods appropriate for teaching in the middle childhood grades and the production and utilization of materials and resources based upon the needs of middle childhood learners.
Pre-req: Admitted to Teacher ED with a score of 4.
Grade Mode: Normal Grading Mode

CI 403 Meth Teach Mid Child Grd **3 Credit hours**
Study of methods appropriate for teaching in the middle childhood grades, and production and utilization of materials and resources in these grades. Middle school clinical experience is required.
Pre-req: Admitted to Teacher ED with a score of 4 and CI 401 with a minimum grade of C.
Grade Mode: Normal Grading Mode

CI 405 Student Teaching-Elem Ed **4-12 Credit hours**
All-day teaching under supervision in cooperating schools; periodic seminars, conducted by University faculty, accompany student teaching. All-day teaching under supervision in cooperating schools; periodic seminars, conducted by University faculty, accompany student teaching.
Attributes: Capstone Course
Grade Mode: Credit/No Credit Grade Only

CI 406 Student Teaching II Elem Ed **4-6 Credit hours**
Supervised student teaching (4-6 hrs). All-day teaching under supervision in cooperating schools. Periodic semiars conducted by university faculty accompany student teaching. Prerequisites: Methods and permission.
Attributes: Capstone Course
Grade Mode: Credit/No Credit Grade Only

CI 410 Stu Teach-Early Childhood **4-6 Credit hours**
All-day kindergarten teaching under supervision in cooperating schools; periodic seminars, conducted by University faculty, accompany student teaching. All-day kindergarten teaching under supervision in co- operating schools; periodic seminars, conducted by University faculty, accompany student teaching.
Attributes: Capstone Course
Grade Mode: Credit/No Credit Grade Only

CI 415 Int Meth & Mat: Sec Ed **3 Credit hours**
General secondary/middle school course with emphasis on instructional standards and objectives, methods, and materials of the disciplines. A clinical experience provides observation and teaching. General secondary/middle school course with emphasis on instructional standards and objectives, methods, and materials of the disciplines. A clinical experience provides observation and teaching.
Pre-req: Admitted to Teacher ED with a score of 5.
Co-req: CI 470
Grade Mode: Normal Grading Mode

CI 427 Introduction To Autism **3 Credit hours**
This is a lecture-discussion course designed to survey current autism definitions, rates of incidence, conceptual models, and educational designs relating to autistic children, youth, and adults. This is a lecture-discussion course designed to survey current autism definitions, rates of incidence, conceptual models, and educational designs relating to autistic children, youth, and adults.
Grade Mode: Normal Grading Mode

CI 442 Instr & Clrm Mgt in Elem Ed **3 Credit hours**
This course allows elementary education students to critically examine a variety of classroom management strategies and educational issues that impact instruction. PR: Full admission to the Teacher Education Program This course allows elementary education students to critically examine a variety of classroom management strategies and educational issues that impact instruction. PR: Full admission to the Teacher Education Program
Pre-req: Admitted to Teacher ED with a score of 4.
Grade Mode: Normal Grading Mode

CI 446 The Process of Reading Part II **3 Credit hours**
Study of modern techniques and practices in the teaching and assessment of reading and language arts: Part 2
Pre-req: CI 342 with a minimum grade of C.
Grade Mode: Normal Grading Mode

CI 447 Inte Read/Lang Arts: Elem Edu **3 Credit hours**
General K-6 course with emphasis on instructional standards and objectives, methods, and materials for Reading, Language Arts and Social Studies. General K-6 course with emphasis on instructional standards and objectives, methods, and materials for Reading, Language Arts and Social Studies.
Pre-req: Admitted to Teacher ED with a score of 5 and CI 343 with a minimum grade of C and CI 446 with a minimum grade of C.
Co-req: CI 471
Grade Mode: Normal Grading Mode

CI 448 Science Methods: Elem Edu **3 Credit hours**
General K-6 course with emphasis on instructional standards and objectives, methods and materials for mathematics and science. General K-6 course with emphasis on instructional standards and objectives, methods and materials for mathematics and science.
Pre-req: CI 201 with a minimum grade of C and Admitted to Teacher ED with a score of 4 and BSC 105 with a minimum grade of C and CI 248 with a minimum grade of C.
Grade Mode: Normal Grading Mode

CI 449 Instr & Clarm Mgt Sec Ed **3 Credit hours**
Classroom management with emphasis on practical techniques for dealing with management problems in secondary and middle school settings. Classroom management with emphasis on practical techniques for dealing with management problems in secondary and middle school settings.
Pre-req: Admitted to Teacher ED with a score of 4.
Grade Mode: Normal Grading Mode

CI 450 Stu Teach Secondary Ed **4-12 Credit hours**
All-day teaching under supervision in cooperating schools; periodic seminars conducted by University faculty accompany student teaching. All-day teaching under supervision in cooperating schools; periodic seminars conducted by University faculty accompany student teaching.
Attributes: Capstone Course
Grade Mode: Credit/No Credit Grade Only

CI 452 Mce: Supervised Stu Teach **4-6 Credit hours**
All-day student teaching in cooperating middle schools; periodic seminars conducted by University faculty accompany student teaching. All-day student teaching in cooperating middle schools; periodic seminars conducted by University faculty accompany student teaching.
Attributes: Capstone Course
Grade Mode: Credit/No Credit Grade Only

CI 455 Student Teaching II Sec Ed **4-6 Credit hours**
Supervised student teaching (4-6 hrs). All-day teaching under supervision in cooperating schools. Periodic seminars conducted by university faculty accompany student teaching. Prerequisites: Methods and permission.
Attributes: Capstone Course
Grade Mode: Credit/No Credit Grade Only

CI 459 Multicult Influence in Ed **3 Credit hours**
Multicultural education with an emphasis on methods and materials for teaching students from diverse cultural backgrounds. Multicultural education with an emphasis on methods and materials for teaching students from diverse cultural backgrounds.
Attributes: Multicultural
Grade Mode: Normal Grading Mode

CI 460 Staff Development **1-3 Credit hours**
Attributes: Not Degree Applicable
Grade Mode: Credit/No Credit Grade Only

CI 461 Staff Development **1-3 Credit hours**
Attributes: Not Degree Applicable
Grade Mode: Credit/No Credit Grade Only

CI 462 Staff Development **1-3 Credit hours**
Attributes: Not Degree Applicable
Grade Mode: Credit/No Credit Grade Only

CI 463 Staff Development **1-3 Credit hours**
Attributes: Not Degree Applicable
Grade Mode: Credit/No Credit Grade Only

CI 464 Staff Development **1-3 Credit hours**
Attributes: Not Degree Applicable
Grade Mode: Credit/No Credit Grade Only

CI 470 Level II Clinical Exp **0 Credit hours**
A Level II Clinical Experience teaching in an elementary or secondary public school. An opportunity to put theory into classroom practice. A Level II Clinical Experience teaching in an elementary or secondary public school. An opportunity to put theory into classroom practice.
Pre-req: Admitted to Teacher ED with a score of 5.
Co-req: CI 415
Grade Mode: Credit/No Credit Grade Only

CI 471 Level II Clinical Exp **0 Credit hours**
A Level II Clinical Experience teaching in an elementary school. An opportunity to put theory into classroom practice. A Level II Clinical Experience teaching in an elementary school. An opportunity to put theory into classroom practice.
Pre-req: Admitted to Teacher ED with a score of 5.
Co-req: CI 447
Grade Mode: Credit/No Credit Grade Only

CI 472 Level II Clinical Exp **0 Credit hours**
A Level II Clinical Experience teaching in an elementary or secondary public school. An opportunity to put theory into classroom practice. A Level II Clinical Experience teaching in an elementary or secondary public school. An opportunity to put theory into classroom practice.
Pre-req: Admitted to Teacher ED with a score of 5.
Grade Mode: Credit/No Credit Grade Only

CI 480 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

CI 481 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

CI 482 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

CI 483 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

CI 485 Independent Study **1-4 Credit hours**
Grade Mode: Normal Grading Mode

CI 486 Independent Study **1-4 Credit hours**
Grade Mode: Normal Grading Mode

CI 487 Independent Study **1-4 Credit hours**
Grade Mode: Normal Grading Mode

CI 488 Independent Study **1-4 Credit hours**
Grade Mode: Normal Grading Mode

Curriculum Instruction Special Education

CISP 101 American Sign Language I **3 Credit hours**
This is the first of 4 courses in American Sign Language. This course emphasizes the learning of basic survival conversational signing skills, including use of all ASL grammatical structures.
Grade Mode: Normal Grading Mode

CISP 102 American Sign Language II **3 Credit hours**
This is the second of 4 courses in American Sign Language. This course emphasizes the learning of intermediate conversational signing skills, including use of all ASL grammatical structures.
Pre-req: CISP 101 with a minimum grade of D.
Grade Mode: Normal Grading Mode

CISP 203 American Sign Language III **3 Credit hours**
This is the third of 4 courses in American Sign Language. This course emphasizes the learning of advanced conversational signing skills, including use of all ASL grammatical structures.
Pre-req: CISP 101 with a minimum grade of D and CISP 102 with a minimum grade of D.
Grade Mode: Normal Grading Mode

CISP 204 American Sign Language IV **3 Credit hours**
This is the fourth of 4 courses in American Sign Language. This course emphasizes the learning of complex conversational signing skills, including use of all ASL grammatical structures.
Pre-req: CISP 101 with a minimum grade of D and CISP 102 with a minimum grade of D and CISP 203 with a minimum grade of D.
Grade Mode: Normal Grading Mode

CISP 320 Survey Exceptional Child **3 Credit hours**
An introduction to the study of children who deviate from the average in mental, physical, and emotional characteristics, including a study of the characteristics of such children and the adaptation of educational procedures to their abilities and disabilities.
Pre-req: CISP 420 (may be taken concurrently) with a minimum grade of C.
Concurrent PR: CISP 420
Grade Mode: Normal Grading Mode

CISP 420 Survey Except Child II **3 Credit hours**
Examination of procedures needed for implementation of the Resource Room model for mildly handicapped children. The course includes a review of the Mainstreaming movement, interpersonal relations, and skills necessary for maintaining the resource room.
Pre-req: CISP 320 (may be taken concurrently) with a minimum grade of C.
Concurrent PR: CISP 320
Grade Mode: Normal Grading Mode

CISP 421 Child with Exceptionalities **3 Credit hours**
Behavioral characteristics of children with exceptional development, dynamics of family- community interaction, and attitudes towards exceptional conditions. Implications for amelioration and educational planning.
Grade Mode: Normal Grading Mode

CISP 422 Differentiate Instruction **3 Credit hours**
Research-based strategies for providing differentiated instruction to students with diverse learning, social, and behavioral needs who are being educated in inclusive settings.
Pre-req: CISP 421 with a minimum grade of C.
Grade Mode: Normal Grading Mode

CISP 423 Sp Ed Learning Disability **3 Credit hours**
Grade Mode: Normal Grading Mode

CISP 424 Sp Ed Emotional Disturb **3 Credit hours**
Grade Mode: Normal Grading Mode

CISP 427 Introduction to Autism **3 Credit hours**
This course is designed to survey current issues in education and the treatment of students with autism spectrum disorder (ASD).
Grade Mode: Normal Grading Mode

CISP 428 Special Needs in Erly Child Ed **3 Credit hours**
Emphasis will be given to enhancing the success of diverse learners through intervention strategies, family involvement and interdisciplinary service delivery. Emphasis will be given to enhancing the success of diverse learners through intervention strategies, family involvement and interdisciplinary service delivery.
Pre-req: Admitted to Teacher ED with a score of 4 and CISP 421 with a minimum grade of C or (CISP 320 with a minimum grade of C and CISP 420 with a minimum grade of C).
Grade Mode: Normal Grading Mode

CISP 429 Intro Developmental Disability **3 Credit hours**
Introduction to the characteristics and needs of young children with developmental disabilities addressing the physical, neurological, health , and environmental problems that impact atypical growth and development (PR: CISP 320, CR: Field Experience)
Pre-req: Admitted to Teacher ED with a score of 4 and CISP 420 with a minimum grade of C.
Grade Mode: Normal Grading Mode

CISP 433 Intro Intellect Disabilities **3 Credit hours**
Characteristics and needs of individuals with intellectual disabilites. Current research, etiologic factors and the impact of intellectual disabilities on education are emphasized. Includes a field experience. (PR: CISP 320)
Pre-req: Admitted to Teacher ED with a score of 4 and CISP 420.
Grade Mode: Normal Grading Mode

CISP 434 Sp Ed St Tch Phys Handicap **4-6 Credit hours**
Grade Mode: Credit/No Credit Grade Only

CISP 435 Gen Spec Ed Programming **3 Credit hours**
Pre-req: Admitted to Teacher ED with a score of 4 and CISP 420.
Grade Mode: Normal Grading Mode

CISP 438 Char/Behav Mild/Mod Disability **3 Credit hours**
An introduction to positive behavior supports at the school, classroom, and individual level to improve student behavior and academic engagement.
Pre-req: CISP 320 and CISP 420.
Grade Mode: Normal Grading Mode

CISP 439 Assessment in Sp Ed **3 Credit hours**
Pre-req: Admitted to Teacher ED with a score of 4 and CISP 420.
Grade Mode: Normal Grading Mode

CISP 440 Stu Teach Multicategorical **4-6 Credit hours**
Attributes: Capstone Course
Grade Mode: Credit/No Credit Grade Only

CISP 445 Intervent Preschool Sp Ed **3 Credit hours**
Curriculum development and methodology used to teach young children with special needs. Integration, program development, management, material and equipment adaptation are emphasized.
Pre-req: CISP 428 with a minimum grade of D.
Grade Mode: Normal Grading Mode

CISP 453 Curr Methods Mild to Moderate **3 Credit hours**
Principals and current trends in curriculum development and teaching methodology for individuals with mild to moderate disabilities are reviewed and evaluated (PR: CISP 320, CISP 420)
Pre-req: Admitted to Teacher ED with a score of 4 and CISP 320.
Grade Mode: Normal Grading Mode

CISP 454 Families of Except Students **3 Credit hours**
Principles and information designed to give the student an understanding of the needs and rights of families of exceptional children and techniques to involve families successfully in their children's education.
Grade Mode: Normal Grading Mode

CISP 455 Field Exp Preschool Sp Ed **3 Credit hours**
Supervised participation and directed teaching activities in a preschool special education program.
Pre-req: CISP 445 with a minimum grade of C.
Grade Mode: Normal Grading Mode

CISP 461 Staff Development **1-4 Credit hours**
Attributes: Not Degree Applicable
Grade Mode: Credit/No Credit Grade Only

CISP 462 Staff Development **1-4 Credit hours**
Attributes: Not Degree Applicable
Grade Mode: Credit/No Credit Grade Only

CISP 480 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

Educational Foundations

EDF 201 Ed Psych Developing Learner **3 Credit hours**
A study of the psychological principles for learning and teaching based on children's emotional, social, cognitive, and physical development.
Grade Mode: Normal Grading Mode

EDF 218 Child/Adol Dev in Schools **3 Credit hours**
A basic course in the study of children's emotional, social, mental, and physical development. Field experience required. A basic course in the study of children's emotional, social, mental, and physical development. Field experience required.
Co-req: EDF 270
Grade Mode: Normal Grading Mode

EDF 270 Level I Clinical Exp **0 Credit hours**
A public school Clinical Experience in an elementary school. An opportunity to work with faculty, staff, and students in a teaching/learning environment. A public school Clinical Experience in an elementary school. An opportunity to work with faculty, staff, and students in a teaching/learning environment.
Grade Mode: Credit/No Credit Grade Only

EDF 271 Level I Clinical Exp **0 Credit hours**
A public school Clinical Experience in an elementary public school. An opportunity to work with faculty, staff, and students in a teaching/learning environment. A public school Clinical Experience in an elementary public school. An opportunity to work with faculty, staff, and students in a teaching/learning environment.
Co-req: EDF 218
Grade Mode: Normal Grading Mode

EDF 272 Level I Clinical Exp **0 Credit hours**
A public school Clinical Experience in an elementary public school. An opportunity to work with faculty, staff, and students in a teaching/learning environment. A public school Clinical Experience in an elementary public school. An opportunity to work with faculty, staff, and students in a teaching/learning environment.
Co-req: EDF 218
Grade Mode: Normal Grading Mode

EDF 280 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

EDF 281 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

EDF 282 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

EDF 283 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

EDF 319 Applications Learning Theory **3 Credit hours**
A study of the psychological principles which are the foundation for learning and teaching. A study of the psychological principles which are the foundation for learning and teaching.
Pre-req: Admitted to Teacher ED with a score of 4.
Grade Mode: Normal Grading Mode

EDF 406 Foundations of Education **3 Credit hours**
A survey of the historical, philosophical and sociological foundations of American education with emphasis upon current educational problems and issues. A survey of the historical, philosophical and sociological foundations of American education with emphasis upon current educational problems and issues.
Pre-req: EDF 319.
Grade Mode: Normal Grading Mode

EDF 417 Statistical Methods **3 Credit hours**
A foundation course in descriptive and inferential statistics as applied in education and the social sciences. A foundation course in descriptive and inferential statistics as applied in education and the social sciences.
Attributes: Statistics
Grade Mode: Normal Grading Mode

EDF 435 Classroom Assessment **3 Credit hours**
History, philosophy and elementary statistical methods for testing, measuring and evaluating pupil behavior are studied. History, philosophy and elementary statistical methods for testing, measuring and evaluating pupil behavior are studied.
Pre-req: Admitted to Teacher ED with a score of 4 and EDF 201 with a minimum grade of C.
Grade Mode: Normal Grading Mode

EDF 475 Schools in a Diverse Society **3 Credit hours**
Study of social, historical and philosophical foundations of U.S. schooling. Study of social, historical and philosophical foundations of U.S. schooling.
Pre-req: Admitted to Teacher ED with a score of 4.
Grade Mode: Normal Grading Mode

EDF 480 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

EDF 481 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

EDF 482 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

EDF 483 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

EDF 485 Independent Study **1-4 Credit hours**
Grade Mode: Normal Grading Mode

EDF 486 Independent Study **1-4 Credit hours**
Grade Mode: Normal Grading Mode

EDF 487 Independent Study **1-4 Credit hours**
Grade Mode: Normal Grading Mode

EDF 488 Independent Study **1-4 Credit hours**
Grade Mode: Normal Grading Mode

Areas of Emphasis

- Art Education PreK-Adult, B.A. (p. 416)
- Biological Science Education 9-Adult, B.A. (p. 418)
- Chemistry Education 9-Adult, B.A. (p. 420)
- Elementary Education K-6 Comprehensive, B.A. (p. 422)
- English Education 5-9, B.A. (Second Specialization only) (p. 423)
- English Education 5-Adult, B.A. (p. 424)
- General Science Education 5-9, B.A. (Second Specialization only) (p. 426)
- General Science Education 5-Adult, B.A. (p. 426)
- Japanese Education PreK-Adult, B.A. (p. 428)
- Mathematics Education 5-9, B.A. (Second Specialization only) (p. 428)
- Mathematics Education 5-Adult, B.A. (p. 429)
- Music Education PreK-Adult, B.A. (p. 430)
- Physics Education 9-Adult Comprehensive, B.A. (p. 433)
- Social Studies Education 5-9, B.A. (Second Specialization only) (p. 434)
- Social Studies Education 5-Adult, B.A. (p. 435)
- Spanish Education 5-Adult, B.A. (p. 437)
- Special Education Multi-Categorical 5-Adult, B.A. (Second Specialization only) (p. 437)
- Special Education Multi-Categorical K-6, B.A. (Second Specialization only) (p. 437)
- Wellness Education PreK-Adult, B.A. (p. 437)

Art Education PreK-Adult, B.A.

- General Education Course

- Milestone course: a key success marker for your major. See your advisor to discuss the importance of this course in your plan of study.

Major

The Core Curriculum is designed to foster critical thinking skills and introduce students to basic domains of thinking that transcend disciplines. The Core applies to all majors. Information on specific classes in the Core can be found at https://www.marshall.edu/gened/.

Code	Title	Credit Hours
Core Curriculum		
Core 1: Critical Thinking		
FYS 100	First Yr Sem Critical Thinking	3
MTH 121	Concepts and Applications (CT)	3
Critical Thinking Course		3
Core 2		
ENG 101	Beginning Composition	3
ENG 201	Advanced Composition	3
CMM 103	Fund Speech-Communication	3
MTH 121	Concepts and Applications (CT)	3
Core II Natural Science		4
ART 112	Intro To Visual Art	3
Core II Social Science		3
Core II Humanities		3
Additional University Requirements		
Writing Intensive		3
Writing Intensive		3
Multicultural or International		3
ART 499	Senior Capstone Exhibition BA	1
Teaching Specialization		
ART 112	Intro To Visual Art	3
ART 201	History of Art	3
ART 202	History of Art	3
ART 214	Foundations: Grid/Chroma	3
ART 215	Foundations: Form/Space	3
ART 217	Foundations: Record/Layer	3
ART 218	Foundations: Site/Matrix	3
ART 219	Foundations: Frame/Time	3
ART 299	Foundations Review: BA	1
ART 301	Printmaking Processes	3
ART 305	Ceramics	3
ART 307	Sculpture	3
ART 310	Art Education: Elementary	3
ART 315	Intro to Photography	3
ART 340	Art Education: Secondary	3
ART 350	Watercolor Painting	3
or ART 353	Beginning Painting I	
ART 389	20th Century Art	3
or ART 464	History of Modern Design	
ART 460	History & Phil of Art Ed	3
ART History, Studio, or Education		3
ART History, Studio, or Education		3
ART 499	Senior Capstone Exhibition BA (C)	1
Professional Education Core		
EDF 201	Ed Psych Developing Learner	3
EDF 270	Level I Clinical Exp	0
CISP 421	Child with Exceptionalities	3
EDF 475	Schools in a Diverse Society	3
CI 345	Crit Read Writ & Think	3
CI 402	Teach Mid Child Learners	3
CI 449	Instr & Clarm Mgt Sec Ed	3
CISP 422	Differentiate Instruction	3
ART 468	Secondary Ed: Teaching Art	3

CI 470	Level II Clinical Exp	0
CI 450	Stu Teach Secondary Ed (Capstone)	12

Major Information

Admission Requirements for ADMI 4

1. Grade Point Average of 2.80 or higher (both MU and overall),
2. EDF 201 Ed Psych Developing Learner (grade "*C*" or better) and EDF 270 Level I Clinical Exp (credit),
3. Passing scores on the PRAXIS Core exam – all 3 areas or exemption
4. Portfolio in LiveText which includes:
   - Self-Assessment,
   - Writing Sample and
   - Three Recommendations,
5. 21 ACT composite score,
6. MU students: Completion of 26 credit hours,
7. Transfer students: Completion of 12 Marshall University credit hours.

Admission Requirements for ADMI 5

1. 12 hours of completed Professional Education Core courses,
2. 2.8 GPA overall, at MU, and in Teaching Specialization,
3. 3.0 GPA in Professional Education Core

Admission Requirements for Student Teaching

1. At least 90% of Teaching Specialization courses completed,
2. Minimum of 100 credit hours completed,
3. 2.8 GPA overall, at MU, and in Teaching Specialization,
4. 3.0 GPA in Professional Education Core,

- Many courses require clinical experience in public school during normal school hours. Schedule open time accordingly.
- **Students should monitor their program of study carefully due to ongoing curricular changes.**
- **All** coursework in Teaching Specialization and Professional Education Core must be completed with a grade of *C* or better.
- West Virginia law mandates that all persons entering a school or having contact with students must have completed a background check and have not been found on the sexual offender registry prior to entering a school. Each county and school can also use the results of that background check as a basis for admitting or denying admittance. It is the procedure of the Marshall University College of Education and Professional Development that every student will obtain a background check prior to being placed in a school setting.

- General Education Course

- Milestone course: a key success marker for your major. See your advisor to discuss the importance of this course in your plan of study.

Four Year Plan

The College of Education and Professional Development has the distinction of being the oldest part of Marshall University. The CIF (Curriculum, Instruction, & Foundations) program includes elementary, secondary, educational foundations, and educational computing for pre-service teachers. The secondary programs are designed for those wanting to teach content to middle school and/or high school students. The educational foundations and computing courses are designed for those entering the education field. Students receive broad content knowledge in the core academic area of choice as well as in the art and science of teaching children.

Course	Title	Credit Hours
First Year		
First Semester		
ART 112	Intro To Visual Art	3
MTH 121	Concepts and Applications (CT)	3
CMM 103	Fund Speech-Communication	3
ENG 101	Beginning Composition	3
FYS 100	First Yr Sem Critical Thinking	3
UNI 100	Freshman First Class	1
	Credit Hours	**16**
Second Semester		
ART 201	History of Art	3
ART 214	Foundations: Grid/Chroma	3
ART 217	Foundations: Record/Layer	3
ENG 201	Advanced Composition	3
Core II Social Science (CT, M/I)		3
	Credit Hours	**15**
Second Year		
First Semester		
ART 202	History of Art	3
ART 215	Foundations: Form/Space	3
ART 310	Art Education: Elementary	3
EDF 201	Ed Psych Developing Learner	3
EDF 270	Level I Clinical Exp	0
Core II Natural Science		4
	Credit Hours	**16**
Second Semester		
ART 218	Foundations: Site/Matrix	3
ART 219	Foundations: Frame/Time	3
ART 315	Intro to Photography	3
CISP 421	Child with Exceptionalities	3
Core II Humanities (WI, 200-level)		3
ART 350 or ART 353	Watercolor Painting or Beginning Painting I	3
	Credit Hours	**18**
Third Year		
First Semester		
ART 299	Foundations Review: BA	0
ART 301	Printmaking Processes [1]	3
ART 305	Ceramics [2]	3
CI 345	Crit Read Writ & Think	3
ART History, Studio, or Education		3
Writing Intensive		3
	Credit Hours	**15**
Second Semester		
ART 307	Sculpture	3
ART 340	Art Education: Secondary [3]	3
CI 449	Instr & Clarm Mgt Sec Ed	3

CISP 422	Differentiate Instruction	3
ART History, Studio, or Education		3
	Credit Hours	**15**
Fourth Year		
First Semester		
ART 460	History & Phil of Art Ed	3
ART 468	Secondary Ed: Teaching Art	3
ART 499	Senior Capstone Exhibition BA	1
CI 402	Teach Mid Child Learners	3
EDF 475	Schools in a Diverse Society	3
ART 389 or ART 464	20th Century Art or History of Modern Design	3
CI 470	Level II Clinical Exp	0
	Credit Hours	**16**
Second Semester		
CI 450	Stu Teach Secondary Ed (Capstone)	12
	Credit Hours	**12**
	Total Credit Hours	**123**

[1] Prerequisite ART 217 Foundations: Record/Layer
[2] Prerequisite ART 215 Foundations: Form/Space
[3] Prerequisite:ART 310 Art Education: Elementary

Biological Science Education 9-Adult, B.A.

- General Education Course

- Milestone course: a key success marker for your major. See your advisor to discuss the importance of this course in your plan of study.

Code	Title	Credit Hours
Core Curriculum		
Core 1: Critical Thinking		
FYS 100	First Yr Sem Critical Thinking	3
Critical Thinking Course		3
Critical Thinking Course		3
Core 2		
ENG 101	Beginning Composition	3
ENG 201	Advanced Composition	3
CMM 103	Fund Speech-Communication	3
MTH 127	College Algebra-Expanded	5
or MTH 130	College Algebra	
BSC 120	Principles of Biology I	3
BSC 120L	Principles of Biology I Lab	1
Core II Humanities		3
Core II Fine Arts		3
Core II Social Science		3
Additional University Requirements		
Writing Intensive		3
Writing Intensive		3
Multicultural or International		3
CI 450	Stu Teach Secondary Ed (Capstone)	4-12
Teaching Specialization		
MTH 122	Plane Trigonometry	3
MTH 127	College Algebra-Expanded	5
or MTH 130	College Algebra	
BSC 120	Principles of Biology I	3
BSC 120L	Principles of Biology I Lab	1
BSC 121	Principles of Biology II	3
BSC 121L	Prin of Biology II Lab	1
BSC 227	Human Anatomy	3
BSC 227L	Human Anatomy Lab	1
Select one of the following:		3-4
BSC 302	Principles of Microbiology	
BSC 430	Plant Ecology	
BSC 460	Conservation Biology	
BSC 312	Invertebrate Zoology	4
BSC 320	Principles of Ecology	4
BSC 322	Principles Cell Biology	4
BSC 324	Principles of Genetics	4
BSC 416	Plant Taxonomy	4
CHM 211	Principles of Chemistry I	3
CHM 217	Principles of Chem Lab I	2
CHM 212	Principles Chemistry II	3
CHM 218	Principles of Chem Lab II	2
GLY 200	The Dynamic Earth	3
GLY 210L	Earth Materials Lab	1
PHY 201	College Physics I	3
PHY 202	General Physics I Laboratory	1
PS 325	Dev Scientific Thought	4
BSC 491	Capstone Experience	2
Professional Education Core		
EDF 201	Ed Psych Developing Learner	3
EDF 270	Level I Clinical Exp	0
CISP 421	Child with Exceptionalities	3
EDF 435	Classroom Assessment	3
EDF 475	Schools in a Diverse Society	3
CI 345	Crit Read Writ & Think	3
CI 449	Instr & Clarm Mgt Sec Ed	3
CISP 422	Differentiate Instruction	3
CI 415	Int Meth & Mat: Sec Ed	3
CI 470	Level II Clinical Exp	0
CI 450	Stu Teach Secondary Ed (Capstone)	4-12

Major Information

Admission Requirements for ADMI 4

1. Grade Point Average of 2.80 or higher (both MU and overall),
2. EDF 201 Ed Psych Developing Learner (grade "C" or better) and EDF 270 Level I Clinical Exp (credit),
3. Passing scores on the PRAXIS Core exam – all 3 areas OR exemption,
4. Portfolio in LiveText which includes:

- Self-Assessment,
- Writing Sample and
- Three Recommendations,

5. 21 ACT composite score,
6. MU students: Completion of 26 credit hours,
7. Transfer students: Completion of 12 Marshall University credit hours.

Admission Requirements for ADMI 5

1. 12 hours of completed Professional Education Core courses,
2. 2.8 GPA overall, at MU, and in Teaching Specialization,
3. 3.0 GPA in Professional Education Core

Admission Requirements for Student Teaching

1. At least 90% of Teaching Specialization courses completed,
2. Minimum of 100 credit hours completed,
3. 2.8 GPA overall, at MU, and in Teaching Specialization,
4. 3.0 GPA in Professional Education Core,
5. Completion of all Professional Education Core Courses

- Many courses require clinical experience in public school during normal school hours. Schedule open time accordingly.
- **Students should monitor their program of study carefully due to ongoing curricular changes.**
- **All** coursework in Teaching Specialization and Professional Education Core must be completed with a grade of *C* or better.
- West Virginia law mandates that all persons entering a school or having contact with students must have completed a background check and have not been found on the sexual offender registry prior to entering a school. Each county and school can also use the results of that background check as a basis for admitting or denying admittance. It is the procedure of the Marshall University College of Education and Professional Development that every student will obtain a background check prior to being placed in a school setting.

- General Education Course

- Milestone course: a key success marker for your major. See your advisor to discuss the importance of this course in your plan of study.

Four Year Plan

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Course	Title	Credit Hours
First Year		
First Semester		
Core II Fine Arts		3
MTH 127 or MTH 130	College Algebra-Expanded or College Algebra	3-5
CMM 103	Fund Speech-Communication	3
ENG 101	Beginning Composition	3
FYS 100	First Yr Sem Critical Thinking	3
UNI 100	Freshman First Class	1
	Credit Hours	**16-18**
Second Semester		
BSC 120	Principles of Biology I	3
BSC 120L	Principles of Biology I Lab	1
GLY 200	The Dynamic Earth	3
GLY 210L	Earth Materials Lab	1
MTH 122	Plane Trigonometry	3
ENG 201	Advanced Composition	3
Critical Thinking (WI)		3
	Credit Hours	**17**
Second Year		
First Semester		
BSC 121	Principles of Biology II	3
BSC 121L	Prin of Biology II Lab	1
CHM 211	Principles of Chemistry I	3
CHM 217	Principles of Chem Lab I	2
EDF 201	Ed Psych Developing Learner	3
EDF 270	Level I Clinical Exp	0
Core II Social Science (CT, M/I)		3
	Credit Hours	**15**
Second Semester		
BSC 227	Human Anatomy	3
BSC 227L	Human Anatomy Lab	1
BSC 320	Principles of Ecology	4
CHM 212	Principles Chemistry II	3
CHM 218	Principles of Chem Lab II	2
Core II Humanities (WI)		3
	Credit Hours	**16**
Third Year		
First Semester		
BSC 322	Principles Cell Biology	4
CI 345	Crit Read Writ & Think	3
CISP 421	Child with Exceptionalities	3
PHY 201	College Physics I	3
PHY 202	General Physics I Laboratory	1
	Credit Hours	**14**
Second Semester		
BSC 324	Principles of Genetics	4
CI 449	Instr & Clarm Mgt Sec Ed	3
CISP 422	Differentiate Instruction	3
EDF 435	Classroom Assessment	3
PS 325	Dev Scientific Thought	4
	Credit Hours	**17**

Fourth Year		
First Semester		
BSC 312	Invertebrate Zoology	4
BSC 416	Plant Taxonomy	4
CI 415	Int Meth & Mat: Sec Ed	3
CI 470	Level II Clinical Exp	0
Select one of the following:		3-4
BSC 302	Principles of Microbiology	
BSC 430	Plant Ecology	
BSC 460	Conservation Biology	
BSC 491	Capstone Experience	2
	Credit Hours	**16-17**
Second Semester		
CI 450	Stu Teach Secondary Ed (Capstone)	12
EDF 475	Schools in a Diverse Society	3
	Credit Hours	**15**
	Total Credit Hours	**126-129**

Chemistry Education 9-Adult, B.A.

- General Education Course

- Milestone course: a key success marker for your major. See your advisor to discuss the importance of this course in your plan of study.

Major

The Core Curriculum is designed to foster critical thinking skills and introduce students to basic domains of thinking that transcend disciplines. The Core applies to all majors. Information on specific classes in the Core can be found at https://www.marshall.edu/gened/.

Code	Title	Credit Hours
Core Curriculum		
Core 1: Critical Thinking		
FYS 100	First Yr Sem Critical Thinking	3
Critical Thinking Course		3
Critical Thinking Course		3
Core 2		
ENG 101	Beginning Composition	3
ENG 201	Advanced Composition	3
CMM 103	Fund Speech-Communication	3
MTH 127	College Algebra-Expanded	3-5
or MTH 130	College Algebra	
CHM 211 & CHM 217	Principles of Chemistry I and Principles of Chem Lab I	5
Core II Humanities		3
Core II Social Science		3
Core II Fine Arts		3
Additional University Requirements		
Writing Intensive		3
Writing Intensive		3
Multicultural or International		3
CHM 481	Special Topics (Capstone)	3
Teaching Specialization		
CHM 211	Principles of Chemistry I	3
CHM 217	Principles of Chem Lab I	2
CHM 212	Principles Chemistry II	3
CHM 218	Principles of Chem Lab II	2
CHM 327	Intro Organic Chemistry	3
CHM 345	Intro to Analytical Chem	4
CHM 357	Physical Chemistry: Quantum	4
CHM 365	Introductory Biochemistry	3
CHM Elective 300/400		3-5
MTH 127	College Algebra-Expanded	3-5
or MTH 130	College Algebra	
MTH 140	Applied Calculus	3-5
or MTH 229	Calculus/Analytic Geom I (CT)	
PS 325	Dev Scientific Thought	4
CHM 481	Special Topics (Applications of Chemical ED) (C)	3
Professional Education Core		
EDF 201	Ed Psych Developing Learner	3
EDF 270	Level I Clinical Exp	0
CISP 421	Child with Exceptionalities	3
EDF 435	Classroom Assessment	3
EDF 475	Schools in a Diverse Society	3
CI 345	Crit Read Writ & Think	3
CI 449	Instr & Clarm Mgt Sec Ed	3
CISP 422	Differentiate Instruction	3
CI 415	Int Meth & Mat: Sec Ed	3
CI 470	Level II Clinical Exp	0
Student Teaching Capstone		12
Free Elective		3
Free Elective		3
Free Elective		3
Free Elective		1
Free Elective		2

Major Information

Admission Requirements for ADMI 4

1. Grade Point Average of 2.80 or higher (both MU and overall),
2. EDF 201 Ed Psych Developing Learner (grade "*C*" or better) and EDF 270 Level I Clinical Exp (credit),
3. Passing scores on the PRAXIS Core exam – all 3 areas OR exemption,
4. Portfolio in LiveText which includes:
   - Self-Assessment,
   - Writing Sample and
   - Three Recommendations,
5. 21 ACT composite score,
6. MU students: Completion of 26 credit hours,
7. Transfer students: Completion of 12 Marshall University credit hours.

Admission Requirements for ADMI 5

1. 12 hours of completed Professional Education Core courses,
2. 2.8 GPA overall, at MU, and in Teaching Specialization,
3. 3.0 GPA in Professional Education Core

Admission Requirements for Student Teaching

1. At least 90% of Teaching Specialization courses completed,
2. Minimum of 100 credit hours completed,
3. 2.8 GPA overall, at MU, and in Teaching Specialization,
4. 3.0 GPA in Professional Education Core,
5. Completion of all Professional Education Core Courses

- Many courses require clinical experience in public school during normal school hours. Schedule open time accordingly.
- **Students should monitor their program of study carefully due to ongoing curricular changes.**
- **All** coursework in Teaching Specialization and Professional Education Core must be completed with a grade of *C* or better.
- West Virginia law mandates that all persons entering a school or having contact with students must have completed a background check and have not been found on the sexual offender registry prior to entering a school. Each county and school can also use the results of that background check as a basis for admitting or denying admittance. It is the procedure of the Marshall University College of Education and Professional Development that every student will obtain a background check prior to being placed in a school setting.

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Four Year Plan

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Course	Title	Credit Hours
First Year		
First Semester		
MTH 127 or MTH 130	College Algebra-Expanded or College Algebra	3-5
CMM 103	Fund Speech-Communication	3
ENG 101	Beginning Composition	3
FYS 100	First Yr Sem Critical Thinking	3
Core II Fine Arts		3
UNI 100	Freshman First Class	1
	Credit Hours	**16-18**
Second Semester		
CHM 211	Principles of Chemistry I	3
CHM 217	Principles of Chem Lab I	2
ENG 201	Advanced Composition	3
MTH 140 or MTH 229	Applied Calculus or Calculus/Analytic Geom I (CT)	3-5
Core II Social Science (CT, M/I)		3
	Credit Hours	**14-16**
Second Year		
First Semester		
CHM 212	Principles Chemistry II	3
CHM 218	Principles of Chem Lab II	2
International or Multicultural		3
Writing Intensive (CT)		3
Free Elective		3-4
	Credit Hours	**14-15**
Second Semester		
CHM 357	Physical Chemistry: Quantum	4
CISP 421	Child with Exceptionalities	3
EDF 201	Ed Psych Developing Learner	3
EDF 270	Level I Clinical Exp	0
Core II Humanities (WI)		3
Free Elective		3
	Credit Hours	**16**
Third Year		
First Semester		
CHM 327	Intro Organic Chemistry	3
CI 345	Crit Read Writ & Think	3
PS 325	Dev Scientific Thought	4
Free Elective		2
Free Elective		3
	Credit Hours	**15**
Second Semester		
CHM 345	Intro to Analytical Chem	4
CI 449	Instr & Clarm Mgt Sec Ed	3
CISP 422	Differentiate Instruction	3
EDF 435	Classroom Assessment	3
300/400 Level CHM Elective		4
	Credit Hours	**17**
Fourth Year		
First Semester		
CHM 365	Introductory Biochemistry	3
CI 415	Int Meth & Mat: Sec Ed	3
CI 470	Level II Clinical Exp	0
EDF 475	Schools in a Diverse Society	3
Free Elective		3
CHM 481	Special Topics (Capstone)	3
	Credit Hours	**15**

Second Semester		
CI 450	Stu Teach Secondary Ed (Capstone)	12
	Credit Hours	**12**
	Total Credit Hours	**119-124**

Elementary Education K-6 Comprehensive, B.A.

- General Education Course

- Milestone course: a key success marker for your major. See your advisor to discuss the importance of this course in your plan of study.

Major

Effective fall 2021, all elementary education majors will enter the Yearlong Residency Clinical Experience Model. This model will be built into schedules and give a minimum of 875 clinical hours in the elementary classroom. During the last year as an education major, Resident I candidates will spend a minimum of 14 weeks/250 hours per the first semester of the residency in a classroom placement and Resident II candidates will spend a minimum of 14 weeks/500 hours per the second semester of the residency in the same classroom placement.

The Core Curriculum is designed to foster critical thinking skills and introduce students to basic domains of thinking that transcend disciplines. The Core applies to all majors. Information on specific classes in the Core can be found at https://www.marshall.edu/gened/.

Code	Title	Credit Hours
Core Curriculum		
Core 1: Critical Thinking		
FYS 100	First Yr Sem Critical Thinking	3
HST 230	American History to 1877 (CT)	3
HST 231	American Hist From 1877 (CT)	3
Core 2		
ENG 101	Beginning Composition	3
ENG 201	Advanced Composition	3
CMM 103	Fund Speech-Communication	3
MTH 127	College Algebra-Expanded	3-5
or MTH 130	College Algebra	
BSC 105	Human Biology	3
BSC 105L	Human Biology Lab	1
Core II Humanities		3
HST 103	The World Since 1850 (CT) (Core II Social Science)	3
Core II Fine Arts		3
Additional University Requirements		
Writing Intensive		3
CI 321	ECE Curr and Methods (Writing Intensive)	3
HST 103	The World Since 1850 (CT) (Multicultural or International)	3
CI 405	Student Teaching-Elem Ed (Capstone)	12
Teaching Specialization		
ART 335	Art Ed 2D-3D	3
CI 101	Math for Elem Teachers I	3
CI 201	Math for Elem Teachers II	3
CI 342	Lit & Lang Arts Methods	3
CI 343	The Process of Reading Part I	3
CI 446	The Process of Reading Part II	3
WELL 305	HE & PE in Early Child Prog	3
GEO 317	World Regional Geography	3
HST 103	The World Since 1850 (CT)	3
HST 230	American History to 1877 (CT)	3
HST 231	American Hist From 1877 (CT)	3
MUS 342	Mus in Elementary Classroom	3
BSC 105	Human Biology	3
BSC 105L	Human Biology Lab	1
CI 248	Intro to Science Elem Ed	4
CI 348	Phy Sci & Engr for Elem Ed	4
Professional Education Core		
EDF 201	Ed Psych Developing Learner	3
EDF 270	Level I Clinical Exp	0
CISP 421	Child with Exceptionalities	3
CI 301	Teach Elem/Middle Mathematics	3
CI 360	Social Studies Methods Elem	3
CI 448	Science Methods: Elem Edu	3
CI 321	ECE Curr and Methods	3
CI 442	Instr & Clrm Mgt in Elem Ed	3
CISP 422	Differentiate Instruction	3
EDF 435	Classroom Assessment	3
EDF 475	Schools in a Diverse Society	3
CI 447	Inte Read/Lang Arts: Elem Edu	3
CI 471	Level II Clinical Exp	0
CI 405	Student Teaching-Elem Ed (Capstone)	12
Free Elective		2

Major Information

Admission Requirements for ADMI 4

1. Grade Point Average of 2.80 or higher (both MU and overall),
2. EDF 201 Ed Psych Developing Learner (grade "*C*" or better) and EDF 270 Level I Clinical Exp (credit),
3. Passing scores on the PRAXIS Core exam – all 3 areas OR exemption,
4. Portfolio in LiveText which includes:
   - Self-Assessment,
   - Writing Sample and
   - Three Recommendations,
5. 21 ACT composite score,
6. MU students: Completion of 26 credit hours,
7. Transfer students: Completion of 12 Marshall University credit hours.

Admission Requirements for ADMI 5

1. 12 hours of completed Professional Education Core courses,
2. 2.8 GPA overall, at MU, and in Teaching Specialization,
3. 3.0 GPA in Professional Education Core

Admission Requirements for Student Teaching

1. At least 90% of Teaching Specialization courses completed,
2. Minimum of 100 credit hours completed,
3. 2.8 GPA overall, at MU, and in Teaching Specialization,
4. 3.0 GPA in Professional Education Core,
5. Completion of all Professional Education Core Courses

- Many courses require clinical experience in public school during normal school hours. Schedule open time accordingly.
- **Students should monitor their program of study carefully due to ongoing curricular changes.**
- **All** coursework in Teaching Specialization and Professional Education Core must be completed with a grade of *C* or better.
- West Virginia law mandates that all persons entering a school or having contact with students must have completed a background check and have not been found on the sexual offender registry prior to entering a school. Each county and school can also use the results of that background check as a basis for admitting or denying admittance. It is the procedure of the Marshall University College of Education and Professional Development that every student will obtain a background check prior to being placed in a school setting.

- General Education Course

- Milestone course: a key success marker for your major. See your advisor to discuss the importance of this course in your plan of study.

Four Year Plan

The College of Education and Professional Development has the distinction of being the oldest part of Marshall University. The elementary program is designed for those interested in teaching K-6. Students receive broad content knowledge in the core academic areas as well as in the art and science of teaching children.

Course	Title	Credit Hours
First Year		
First Semester		
CMM 103	Fund Speech-Communication	3
ENG 101	Beginning Composition	3
FYS 100	First Yr Sem Critical Thinking	3
HST 103	The World Since 1850 (CT) (Core II Social Science)	3
MTH 127 or MTH 130	College Algebra-Expanded or College Algebra	3-5
UNI 100	Freshman First Class	1
	Credit Hours	**16-18**
Second Semester		
BSC 105	Human Biology	3
BSC 105L	Human Biology Lab	1
ENG 201	Advanced Composition	3
HST 231	American Hist From 1877 (CT)	3
Core II Fine Arts		3
CI 342	Lit & Lang Arts Methods	3
	Credit Hours	**16**
Second Year		
First Semester		
CI 101	Math for Elem Teachers I	3
CI 248	Intro to Science Elem Ed	4
CI 343	The Process of Reading Part I	3
EDF 201	Ed Psych Developing Learner	3
EDF 270	Level I Clinical Exp	0
Core II Humanities (WI, 200-level)		3
	Credit Hours	**16**
Second Semester		
CI 201	Math for Elem Teachers II	3
CI 446	The Process of Reading Part II	3
HST 230	American History to 1877 (CT)	3
Free Elective		3
	Credit Hours	**12**
Third Year		
First Semester		
CI 321	ECE Curr and Methods	3
CISP 421	Child with Exceptionalities	3
WELL 305	HE & PE in Early Child Prog	3
GEO 317	World Regional Geography	3
CI 348	Phy Sci & Engr for Elem Ed	4
	Credit Hours	**16**
Second Semester		
ART 335	Art Ed 2D-3D	3
CI 301	Teach Elem/Middle Mathematics	3
CI 442	Instr & Clrm Mgt in Elem Ed	3
CI 448	Science Methods: Elem Edu	3
CISP 422	Differentiate Instruction	3
	Credit Hours	**15**
Fourth Year		
First Semester		
CI 360	Social Studies Methods Elem	3
CI 447	Inte Read/Lang Arts: Elem Edu	3
CI 471	Level II Clinical Exp	0
EDF 435	Classroom Assessment	3
EDF 475	Schools in a Diverse Society	3
MUS 342	Mus in Elementary Classroom	3
	Credit Hours	**15**
Second Semester		
CI 405	Student Teaching-Elem Ed (Capstone)	12
	Credit Hours	**12**
	Total Credit Hours	**118-120**

English Education 5-9, B.A. (Second Specialization only)

- General Education Course

- Milestone course: a key success marker for your major. See your advisor to discuss the importance of this course in your plan of study.

Major

Code	Title	Credit Hours
Teaching Specialization		
ENG 350	Intro to Textual Analysis	3
Select one of the following:		3
ENG 203	Appalachian Literature	
ENG 221	Postcolonial Literature	
ENG 240	African American Literatures	
ENG 241	Multicultural Literatures	
ENG 242	Women Writers	
ENG 410	Shaks Comedy Tragedy & Rom	3
or ENG 412	Shaks Hist & Tragedies	
ENG 476	Structures of English Language	3
British/American Lit to 1800 select one of the following:		3
ENG 409	Milton	
ENG 411	Chaucer	
ENG 421	American Lit to 1830	
ENG 422	American Lit 1830-1865	
ENG 436	Medieval British Lit	
British/American Lit since 1800 select one of the following:		3
ENG 414	19th C British Novel	
ENG 415	Victorian Poetry	
ENG 416	Victorian Nonfiction	
ENG 423	American Lit 1865-1914	
ENG 424	American Literature after 1914	
ENG 433	20th C Brit & Irish Poetry	
ENG 434	20th C American Poetry	
ENG 447	British Romantic Poets	
World/International Lit select one of the following:		3
ENG 428	International Literature	
ENG 450	World Lit to Renaissance	
ENG 451	World Lit Since Renaissance	
ENG 402	Comp & Rhet Preservice Teacher	3
ENG 419	Approaches Teach Lit	3
ENG 499	Senior Capstone	3
Professional Education Core		
CI 402	Teach Mid Child Learners	3
Student Teaching Capstone (full semester)		12
Total Credit Hours		**45**

English Education 5-Adult, B.A.

- General Education Course

- Milestone course: a key success marker for your major. See your advisor to discuss the importance of this course in your plan of study.

Major

The Core Curriculum is designed to foster critical thinking skills and introduce students to basic domains of thinking that transcend disciplines. The Core applies to all majors. Information on specific classes in the Core can be found at https://www.marshall.edu/gened/.

Code	Title	Credit Hours
Core Curriculum		
Core 1: Critical Thinking		
FYS 100	First Yr Sem Critical Thinking	3
Critical Thinking Course		3
Critical Thinking Course		3
Core 2		
ENG 101	Beginning Composition	3
ENG 201	Advanced Composition	3
CMM 103	Fund Speech-Communication	3
MTH 121	Concepts and Applications (CT)	3
Core II Natural Science		4
Core II Fine Arts		3
Core II Social Science		3
Core II Humanities (ENG level 200, WI)		3
Additional University Requirements		
Writing Intensive		3
ENG 350	Intro to Textual Analysis (WI)	3
Multicultural or International		3
ENG 499	Senior Capstone	3
Teaching Specialization		
ENG 350	Intro to Textual Analysis	3
ENG 355	Intro to Critical Theory	3
Select two of the following:		6
ENG 203	Appalachian Literature	
ENG 221	Postcolonial Literature	
ENG 240	African American Literatures	
ENG 241	Multicultural Literatures	
ENG 242	Women Writers	
ENG 428	International Literature	
ENG 450	World Lit to Renaissance	
ENG 451	World Lit Since Renaissance	
ENG 410	Shaks Comedy Tragedy & Rom	3
or ENG 412	Shaks Hist & Tragedies	
ENG 476	Structures of English Language	3
Select one of the following:		3
ENG 421	American Lit to 1830	
ENG 422	American Lit 1830-1865	
ENG 423	American Lit 1865-1914	
ENG 424	American Literature after 1914	
ENG 432	Contemporary Literature	
ENG 434	20th C American Poetry	
Select one of the following:		3
ENG 354	Scientific & Tech Writing	
ENG 360	Intro Creative Writing	

ENG 408	Writing in the Digital World	
ENG 402	Comp & Rhet Preservice Teacher	3
ENG 419	Approaches Teach Lit	3
ENG 430	Young Adult Literature	3
ENG 499	Senior Capstone	3
Free Elective		3
Free Elective		3
Free Elective		4
Professional Education Core		
EDF 201	Ed Psych Developing Learner	3
EDF 270	Level I Clinical Exp	0
CISP 421	Child with Exceptionalities	3
EDF 435	Classroom Assessment	3
EDF 475	Schools in a Diverse Society	3
CI 345	Crit Read Writ & Think	3
CI 402	Teach Mid Child Learners	3
CI 449	Instr & Clarm Mgt Sec Ed	3
CISP 422	Differentiate Instruction	3
CI 470	Level II Clinical Exp	0
CI 450	Stu Teach Secondary Ed	4-12

Major Information

Admission Requirements for ADMI 4

1. Grade Point Average of 2.80 or higher (both MU and overall),
2. EDF 201 Ed Psych Developing Learner (grade *"C"* or better) and EDF 270 Level I Clinical Exp (credit),
3. Passing scores on the PRAXIS Core exam – all 3 areas OR exemption,
4. Portfolio in LiveText which includes:
   - Self-Assessment,
   - Writing Sample and
   - Three Recommendations,
5. 21 ACT composite score,
6. MU students: Completion of 26 credit hours,
7. Transfer students: Completion of 12 Marshall University credit hours.

Admission Requirements for ADMI 5

1. 12 hours of completed Professional Education Core courses,
2. 2.8 GPA overall, at MU, and in Teaching Specialization,
3. 3.0 GPA in Professional Education Core

Admission Requirements for Student Teaching

1. At least 90% of Teaching Specialization courses completed,
2. Minimum of 100 credit hours completed,
3. 2.8 GPA overall, at MU, and in Teaching Specialization,
4. 3.0 GPA in Professional Education Core,
5. Completion of all Professional Education Core Courses

- Many courses require clinical experience in public school during normal school hours. Schedule open time accordingly.
- **Students should monitor their Program of Study carefully due to ongoing curricular changes.**
- **All** coursework in Teaching Specialization and Professional Education Core must be completed with a grade of *C* or better.
- West Virginia law mandates that all persons entering a school or having contact with students must have completed a background check and have not been found on the sexual offender registry prior to entering a school. Each county and school can also use the results of that background check as a basis for admitting or denying admittance. It is the procedure of the Marshall University College of Education and Professional Development that every student will obtain a background check prior to being placed in a school setting.

- General Education Course

- Milestone course: a key success marker for your major. See your advisor to discuss the importance of this course in your plan of study.

Four Year Plan

The College of Education and Professional Development has the distinction of being the oldest part of Marshall University. The CIF (Curriculum, Instruction, & Foundations) program includes elementary, secondary, educational foundations, and educational computing for pre-service teachers. The secondary programs are designed for those wanting to teach content to middle school and/or high school students. The educational foundations and computing courses are designed for those entering the education field. Students receive broad content knowledge in the core academic area of choice as well as in the art and science of teaching children.

Course	Title	Credit Hours
First Year		
First Semester		
CMM 103	Fund Speech-Communication	3
ENG 101	Beginning Composition	3
FYS 100	First Yr Sem Critical Thinking	3
MTH 121	Concepts and Applications (CT) (or above)	3
Core II Fine Arts		3
UNI 100	Freshman First Class	1
	Credit Hours	**16**
Second Semester		
ENG 201	Advanced Composition	3
Core II Physical/Natural Science		4
Core II Social Science (CT)		3
Any CT designated course		3
International or Multicultural		3
	Credit Hours	**16**
Second Year		
First Semester		
CISP 421	Child with Exceptionalities	3
EDF 201	Ed Psych Developing Learner	3
EDF 270	Level I Clinical Exp	0
Select one of the following:		3
ENG 203	Appalachian Literature	
ENG 221	Postcolonial Literature	
ENG 240	African American Literatures	
ENG 241	Multicultural Literatures	
ENG 242	Women Writers	

ENG 428	International Literature	
ENG 450	World Lit to Renaissance	
ENG 451	World Lit Since Renaissance	
Free Elective		4
Free Elective		3
	Credit Hours	**16**
Second Semester		
CISP 422	Differentiate Instruction	3
ENG 350	Intro to Textual Analysis	3
Core II Humanities (ENG level 200, WI)		3
Select one of the following:		3
ENG 354	Scientific & Tech Writing	
ENG 360	Intro Creative Writing	
ENG 408	Writing in the Digital World	
Free Elective		3
	Credit Hours	**15**
Third Year		
First Semester		
CI 345	Crit Read Writ & Think	3
ENG 355	Intro to Critical Theory	3
ENG 430	Young Adult Literature	3
ENG 410 or ENG 412	Shaks Comedy Tragedy & Rom or Shaks Hist & Tragedies	3
Free Elective		3
	Credit Hours	**15**
Second Semester		
CI 402	Teach Mid Child Learners	3
CI 449	Instr & Clarm Mgt Sec Ed	3
ENG 419	Approaches Teach Lit	3
ENG 476	Structures of English Language	3
Select one of the following:		3
ENG 421	American Lit to 1830	
ENG 422	American Lit 1830-1865	
ENG 423	American Lit 1865-1914	
ENG 424	American Literature after 1914	
ENG 432	Contemporary Literature	
ENG 434	20th C American Poetry	
	Credit Hours	**15**
Fourth Year		
First Semester		
CI 470	Level II Clinical Exp	0
EDF 435	Classroom Assessment	3
EDF 475	Schools in a Diverse Society	3
ENG 402	Comp & Rhet Preservice Teacher	3
Select one of the following:		3
ENG 203	Appalachian Literature	
ENG 221	Postcolonial Literature	
ENG 240	African American Literatures	
ENG 241	Multicultural Literatures	
ENG 242	Women Writers	
ENG 428	International Literature	
ENG 450	World Lit to Renaissance	
ENG 451	World Lit Since Renaissance	
ENG 499	Senior Capstone	3
	Credit Hours	**15**
Second Semester		
CI 450	Stu Teach Secondary Ed (Capstone)	12
	Credit Hours	**12**
	Total Credit Hours	**120**

General Science Education 5-9, B.A. (Second Specialization only)

- General Education Course

- Milestone course: a key success marker for your major. See your advisor to discuss the importance of this course in your plan of study.

Major

Code	Title	Credit Hours
Teaching Specialization		
BSC 120	Principles of Biology I	3
BSC 120L	Principles of Biology I Lab	1
BSC 121	Principles of Biology II	3
BSC 121L	Prin of Biology II Lab	1
Select one of the following:		4
BSC 320	Principles of Ecology	
Any Ecology or Environmental Science course		
GEO 230	Intro to Meteorology (CT)	4
GLY 200	The Dynamic Earth	3
GLY 210L	Earth Materials Lab	1
PS 101	Introductory Astronomy (CT)	4
CI 248	Intro to Science Elem Ed	4
CI 348	Phy Sci & Engr for Elem Ed	4
PS 325	Dev Scientific Thought	4
Professional Education Core		
CI 402	Teach Mid Child Learners	3
Student Teaching Capstone (full semester)		12
Total Credit Hours		**51**

General Science Education 5-Adult, B.A.

- General Education Course

- Milestone course: a key success marker for your major. See your advisor to discuss the importance of this course in your plan of study.

Major

The Core Curriculum is designed to foster critical thinking skills and introduce students to basic domains of thinking that transcend

disciplines. The Core applies to all majors. Information on specific classes in the Core can be found at https://www.marshall.edu/gened/.

Code	Title	Credit Hours
Core Curriculum		
Core 1: Critical Thinking		
FYS 100	First Yr Sem Critical Thinking	3
GEO 230	Intro to Meteorology (CT)	4
Critical Thinking Course		3
Core 2		
ENG 101	Beginning Composition	3
ENG 201	Advanced Composition	3
CMM 103	Fund Speech-Communication	3
MTH 127	College Algebra-Expanded	3-5
or MTH 130	College Algebra	
BSC 120	Principles of Biology I	3
BSC 120L	Principles of Biology I Lab	1
Core II Humanities		3
Core II Social Science		3
Core II Fine Arts		3
Additional University Requirements		
Writing Intensive		3
Writing Intensive		3
Multicultural or International		3
CI 450	Stu Teach Secondary Ed (Capstone)	12
Teaching Specialization		
MTH 127	College Algebra-Expanded	3-5
or MTH 130	College Algebra	
MTH 122	Plane Trigonometry	3
BSC 120	Principles of Biology I	3
BSC 120L	Principles of Biology I Lab	1
BSC 121	Principles of Biology II	3
BSC 121L	Prin of Biology II Lab	1
BSC 320	Principles of Ecology (or any Environmental Science course)	4
CHM 211	Principles of Chemistry I	3
CHM 217	Principles of Chem Lab I	2
CHM 212	Principles Chemistry II	3
CHM 218	Principles of Chem Lab II	2
GEO 230	Intro to Meteorology (CT)	4
GLY 200	The Dynamic Earth	3
GLY 210L	Earth Materials Lab	1
PHY 201	College Physics I	3
PHY 202	General Physics I Laboratory	1
PHY 203	College Physics II	3
PHY 204	General Physics 2 Laboratory	1
PS 101	Introductory Astronomy (CT)	4
PS 325	Dev Scientific Thought	4
Professional Education Core		
EDF 201	Ed Psych Developing Learner	3
EDF 270	Level I Clinical Exp	0
CISP 421	Child with Exceptionalities	3
EDF 435	Classroom Assessment	3
EDF 475	Schools in a Diverse Society	3
CI 345	Crit Read Writ & Think	3
CI 402	Teach Mid Child Learners	3
CI 449	Instr & Clarm Mgt Sec Ed	3
CISP 422	Differentiate Instruction	3
CI 415	Int Meth & Mat: Sec Ed	3
CI 470	Level II Clinical Exp	0
CI 450	Stu Teach Secondary Ed (Capstone)	12
Free Elective		1

Major Information

Admission Requirements for ADMI 4

1. Grade Point Average of 2.80 or higher (both MU and overall),
2. EDF 201 Ed Psych Developing Learner (grade "*C*" or better) and EDF 270 Level I Clinical Exp (credit),
3. Passing scores on the PRAXIS Core exam – all 3 areas OR exemption,
4. Portfolio in LiveText which includes:
   - Self-Assessment,
   - Writing Sample and
   - Three Recommendations,
5. 21 ACT composite score,
6. MU students: Completion of 26 credit hours,
7. Transfer students: Completion of 12 Marshall University credit hours.

Admission Requirements for ADMI 5

1. 12 hours of completed Professional Education Core courses,
2. 2.8 GPA overall, at MU, and in Teaching Specialization,
3. 3.0 GPA in Professional Education Core

Admission Requirements for Student Teaching

1. At least 90% of Teaching Specialization courses completed,
2. Minimum of 100 credit hours completed,
3. 2.8 GPA overall, at MU, and in Teaching Specialization,
4. 3.0 GPA in Professional Education Core,
5. Completion of all Professional Education Core Courses

- Many courses require clinical experience in public school during normal school hours. Schedule open time accordingly.
- **Students should monitor their program of study carefully due to ongoing curricular changes.**
- **All** coursework in Teaching Specialization and Professional Education Core must be completed with a grade of *C* or better.
- West Virginia law mandates that all persons entering a school or having contact with students must have completed a background check and have not been found on the sexual offender registry prior to entering a school. Each county and school can also use the results of that background check as a basis for admitting or denying admittance. It is the procedure of the Marshall University College of Education and Professional Development that every student will obtain a background check prior to being placed in a school setting.

- General Education Course

- Milestone course: a key success marker for your major. See your advisor to discuss the importance of this course in your plan of study.

Four Year Plan

The College of Education and Professional Development has the distinction of being the oldest part of Marshall University. The CIF (Curriculum, Instruction, & Foundations) program includes elementary, secondary, educational foundations, and educational computing for pre-service teachers. The secondary programs are designed for those wanting to teach content to middle school and/or high school students. The educational foundations and computing courses are designed for those entering the education field. Students receive broad content knowledge in the core academic area of choice as well as in the art and science of teaching children.

Course	Title	Credit Hours
First Year		
First Semester		
BSC 120	Principles of Biology I	3
BSC 120L	Principles of Biology I Lab	1
MTH 127 or MTH 130	College Algebra-Expanded or College Algebra	3-5
CMM 103	Fund Speech-Communication	3
ENG 101	Beginning Composition	3
FYS 100	First Yr Sem Critical Thinking	3
UNI 100	Freshman First Class	1
	Credit Hours	**17-19**
Second Semester		
BSC 121	Principles of Biology II	3
BSC 121L	Prin of Biology II Lab	1
MTH 122	Plane Trigonometry	3
ENG 201	Advanced Composition	3
Core II Fine Arts		3
Core II Social Science (WI)		3
	Credit Hours	**16**
Second Year		
First Semester		
CHM 211	Principles of Chemistry I	3
CHM 217	Principles of Chem Lab I	2
EDF 201	Ed Psych Developing Learner	3
EDF 270	Level I Clinical Exp	0
Multicultural or International (CT)		3
Free Elective		3
	Credit Hours	**14**
Second Semester		
CHM 212	Principles Chemistry II	3
CHM 218	Principles of Chem Lab II	2
CISP 421	Child with Exceptionalities	3
Core II Humanities (ENG level 200, WI)		3
BSC 320	Principles of Ecology (or any Environmental Science Course)	4
	Credit Hours	**15**
Third Year		
First Semester		
GEO 230	Intro to Meteorology (CT)	4
GLY 200	The Dynamic Earth	3
GLY 210L	Earth Materials Lab	1
PHY 201	College Physics I	3
PHY 202	General Physics I Laboratory	1
Free Elective		1
	Credit Hours	**13**
Second Semester		
CI 345	Crit Read Writ & Think	3
CI 402	Teach Mid Child Learners	3
CI 449	Instr & Clarm Mgt Sec Ed	3
PHY 203	College Physics II	3
PHY 204	General Physics 2 Laboratory	1
PS 325	Dev Scientific Thought	4
	Credit Hours	**17**
Fourth Year		
First Semester		
CI 415	Int Meth & Mat: Sec Ed	3
CI 470	Level II Clinical Exp	0
CISP 422	Differentiate Instruction	3
EDF 435	Classroom Assessment	3
EDF 475	Schools in a Diverse Society	3
PS 101	Introductory Astronomy (CT)	4
	Credit Hours	**16**
Second Semester		
CI 450	Stu Teach Secondary Ed (Capstone)	12
	Credit Hours	**12**
	Total Credit Hours	**120-122**

Japanese Education PreK-Adult, B.A.

Admission to this program is currently suspended.

Mathematics Education 5-9, B.A. (Second Specialization only)

- General Education Course

- Milestone course: a key success marker for your major. See your advisor to discuss the importance of this course in your plan of study.

Major

Code	Title	Credit Hours
Teaching Specialization		
MTH 122	Plane Trigonometry	3
MTH 127	College Algebra-Expanded	3-5
or MTH 130	College Algebra	
MTH 140	Applied Calculus	3
MTH 220	Discrete Structures	3
STA 225	Introductory Statistics (CT)	3
MTH 329	Elementary Linear Algebra	3
MTH 400	Structure of Algebra	3
MTH 401	Structure Modern Geometry	3
Professional Education Core		
CI 301	Teach Elem/Middle Mathematics	3
CI 402	Teach Mid Child Learners	3
Student Teaching Capstone (full semester)		12
Total Credit Hours		**42-44**

Mathematics Education 5-Adult, B.A.

- General Education Course

- Milestone course: a key success marker for your major. See your advisor to discuss the importance of this course in your plan of study.

Major

The Core Curriculum is designed to foster critical thinking skills and introduce students to basic domains of thinking that transcend disciplines. The Core applies to all majors. Information on specific classes in the Core can be found at https://www.marshall.edu/gened/.

Code	Title	Credit Hours
Core Curriculum		
Core 1: Critical Thinking		
FYS 100	First Yr Sem Critical Thinking	3
MTH 229	Calculus/Analytic Geom I (CT)	5
Critical Thinking Course		3
Core 2		
ENG 101	Beginning Composition	3
ENG 201	Advanced Composition	3
CMM 103	Fund Speech-Communication	3
MTH 229	Calculus/Analytic Geom I (CT)	5
Core II Natural Science		4
Core II Humanities		3
Core II Social Studies		3
Core II Fine Arts		3
Additional University Requirements		
Writing Intensive		3
Writing Intensive		3
Multicultural or International		3
MTH 491	Senior Seminar	2
Teaching Specialization		
MTH 229	Calculus/Analytic Geom I (CT)	5
MTH 230	Calculus/Analytic Geom II	4
MTH 231	Calculus/Analytic Geom III	4
MTH 300	Intro to Higher Math	4
MTH 331	Linear Algebra	4
MTH 404	Math Methods and Materials	3
MTH 405	History of Mathematics	3
MTH 440	Graph Th and Combinatorics	3
STA 445	Probability & Statistics I	3
STA 446	Probability & Statistics II	3
MTH 448	Modern Geometries	3
MTH 449	Projective Geometry	3
MTH 450	Modern Algebra I	3
MTH 491	Senior Seminar	2
Free Elective		2
Professional Education Core		
EDF 201	Ed Psych Developing Learner	3
EDF 270	Level I Clinical Exp	0
CISP 421	Child with Exceptionalities	3
EDF 435	Classroom Assessment	3
EDF 475	Schools in a Diverse Society	3
CI 345	Crit Read Writ & Think	3
CI 402	Teach Mid Child Learners	3
CI 449	Instr & Clarm Mgt Sec Ed	3
CISP 422	Differentiate Instruction	3
CI 470	Level II Clinical Exp	0
CI 450	Stu Teach Secondary Ed (Capstone)	12

Major Information

Admission Requirements for ADMI 4

1. Grade Point Average of 2.80 or higher (both MU and overall),
2. EDF 201 Ed Psych Developing Learner (grade "*C*" or better) and EDF 270 Level I Clinical Exp (credit),
3. Passing scores on the PRAXIS Core exam – all 3 areas OR exemption,
4. Portfolio in LiveText which includes:
   - Self-Assessment,
   - Writing Sample and
   - Three Recommendations,
5. 21 ACT composite score,
6. MU students: Completion of 26 credit hours,
7. Transfer students: Completion of 12 Marshall University credit hours.

Admission Requirements for ADMI 5

1. 12 hours of completed Professional Education Core courses,
2. 2.8 GPA overall, at MU, and in Teaching Specialization,
3. 3.0 GPA in Professional Education Core

Admission Requirements for Student Teaching

1. At least 90% of Teaching Specialization courses completed,
2. Minimum of 100 credit hours completed,

3. 2.8 GPA overall, at MU, and in Teaching Specialization,
4. 3.0 GPA in Professional Education Core,
5. Completion of all Professional Education Core Courses

- Many courses require clinical experience in public school during normal school hours. Schedule open time accordingly.
- **Students should monitor their program of study carefully due to ongoing curricular changes.**
- **All** coursework in Teaching Specialization and Professional Education Core must be completed with a grade of *C* or better.
- West Virginia law mandates that all persons entering a school or having contact with students must have completed a background check and have not been found on the sexual offender registry prior to entering a school. Each county and school can also use the results of that background check as a basis for admitting or denying admittance. It is the procedure of the Marshall University College of Education and Professional Development that every student will obtain a background check prior to being placed in a school setting.

Four Year Plan

The College of Education and Professional Development has the distinction of being the oldest part of Marshall University. The CIF (Curriculum, Instruction, & Foundations) program includes elementary, secondary, educational foundations, and educational computing for pre-service teachers. The secondary programs are designed for those wanting to teach content to middle school and/or high school students. The educational foundations and computing courses are designed for those entering the education field. Students receive broad content knowledge in the core academic area of choice as well as in the art and science of teaching children.

Course	Title	Credit Hours
First Year		
First Semester		
MTH 229	Calculus/Analytic Geom I (CT)	5
CMM 103	Fund Speech-Communication	3
ENG 101	Beginning Composition	3
FYS 100	First Yr Sem Critical Thinking	3
Core II Fine Arts		3
UNI 100	Freshman First Class	1
	Credit Hours	**18**
Second Semester		
MTH 230	Calculus/Analytic Geom II	4
ENG 201	Advanced Composition	3
Muticultural/International		3
Core II Physical or Natural Science		4
Core II Social Science (M/I)		3
	Credit Hours	**17**
Second Year		
First Semester		
EDF 201	Ed Psych Developing Learner	3
EDF 270	Level I Clinical Exp	0
MTH 231	Calculus/Analytic Geom III	4
MTH 300	Intro to Higher Math	4
Free Elective		3
	Credit Hours	**14**
Second Semester		
CI 345	Crit Read Writ & Think	3
CISP 421	Child with Exceptionalities	3
MTH 331	Linear Algebra	4
Core II Humanities (ENG 200 level, WI)		3
MTH 405	History of Mathematics (odd years only)	3
	Credit Hours	**16**
Third Year		
First Semester		
CISP 422	Differentiate Instruction	3
MTH 440	Graph Th and Combinatorics	3
STA 445	Probability & Statistics I	3
MTH 448	Modern Geometries	3
Any CT course designated (WI)		3
	Credit Hours	**15**
Second Semester		
CI 449	Instr & Clarm Mgt Sec Ed	3
CI 470	Level II Clinical Exp	0
MTH 404	Math Methods and Materials	3
STA 446	Probability & Statistics II	3
MTH 449	Projective Geometry	3
Free Elective		2
	Credit Hours	**14**
Fourth Year		
First Semester		
CI 402	Teach Mid Child Learners	3
EDF 435	Classroom Assessment	3
EDF 475	Schools in a Diverse Society	3
MTH 450	Modern Algebra I	3
MTH 491	Senior Seminar	2
	Credit Hours	**14**
Second Semester		
CI 450	Stu Teach Secondary Ed (Capstone)	12
	Credit Hours	**12**
	Total Credit Hours	**120**

Music Education PreK-Adult, B.A.

- General Education Course

- Milestone course: a key success marker for your major. See your advisor to discuss the importance of this course in your plan of study.

Major

The Core Curriculum is designed to foster critical thinking skills and introduce students to basic domains of thinking that transcend disciplines. The Core applies to all majors. Information on specific classes in the Core can be found at https://www.marshall.edu/gened/.

Code	Title	Credit Hours
Core Curriculum		
Core 1: Critical Thinking		
FYS 100	First Yr Sem Critical Thinking	3
MTH 121	Concepts and Applications (CT)	3
Critical Thinking Course		3
Core 2		
ENG 101	Beginning Composition	3
ENG 201	Advanced Composition	3
CMM 103	Fund Speech-Communication	3
MTH 121	Concepts and Applications (CT)	3
Core II Natural Science		4
ART 112	Intro To Visual Art (Fine Arts)	3
or THE 112	Theatre Appreciation	
Core II Social Science		3
Core II Humanities		3
Additional University Requirements		
Writing Intensive		3
Writing Intensive		3
Multicultural or International		3
CI 450	Stu Teach Secondary Ed (Capstone)	4-12
Teaching Specialization		
MUS 111	Elementary Music Theory I	2
MUS 112	Elementary Music Theory II	2
MUS 113	Elem Aural Skills I	2
MUS 114	Elem Aural Skills II	2
MUS 211	Advanced Music Theory I	2
MUS 212	Advanced Music Theory II	2
MUS 213	Adv Aural Skills I	2
MUS 214	Adv Aural Skills II	2
MUS 218	Intro to Music Technology	3
MUS 290	Music History to 1750	3
MUS 301	Analysis	3
MUS 315	Basic Conducting	2
MUS 320	Instrumental Arranging	2
MUS 360	Music History 1730 - 1900	3
MUS 361	Music History Since 1900	3
MUS 376	Recital	1
MUS 415	Advanced Conducting	2
MUS 179D	Class Piano (Piano Proficiency)	1
Principle Applied		12
Principle Ensemble		7
Technique		5
Applied Music Laboratory		0
Choral Ensemble		1
MUS 266	Marching Thunder	1
Professional Education Core		
EDF 201	Ed Psych Developing Learner	3
EDF 270	Level I Clinical Exp	0
CISP 421	Child with Exceptionalities	3
CI 345	Crit Read Writ & Think	3
CI 449	Instr & Clarm Mgt Sec Ed	3
CISP 422	Differentiate Instruction	3
EDF 475	Schools in a Diverse Society	3
MUS 338	Mat & Meth School Mus Pre K-4	3
MUS 339	Mat & Meth Instru Mus 5-12	3
MUS 340	Mat & Meth Chor Grn Mus 5-12	3
CI 472	Level II Clinical Exp	0
CI 450	Stu Teach Secondary Ed (Capstone)	12

Major Information

Admission Requirements for ADMI 4

1. Grade Point Average of 2.80 or higher (both MU and overall),
2. EDF 201 Ed Psych Developing Learner (grade "*C*" or better) and EDF 270 Level I Clinical Exp (credit),
3. Passing scores on the PRAXIS Core exam – all 3 areas OR exemption,
4. Portfolio in LiveText which includes:
   - Self-Assessment,
   - Writing Sample and
   - Three Recommendations,
5. 21 ACT composite score,
6. MU students: Completion of 26 credit hours,
7. Transfer students: Completion of 12 Marshall University credit hours.

Admission Requirements for ADMI 5

1. 12 hours of completed Professional Education Core courses,
2. 2.8 GPA overall, at MU, and in Teaching Specialization,
3. 3.0 GPA in Professional Education Core

Admission Requirements for Student Teaching

1. At least 90% of Teaching Specialization courses completed,
2. Minimum of 100 credit hours completed,
3. 2.8 GPA overall, at MU, and in Teaching Specialization,
4. 3.0 GPA in Professional Education Core,
5. Completion of all Professional Education Core Courses

- Many courses require clinical experience in public school during normal school hours. Schedule open time accordingly.
- **Students should monitor their program of study carefully due to ongoing curricular changes.**
- **All** coursework in Teaching Specialization and Professional Education Core must be completed with a grade of *C* or better.
- West Virginia law mandates that all persons entering a school or having contact with students must have completed a background check and have not been found on the sexual offender registry prior to entering a school. Each county and school can also use the results of that background check as a basis for admitting or denying admittance. It is the procedure of the Marshall University College of Education and Professional Development that every student will obtain a background check prior to being placed in a school setting.

- General Education Course

- Milestone course: a key success marker for your major. See your advisor to discuss the importance of this course in your plan of study.

Four Year Plan

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Course	Title	Credit Hours
First Year		
First Semester		
MUS 100	Applied Music Laboratory	0
MUS 111	Elementary Music Theory I	2
MUS 113	Elem Aural Skills I	2
CMM 103	Fund Speech-Communication	3
ENG 101	Beginning Composition	3
FYS 100	First Yr Sem Critical Thinking	3
Principal Ensemble		1
Principal Applied		1
UNI 100	Freshman First Class	1
	Credit Hours	**16**
Second Semester		
MTH 121	Concepts and Applications (CT)	3
MUS 100	Applied Music Laboratory	0
MUS 112	Elementary Music Theory II	2
MUS 114	Elem Aural Skills II	2
ENG 201	Advanced Composition	3
Core II Social Science (CT, WI, M/I)		3
Principal Applied		1
Technique		2
Principal Ensemble		1
	Credit Hours	**17**
Second Year		
First Semester		
EDF 201	Ed Psych Developing Learner	3
EDF 270	Level I Clinical Exp	0
MUS 100	Applied Music Laboratory	0
MUS 211	Advanced Music Theory I	2
MUS 213	Adv Aural Skills I	2
Principal Ensemble		1
Technique		2
Principal Applied		2
MUS 266	Marching Thunder	1
Natural/Physical Science		4
	Credit Hours	**17**
Second Semester		
CISP 421	Child with Exceptionalities	3
MUS 100	Applied Music Laboratory	0
MUS 212	Advanced Music Theory II	2
MUS 214	Adv Aural Skills II	2
Core II Humanities (ENG 200 level, WI)		3
MUS 315	Basic Conducting	2
Principal Applied		2
Principal Ensemble		1
MUS 290	Music History to 1750	3
	Credit Hours	**18**
Third Year		
First Semester		
CISP 422	Differentiate Instruction	3
MUS 100	Applied Music Laboratory	0
MUS 301	Analysis	3
MUS 415	Advanced Conducting	2
Technique		1
Principal Ensemble		1
MUS 320	Instrumental Arranging	2
MUS 360	Music History 1730 - 1900	3
Principal Applied		2
Choral Ensemble		1
	Credit Hours	**18**
Second Semester		
CI 449	Instr & Clarm Mgt Sec Ed	3
MUS 100	Applied Music Laboratory	0
MUS 179D	Class Piano	1
MUS 218	Intro to Music Technology	3
MUS 339	Mat & Meth Instru Mus 5-12	3
MUS 340	Mat & Meth Chor Grn Mus 5-12	3
MUS 361	Music History Since 1900	3
Principal Ensemble		1
Principal Applied		2
	Credit Hours	**19**
Fourth Year		
First Semester		
CI 345	Crit Read Writ & Think	3
CI 472	Level II Clinical Exp	0
EDF 475	Schools in a Diverse Society	3
MUS 100	Applied Music Laboratory	0
MUS 338	Mat & Meth School Mus Pre K-4	3
MUS 376	Recital	1
Principal Applied		2
Core II Fine Arts (ART 112 or THE 112)		
Principal Ensemble		1
	Credit Hours	**13**
Second Semester		
CI 450	Stu Teach Secondary Ed (Capstone)	12
	Credit Hours	**12**
	Total Credit Hours	**130**

Physics Education 9-Adult Comprehensive, B.A.

- General Education Course

- Milestone course: a key success marker for your major. See your advisor to discuss the importance of this course in your plan of study.

Major

The Core Curriculum is designed to foster critical thinking skills and introduce students to basic domains of thinking that transcend disciplines. The Core applies to all majors. Information on specific classes in the Core can be found at https://www.marshall.edu/gened/.

Code	Title	Credit Hours
Core Curriculum		
Core 1: Critical Thinking		
FYS 100	First Yr Sem Critical Thinking	3
PS 101	Introductory Astronomy (CT)	4
Critical Thinking Course		3
Core 2		
ENG 101	Beginning Composition	3
ENG 201	Advanced Composition	3
CMM 103	Fund Speech-Communication	3
MTH 127	College Algebra-Expanded	3-5
or MTH 130	College Algebra	
GLY 200 & GLY 210L	The Dynamic Earth and Earth Materials Lab	4
Core II Humanities		3
Core II Social Science		3
Core II Fine Arts		3
Additional University Requirements		
Writing Intensive		3
Writing Intensive		3
Muticultural or International		3
PHY 491	Capstone	2
Teaching Specialization		
MTH 122	Plane Trigonometry	3
MTH 127	College Algebra-Expanded	3-5
or MTH 130	College Algebra	
MTH 140	Applied Calculus	3-5
or MTH 229	Calculus/Analytic Geom I (CT)	
CHM 211	Principles of Chemistry I	3
CHM 217	Principles of Chem Lab I	2
GLY 200	The Dynamic Earth	3
GLY 210L	Earth Materials Lab	1
PHY 201	College Physics I	3
PHY 202	General Physics I Laboratory	1
PHY 203	College Physics II	3
PHY 204	General Physics 2 Laboratory	1
PHY 320	Intro Modern Physics	3
PHY 421	Modern Physics Lab	2
PS 101	Introductory Astronomy (CT)	4
PS 325	Dev Scientific Thought	4
PS/PHY Elective		4
PS/PHY Elective		3
PHY 491	Capstone	2
Professional Education Core		
EDF 201	Ed Psych Developing Learner	3
EDF 270	Level I Clinical Exp	0
CISP 421	Child with Exceptionalities	3
CI 345	Crit Read Writ & Think	3
CI 449	Instr & Clarm Mgt Sec Ed	3
CISP 422	Differentiate Instruction	3
EDF 435	Classroom Assessment	3
EDF 475	Schools in a Diverse Society	3
CI 415	Int Meth & Mat: Sec Ed	3
CI 470	Level II Clinical Exp	0
CI 450	Stu Teach Secondary Ed (Capstone)	12
Free Elective		3
Free Elective		2

Major Information

Admission Requirements for ADMI 4

1. Grade Point Average of 2.80 or higher (both MU and overall),
2. EDF 201 Ed Psych Developing Learner (grade "*C*" or better) and EDF 270 (credit),
3. Passing scores on the PRAXIS Core exam – all 3 areas OR exemption,
4. Portfolio in LiveText which includes:
   - Self-Assessment,
   - Writing Sample and
   - Three Recommendations,
5. 21 ACT composite score,
6. MU students: Completion of 26 credit hours,
7. Transfer students: Completion of 12 Marshall University credit hours.

Admission Requirements for ADMI 5

1. 12 hours of completed Professional Education Core courses,
2. 2.8 GPA overall, at MU, and in Teaching Specialization,
3. 3.0 GPA in Professional Education Core

Admission Requirements for Student Teaching

1. At least 90% of Teaching Specialization courses completed,
2. Minimum of 100 credit hours completed,
3. 2.8 GPA overall, at MU, and in Teaching Specialization,
4. 3.0 GPA in Professional Education Core,
5. Completion of all Professional Education Core Courses

- Many courses require clinical experience in public school during normal school hours. Schedule open time accordingly.
- **Students should monitor their program of study carefully due to ongoing curricular changes.**
- **All** coursework in Teaching Specialization and Professional Education Core must be completed with a grade of *C* or better.

- West Virginia law mandates that all persons entering a school or having contact with students must have completed a background check and have not been found on the sexual offender registry prior to entering a school. Each county and school can also use the results of that background check as a basis for admitting or denying admittance. It is the procedure of the Marshall University College of Education and Professional Development that every student will obtain a background check prior to being placed in a school setting.

- General Education Course

- Milestone course: a key success marker for your major. See your advisor to discuss the importance of this course in your plan of study.

Four Year Plan

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Course	Title	Credit Hours
First Year		
First Semester		
GLY 200	The Dynamic Earth	3
GLY 210L	Earth Materials Lab	1
MTH 127 or MTH 130	College Algebra-Expanded or College Algebra	3-5
CMM 103	Fund Speech-Communication	3
ENG 101	Beginning Composition	3
FYS 100	First Yr Sem Critical Thinking	3
UNI 100	Freshman First Class	1
	Credit Hours	**17-19**
Second Semester		
CHM 211	Principles of Chemistry I	3
CHM 217	Principles of Chem Lab I	2
MTH 122	Plane Trigonometry	3
ENG 201	Advanced Composition	3
Core II Social Science (CT)		3
	Credit Hours	**14**
Second Year		
First Semester		
EDF 201	Ed Psych Developing Learner	3
EDF 270	Level I Clinical Exp	0
MTH 140 or MTH 229	Applied Calculus or Calculus/Analytic Geom I (CT)	3
PHY 201	College Physics I	3
PHY 202	General Physics I Laboratory	1
Core II Fine Arts		3
Free Elective		3
	Credit Hours	**16**
Second Semester		
CI 345	Crit Read Writ & Think	3
CISP 421	Child with Exceptionalities	3
PHY 203	College Physics II	3
PHY 204	General Physics 2 Laboratory	1
Core II Humanities (ENG 200 level, WI)		3
Free Elective		3
	Credit Hours	**16**
Third Year		
First Semester		
CISP 422	Differentiate Instruction	3
PHY 320	Intro Modern Physics	3
PHY 421	Modern Physics Lab	2
PS 101	Introductory Astronomy (CT)	4
PHY/PS Elective		4
	Credit Hours	**16**
Second Semester		
CI 449	Instr & Clarm Mgt Sec Ed	3
PS 325	Dev Scientific Thought	4
Multicultural or International		3
Writing Intensive		3
Any PHY/PS Elective		3
	Credit Hours	**16**
Fourth Year		
First Semester		
CI 415	Int Meth & Mat: Sec Ed	3
CI 470	Level II Clinical Exp	0
EDF 435	Classroom Assessment	3
EDF 475	Schools in a Diverse Society	3
PHY 491	Capstone	2
Free Elective		2
	Credit Hours	**13**
Second Semester		
CI 450	Stu Teach Secondary Ed (Capstone)	12
	Credit Hours	**12**
	Total Credit Hours	**120-122**

Social Studies Education 5-9, B.A. (Second Specialization only)

Major

Code	Title	Credit Hours
Teaching Specialization		
ECN 200	Survey of Economics	3

GEO 100	Intro to Human Geography (CT)	3
GEO 203	Economic Geography (CT)	3
GEO 317	World Regional Geography	3
HST 101	Great Civs to 1300 (CT)	3
or HST 102	World & West 1300-1850 (CT)	
HST 103	The World Since 1850 (CT)	3
HST 208	The Developing World (CT)	3
HST 230	American History to 1877 (CT)	3
HST 231	American Hist From 1877 (CT)	3
HST 440	West Virginia History	3
PSC 104	Am Natl Govt & Politics (CT)	3
PSY 201	Introductory Psychology (CT)	3
SOC 200	Introductory Sociology (CT)	3
Professional Education Core		
CI 402	Teach Mid Child Learners	3
Student Teaching Capstone (full semester)		12
Total Credit Hours		**54**

Social Studies Education 5-Adult, B.A.

- General Education Course

- Milestone course: a key success marker for your major. See your advisor to discuss the importance of this course in your plan of study.

Major

The Core Curriculum is designed to foster critical thinking skills and introduce students to basic domains of thinking that transcend disciplines. The Core applies to all majors. Information on specific classes in the Core can be found at https://www.marshall.edu/gened/.

Code	Title	Credit Hours
Core Curriculum		
Core 1: Critical Thinking		
FYS 100	First Yr Sem Critical Thinking	3
HST 101	Great Civs to 1300 (CT)	3
HST 102	World & West 1300-1850 (CT)	3
Core 2		
ENG 101	Beginning Composition	3
ENG 201	Advanced Composition	3
CMM 103	Fund Speech-Communication	3
MTH 121	Concepts and Applications (CT)	3
Core II Natural Science		4
Core II Humanities (Any 200 level ENG Humanities and WI)		3
HST 230	American History to 1877 (CT) (Social Science)	3
Core II Fine Arts		3
Additional University Requirements		
Writing Intensive (Any 200 level ENG Humanities and WI)		3
CI 401	Middle Childhood Curric (Writing Intensive)	3
HST 101	Great Civs to 1300 (CT) (Multicultural or International)	3
CI 450	Stu Teach Secondary Ed	4-12
Teaching Specialization		
ECN 250	Principles Microeconomics	3
ECN 253	Principles Macroeconomics	3
GEO 100	Intro to Human Geography (CT)	3
GEO 203	Economic Geography (CT)	3
GEO 317	World Regional Geography	3
HST 101	Great Civs to 1300 (CT)	3
HST 102	World & West 1300-1850 (CT)	3
HST 103	The World Since 1850 (CT)	3
HST 208	The Developing World (CT)	3
HST 219	Ancient History	3
HST 230	American History to 1877 (CT)	3
HST 231	American Hist From 1877 (CT)	3
HST 440	West Virginia History	3
PSC 104	Am Natl Govt & Politics (CT)	3
PSY 201	Introductory Psychology (CT)	3
SOC 200	Introductory Sociology (CT)	3
Professional Education Core		
EDF 201	Ed Psych Developing Learner	3
EDF 270	Level I Clinical Exp	0
CISP 421	Child with Exceptionalities	3
EDF 435	Classroom Assessment	3
EDF 475	Schools in a Diverse Society	3
CI 345	Crit Read Writ & Think	3
CI 402	Teach Mid Child Learners	3
CI 449	Instr & Clarm Mgt Sec Ed	3
CISP 422	Differentiate Instruction	3
CI 415	Int Meth & Mat: Sec Ed	3
CI 470	Level II Clinical Exp	0
CI 450	Stu Teach Secondary Ed (Capstone)	12
Free Elective		3
Free Elective		1

Major Information

Admission Requirements for ADMI 4

1. Grade Point Average of 2.80 or higher (both MU and overall),
2. EDF 201 Ed Psych Developing Learner (grade "*C*" or better) and EDF 270 Level I Clinical Exp (credit),
3. Passing scores on the PRAXIS Core exam – all 3 areas OR exemption,
4. Portfolio in LiveText which includes:
   - Self-Assessment,
   - Writing Sample and
   - Three Recommendations,
5. 21 ACT composite score,
6. MU students: Completion of 26 credit hours,
7. Transfer students: Completion of 12 Marshall University credit hours.

Admission Requirements for ADMI 5

1. 12 hours of completed Professional Education Core courses,
2. 2.8 GPA overall, at MU, and in Teaching Specialization,
3. 3.0 GPA in Professional Education Core

Admission Requirements for Student Teaching

1. At least 90% of Teaching Specialization courses completed,
2. Minimum of 100 credit hours completed,
3. 2.8 GPA overall, at MU, and in Teaching Specialization,
4. 3.0 GPA in Professional Education Core,
5. Completion of all Professional Education Core Courses

- Many courses require clinical experience in public school during normal school hours. Schedule open time accordingly.
- **Students should monitor their program of study carefully due to ongoing curricular changes.**
- **All** coursework in Teaching Specialization and Professional Education Core must be completed with a grade of *C* or better.
- West Virginia law mandates that all persons entering a school or having contact with students must have completed a background check and have not been found on the sexual offender registry prior to entering a school. Each county and school can also use the results of that background check as a basis for admitting or denying admittance. It is the procedure of the Marshall University College of Education and Professional Development that every student will obtain a background check prior to being placed in a school setting.

- General Education Course

- Milestone course: a key success marker for your major. See your advisor to discuss the importance of this course in your plan of study.

Four Year Plan

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Course	Title	Credit Hours
First Year		
First Semester		
HST 101	Great Civs to 1300 (CT)	3
CMM 103	Fund Speech-Communication	3
ENG 101	Beginning Composition	3
FYS 100	First Yr Sem Critical Thinking	3
Core II Fine Arts		3
UNI 100	Freshman First Class	1
	Credit Hours	**16**
Second Semester		
ECN 250	Principles Microeconomics	3
GEO 100	Intro to Human Geography (CT)	3
HST 102	World & West 1300-1850 (CT)	3
MTH 121	Concepts and Applications (CT)	3
ENG 201	Advanced Composition	3
	Credit Hours	**15**
Second Year		
First Semester		
GEO 203	Economic Geography (CT)	3
HST 103	The World Since 1850 (CT)	3
HST 230	American History to 1877 (CT)	3
PSC 104	Am Natl Govt & Politics (CT)	3
SOC 200	Introductory Sociology (CT)	3
Free Elective		3
	Credit Hours	**18**
Second Semester		
ECN 253	Principles Macroeconomics	3
EDF 201	Ed Psych Developing Learner	3
EDF 270	Level I Clinical Exp	0
HST 219	Ancient History	3
Core II Humanities (ENG level 200, WI)		3
Core II Physical/Natural Science		4
	Credit Hours	**16**
Third Year		
First Semester		
CI 345	Crit Read Writ & Think	3
CISP 421	Child with Exceptionalities	3
GEO 317	World Regional Geography	3
PSY 201	Introductory Psychology (CT)	3
Free Elective		1
	Credit Hours	**13**
Second Semester		
CI 402	Teach Mid Child Learners	3
CI 449	Instr & Clarm Mgt Sec Ed	3
CISP 422	Differentiate Instruction	3
EDF 435	Classroom Assessment	3
HST 231	American Hist From 1877 (CT)	3
	Credit Hours	**15**
Fourth Year		
First Semester		
CI 415	Int Meth & Mat: Sec Ed	3
CI 470	Level II Clinical Exp	0
EDF 475	Schools in a Diverse Society	3
HST 208	The Developing World (CT)	3
HST 440	West Virginia History	3
Free Elective		3
	Credit Hours	**15**
Second Semester		
CI 450	Stu Teach Secondary Ed (Capstone)	12
	Credit Hours	**12**
	Total Credit Hours	**120**

Spanish Education 5-Adult, B.A.

Admission to this program is currently suspended.

Special Education Multi-Categorical 5-Adult, B.A. (Second Specialization only)

Major

Code	Title	Credit Hours
Teaching Specialization		
CI 342	Lit & Lang Arts Methods	3
CI 343	The Process of Reading Part I	3
CI 446	The Process of Reading Part II	3
CISP 320	Survey Exceptional Child	3
CISP 420	Survey Except Child II	3
CISP 438	Char/Behav Mild/Mod Disability	3
CISP 439	Assessment in Sp Ed	3
CISP 453	Curr Methods Mild to Moderate	3
Total Credit Hours		**24**

Special Education Multi-Categorical K-6, B.A. (Second Specialization only)

Major

Code	Title	Credit Hours
Teaching Specialization		
CISP 320	Survey Exceptional Child	3
CISP 420	Survey Except Child II	3
CISP 438	Char/Behav Mild/Mod Disability	3
CISP 439	Assessment in Sp Ed	3
CISP 453	Curr Methods Mild to Moderate	3
Total Credit Hours		**15**

Wellness Education PreK-Adult, B.A.

- General Education Course

- Milestone course: a key success marker for your major. See your advisor to discuss the importance of this course in your plan of study.

Major

The Core Curriculum is designed to foster critical thinking skills and introduce students to basic domains of thinking that transcend disciplines. The Core applies to all majors. Information on specific classes in the Core can be found at https://www.marshall.edu/gened/.

Code	Title	Credit Hours
Core Curriculum		
Core 1: Critical Thinking		
FYS 100	First Yr Sem Critical Thinking	3
MTH 121	Concepts and Applications (CT)	3
STHM 218	Sports in Society (CT) (Critical Thinking Course)	3
Core 2		
ENG 101	Beginning Composition	3
ENG 201	Advanced Composition	3
CMM 103	Fund Speech-Communication	3
MTH 121	Concepts and Applications (CT)	3
Core II Natural Science		4
Core II Humanities		3
Core II Social Science		3
Core II Fine Arts		3
Additional University Requirements		
Writing Intensive		3
Writing Intensive		3
Multicultural or International		3
CI 450	Stu Teach Secondary Ed (Capstone)	4-12
Teaching Specialization		
DTS 210	Nutrition	3
HS 201	Intro Appl Anat & Physiol	3
HS 220	Personal Health	3
HS 221	Personal Health II	3
HS 222	Hlth Prov First Aid/CPR/AED	3
WELL 325	School & Comm Health	3
HS 365	Functional Kinesiology	3
HS 369	Motor Learning	3
WELL 426	Curriculum in Health Ed	3
STHM 218	Sports in Society (CT)	3
ESS 211	Physiology of Fitness	3
WELL 305	HE & PE in Early Child Prog	3
WELL 350	Rhy & Movement Children	3
EDF 435	Classroom Assessment	3
PEL activity course		1
PEL activity course		1
PEL activity course		1
PEL activity course		1
PEL activity course		1
PEL activity course		1
Professional Education Core		
EDF 201	Ed Psych Developing Learner	3
EDF 270	Level I Clinical Exp	0
CISP 421	Child with Exceptionalities	3

EDF 435	Classroom Assessment	3
EDF 475	Schools in a Diverse Society	3
CI 345	Crit Read Writ & Think	3
CI 402	Teach Mid Child Learners	3
CI 449	Instr & Clarm Mgt Sec Ed	3
CISP 422	Differentiate Instruction	3
CI 415	Int Meth & Mat: Sec Ed	3
CI 470	Level II Clinical Exp	0
CI 450	Stu Teach Secondary Ed (Capstone)	12
Free Elective		1

Major Information

Admission Requirements for ADMI 4

1. Grade Point Average of 2.80 or higher (both MU and overall),
2. EDF 201 Ed Psych Developing Learner (grade "*C*" or better) and EDF 270 Level I Clinical Exp (credit),
3. Passing scores on the PRAXIS Core exam – all 3 areas OR exemption,
4. Portfolio in LiveText which includes:
   - Self-Assessment,
   - Writing Sample and
   - Three Recommendations,
5. 21 ACT composite score,
6. MU students: Completion of 26 credit hours,
7. Transfer students: Completion of 12 Marshall University credit hours.

Admission Requirements for ADMI 5

1. 12 hours of completed Professional Education Core courses,
2. 2.8 GPA overall, at MU, and in Teaching Specialization,
3. 3.0 GPA in Professional Education Core

Admission Requirements for Student Teaching

1. At least 90% of Teaching Specialization courses completed,
2. Minimum of 100 credit hours completed,
3. 2.8 GPA overall, at MU, and in Teaching Specialization,
4. 3.0 GPA in Professional Education Core,
5. Completion of all Professional Education Core Courses

- Many courses require clinical experience in public school during normal school hours. Schedule open time accordingly.
- **Students should monitor their program of study carefully due to ongoing curricular changes.**
- **All** coursework in Teaching Specialization and Professional Education Core must be completed with a grade of *C* or better.
- West Virginia law mandates that all persons entering a school or having contact with students must have completed a background check and have not been found on the sexual offender registry prior to entering a school. Each county and school can also use the results of that background check as a basis for admitting or denying admittance. It is the procedure of the Marshall University College of Education and Professional Development that every student will obtain a background check prior to being placed in a school setting.

- General Education Course

- Milestone course: a key success marker for your major. See your advisor to discuss the importance of this course in your plan of study.

Four Year Plan

The College of Education and Professional Development has the distinction of being the oldest part of Marshall University. The CIF (Curriculum, Instruction, & Foundations) program includes elementary, secondary, educational foundations, and educational computing for pre-service teachers. The secondary programs are designed for those wanting to teach content to middle school and/or high school students. The educational foundations and computing courses are designed for those entering the education field. Students receive broad content knowledge in the core academic area of choice as well as in the art and science of teaching children.

Course	Title	Credit Hours
First Year		
First Semester		
HS 222	Hlth Prov First Aid/CPR/AED	3
CMM 103	Fund Speech-Communication	3
ENG 101	Beginning Composition	3
FYS 100	First Yr Sem Critical Thinking	3
PEL activity course		1
Core II Fine Arts		3
UNI 100	Freshman First Class	1
	Credit Hours	**17**
Second Semester		
ESS 211	Physiology of Fitness	3
MTH 121	Concepts and Applications (CT)	3
ENG 201	Advanced Composition	3
Core II Social Science (M/I, WI)		3
PEL activity course		1
Free Elective		1
	Credit Hours	**14**
Second Year		
First Semester		
DTS 210	Nutrition	3
STHM 218	Sports in Society (CT)	3
HS 201	Intro Appl Anat & Physiol	3
PEL activity course		1
PEL activity course		1
PEL activity course		1
Free Elective		3
	Credit Hours	**15**
Second Semester		
CISP 421	Child with Exceptionalities	3
EDF 201	Ed Psych Developing Learner	3
EDF 270	Level I Clinical Exp	0
WELL 305	HE & PE in Early Child Prog	3
HS 365	Functional Kinesiology	3
PEL activity course		1
Core II Humanities (ENG level 200, WI)		3
	Credit Hours	**16**

Third Year		
First Semester		
CI 345	Crit Read Writ & Think	3
CI 402	Teach Mid Child Learners	3
WELL 350	Rhy & Movement Children	3
HS 220	Personal Health	3
Core II Physical/Natural Science		4
	Credit Hours	**16**
Second Semester		
CI 449	Instr & Clarm Mgt Sec Ed	3
EDF 435	Classroom Assessment	3
HS 221	Personal Health II	3
WELL 325	School & Comm Health	3
HS 369	Motor Learning	3
	Credit Hours	**15**
Fourth Year		
First Semester		
CI 415	Int Meth & Mat: Sec Ed	3
CI 470	Level II Clinical Exp	0
CISP 422	Differentiate Instruction	3
EDF 475	Schools in a Diverse Society	3
EDF 435	Classroom Assessment	3
WELL 426	Curriculum in Health Ed	3
	Credit Hours	**15**
Second Semester		
CI 450	Stu Teach Secondary Ed (Capstone)	12
	Credit Hours	**12**
	Total Credit Hours	**120**

Early Childhood Education

Contacts: Dr. Teresa Eagle, Dean; Dr. Thelma (Sissy) Isaacs, Associate Dean; Dr. Sandra Stroebel, Associate Dean
Website: http://www.marshall.edu/coepd (http://www.marshall.edu/coepd/)

Programs

- Early Childhood Education, B.A. (p. 445)
- Early Education PK-K, B.A. (Second specialization only) (p. 447)

Courses

- General Education Course

Curriculum & Instruction

CI 100 Critical Thinking in Educ (CT) **3 Credit hours**
An introduction to the critical thinking skills in education, an orientation of the teaching profession, and an overview of the historical, sociological, multicultural, and philosophical issues affecting schools and teachers. An introduction to the critical thinking skills in education, an orientation of the teaching profession, and an overview of the historical, sociological, multicultural, and philosophical issues affecting schools and teachers.
Attributes: Critical Thinking
Grade Mode: Normal Grading Mode

CI 101 Math for Elem Teachers I **3 Credit hours**
The study of the foundations of elementary mathematics including numeration systems, number theory, and consumer mathematics with emphasis on problem solving and teaching strategies.
Pre-req: MTH 130 with a minimum grade of D or MTH 130H with a minimum grade of D or MTH 127 with a minimum grade of D.
Grade Mode: Normal Grading Mode

CI 102 Intro Comp in Classroom **1 Credit hour**
The introduction of selection and evaluation techniques of computer courseware and hardware for classrooms K-12 with consideration for CAI, CMI and specific skills for K-12 students. The introduction of selection and evaluation techniques of computer courseware and hardware for classrooms K-12 with consideration for CAI, CMI and specific skills for K-12 students.
Grade Mode: Normal Grading Mode

CI 201 Math for Elem Teachers II **3 Credit hours**
Study of elementary mathematics including structure of the real number system, statistics, probability, informal and transformational geometry, and basic algebraic operations with emphasis on problem solving and teaching strategies. Study of elementary mathematics including structure of the real number system, statistics, probability, informal and transformational geometry, and basic algebraic operations with emphasis on problem solving and teaching strategies.
Pre-req: CI 101 with a minimum grade of C and (MTH 127 with a minimum grade of D or MTH 130 with a minimum grade of D).
Grade Mode: Normal Grading Mode

CI 248 Intro to Science Elem Ed **4 Credit hours**
Introduction to teaching science in elementary schools emphasizing inquiry-based science and engineering practices utilizing effective research-based teaching strategies including seminars, discussions and investigations.
Pre-req: MTH 127 with a minimum grade of D or MTH 130 with a minimum grade of D.
Grade Mode: Normal Grading Mode

CI 280 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

CI 281 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

CI 282 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

CI 283 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

CI 298 Itv **1-4 Credit hours**
A course based upon an Instructional Television Series broadcast by public television. The student is responsible for viewing the series on the air and satisfying all course requirements announced by the division. A course based upon an Instructional Television Series broadcast by public television. The student is responsible for viewing the series on the air and satisfying all course requirements announced by the division.
Grade Mode: Normal Grading Mode

CI 301 Teach Elem/Middle Mathematics **3 Credit hours**
This course is an investigation of techniques and approaches to helping children learn mathematics with special emphasis on the use of manipulative materials in a laboratory setting.
Pre-req: CI 201 with a minimum grade of C and Admitted to Teacher ED with a score of 4.
Grade Mode: Normal Grading Mode

CI 321 ECE Curr and Methods **3 Credit hours**
Study of factors shaping curriculum and exploration and assessment of appropriate curriculum for young children in transition from pre-operational to concrete operational stages of development. Field experience included. Study of factors shaping curriculum and exploration and assessment of appropriate curriculum for young children in transition from pre-operational to concrete operational stages of development. Field experience included.
Pre-req: Admitted to Teacher ED with a score of 4.
Grade Mode: Normal Grading Mode

CI 342 Lit & Lang Arts Methods **3 Credit hours**
A study of literary genres' characteristics and implementation within the elementary classroom, with emphasis on methods of presentation and a review of English grammar and language.
Grade Mode: Normal Grading Mode

CI 343 The Process of Reading Part I **3 Credit hours**
Study of modern techniques and practices in the teaching and assessment of reading and language arts: Part 1
Pre-req: CI 342 with a minimum grade of C.
Grade Mode: Normal Grading Mode

CI 345 Crit Read Writ & Think **3 Credit hours**
This course examines strategies for learning from text, studying different types of textual material, monitoring learning, and integrating oral and written discourse. This course examines strategies for learning from text, studying different types of textual material, monitoring learning, and integrating oral and written discourse.
Pre-req: Admitted to Teacher ED with a score of 4.
Grade Mode: Normal Grading Mode

CI 348 Phy Sci & Engr for Elem Ed **4 Credit hours**
General elementary education course with emphasis on Next Generation Science standards, methods, and content for Physical Science and Engineering practices.
Pre-req: MTH 130 with a minimum grade of D or MTH 127 with a minimum grade of D.
Grade Mode: Normal Grading Mode

CI 350 Inst Tech & Computing **3 Credit hours**
Critical examination and skill development using commercial, non-commercial, and computer generated media. Emphasis will be placed on its application to teaching and learning.
Grade Mode: Normal Grading Mode

CI 360 Social Studies Methods Elem **3 Credit hours**
An introduction to materials and methods for teaching social studies in the elementary school including goals, processes, strategies, and evaluation. An introduction to materials and methods for teaching social studies in the elementary school - including goals, pro- cesses, strategies, and evaluation.
Pre-req: Admitted to Teacher ED with a score of 4.
Grade Mode: Normal Grading Mode

CI 367 Org for Inst in ECE **3 Credit hours**
An overview of the development of early childhood education related research, pre-primary program models, elementary school organizational patterns, program planning and techniques of working with parents. An overview of the development of early childhood educa- tion related research, pre-primary program models, elementary school organizational patterns, program planning and techniques of working with parents.
Grade Mode: Normal Grading Mode

CI 401 Middle Childhood Curric **3 Credit hours**
Study of procedures for creating a functional middle childhood curriculum with emphasis upon the needs of transecents. Study of procedures for creating a functional middle child- hood curriculum with emphasis upon the needs of transecents.
Pre-req: Admitted to Teacher ED with a score of 4.
Grade Mode: Normal Grading Mode

CI 402 Teach Mid Child Learners **3 Credit hours**
The study of methods appropriate for teaching in the middle childhood grades and the production and utilization of materials and resources based upon the needs of middle childhood learners.
Pre-req: Admitted to Teacher ED with a score of 4.
Grade Mode: Normal Grading Mode

CI 403 Meth Teach Mid Child Grd **3 Credit hours**
Study of methods appropriate for teaching in the middle childhood grades, and production and utilization of materials and resources in these grades. Middle school clinical experience is required.
Pre-req: Admitted to Teacher ED with a score of 4 and CI 401 with a minimum grade of C.
Grade Mode: Normal Grading Mode

CI 405 Student Teaching-Elem Ed **4-12 Credit hours**
All-day teaching under supervision in cooperating schools; periodic seminars, conducted by University faculty, accompany student teaching. All-day teaching under supervision in cooperating schools; periodic seminars, conducted by University faculty, accompany student teaching.
Attributes: Capstone Course
Grade Mode: Credit/No Credit Grade Only

CI 406 Student Teaching II Elem Ed **4-6 Credit hours**
Supervised student teaching (4-6 hrs). All-day teaching under supervision in cooperating schools. Periodic semiars conducted by university faculty accompany student teaching. Prerequisites: Methods and permission.
Attributes: Capstone Course
Grade Mode: Credit/No Credit Grade Only

CI 410 Stu Teach-Early Childhood **4-6 Credit hours**
All-day kindergarten teaching under supervision in cooperating schools; periodic seminars, conducted by University faculty, accompany student teaching. All-day kindergarten teaching under supervision in co- operating schools; periodic seminars, conducted by University faculty, accompany student teaching.
Attributes: Capstone Course
Grade Mode: Credit/No Credit Grade Only

CI 415 Int Meth & Mat: Sec Ed **3 Credit hours**
General secondary/middle school course with emphasis on instructional standards and objectives, methods, and materials of the disciplines. A clinical experience provides observation and teaching. General secondary/middle school course with emphasis on instructional standards and objectives, methods, and materials of the disciplines. A clinical experience provides observation and teaching.
Pre-req: Admitted to Teacher ED with a score of 5.
Co-req: CI 470
Grade Mode: Normal Grading Mode

CI 427 Introduction To Autism **3 Credit hours**
This is a lecture-discussion course designed to survey current autism definitions, rates of incidence, conceptual models, and educational designs relating to autistic children, youth, and adults. This is a lecture-discussion course designed to survey current autism definitions, rates of incidence, conceptual models, and educational designs relating to autistic children, youth, and adults.
Grade Mode: Normal Grading Mode

CI 442 Instr & Clrm Mgt in Elem Ed **3 Credit hours**
This course allows elementary education students to critically examine a variety of classroom management strategies and educational issues that impact instruction. PR: Full admission to the Teacher Education Program This course allows elementary education students to critically examine a variety of classroom management strategies and educational issues that impact instruction. PR: Full admission to the Teacher Education Program
Pre-req: Admitted to Teacher ED with a score of 4.
Grade Mode: Normal Grading Mode

CI 446 The Process of Reading Part II **3 Credit hours**
Study of modern techniques and practices in the teaching and assessment of reading and language arts: Part 2
Pre-req: CI 342 with a minimum grade of C.
Grade Mode: Normal Grading Mode

CI 447 Inte Read/Lang Arts: Elem Edu **3 Credit hours**
General K-6 course with emphasis on instructional standards and objectives, methods, and materials for Reading, Language Arts and Social Studies. General K-6 course with emphasis on instructional standards and objectives, methods, and materials for Reading, Language Arts and Social Studies.
Pre-req: Admitted to Teacher ED with a score of 5 and CI 343 with a minimum grade of C and CI 446 with a minimum grade of C.
Co-req: CI 471
Grade Mode: Normal Grading Mode

CI 448 Science Methods: Elem Edu **3 Credit hours**
General K-6 course with emphasis on instructional standards and objectives, methods and materials for mathematics and science. General K-6 course with emphasis on instructional standards and objectives, methods and materials for mathematics and science.
Pre-req: CI 201 with a minimum grade of C and Admitted to Teacher ED with a score of 4 and BSC 105 with a minimum grade of C and CI 248 with a minimum grade of C.
Grade Mode: Normal Grading Mode

CI 449 Instr & Clarm Mgt Sec Ed **3 Credit hours**
Classroom management with emphasis on practical techniques for dealing with management problems in secondary and middle school settings. Classroom management with emphasis on practical techniques for dealing with management problems in secondary and middle school settings.
Pre-req: Admitted to Teacher ED with a score of 4.
Grade Mode: Normal Grading Mode

CI 450 Stu Teach Secondary Ed **4-12 Credit hours**
All-day teaching under supervision in cooperating schools; periodic seminars conducted by University faculty accompany student teaching. All-day teaching under supervision in cooperating schools; periodic seminars conducted by University faculty accompany student teaching.
Attributes: Capstone Course
Grade Mode: Credit/No Credit Grade Only

CI 452 Mce: Supervised Stu Teach **4-6 Credit hours**
All-day student teaching in cooperating middle schools; periodic seminars conducted by University faculty accompany student teaching. All-day student teaching in cooperating middle schools; periodic seminars conducted by University faculty accompany student teaching.
Attributes: Capstone Course
Grade Mode: Credit/No Credit Grade Only

CI 455 Student Teaching II Sec Ed **4-6 Credit hours**
Supervised student teaching (4-6 hrs). All-day teaching under supervision in cooperating schools. Periodic seminars conducted by university faculty accompany student teaching. Prerequisites: Methods and permission.
Attributes: Capstone Course
Grade Mode: Credit/No Credit Grade Only

CI 459 Multicult Influence in Ed **3 Credit hours**
Multicultural education with an emphasis on methods and materials for teaching students from diverse cultural backgrounds. Multicultural education with an emphasis on methods and materials for teaching students from diverse cultural backgrounds.
Attributes: Multicultural
Grade Mode: Normal Grading Mode

CI 460 Staff Development **1-3 Credit hours**
Attributes: Not Degree Applicable
Grade Mode: Credit/No Credit Grade Only

CI 461 Staff Development **1-3 Credit hours**
Attributes: Not Degree Applicable
Grade Mode: Credit/No Credit Grade Only

CI 462 Staff Development **1-3 Credit hours**
Attributes: Not Degree Applicable
Grade Mode: Credit/No Credit Grade Only

CI 463 Staff Development **1-3 Credit hours**
Attributes: Not Degree Applicable
Grade Mode: Credit/No Credit Grade Only

CI 464 Staff Development **1-3 Credit hours**
Attributes: Not Degree Applicable
Grade Mode: Credit/No Credit Grade Only

CI 470 Level II Clinical Exp **0 Credit hours**
A Level II Clinical Experience teaching in an elementary or secondary public school. An opportunity to put theory into classroom practice. A Level II Clinical Experience teaching in an elementary or secondary public school. An opportunity to put theory into classroom practice.
Pre-req: Admitted to Teacher ED with a score of 5.
Co-req: CI 415
Grade Mode: Credit/No Credit Grade Only

CI 471 Level II Clinical Exp **0 Credit hours**
A Level II Clinical Experience teaching in an elementary school. An opportunity to put theory into classroom practice. A Level II Clinical Experience teaching in an elementary school. An opportunity to put theory into classroom practice.
Pre-req: Admitted to Teacher ED with a score of 5.
Co-req: CI 447
Grade Mode: Credit/No Credit Grade Only

CI 472 Level II Clinical Exp **0 Credit hours**
A Level II Clinical Experience teaching in an elementary or secondary public school. An opportunity to put theory into classroom practice.
A Level II Clinical Experience teaching in an elementary or secondary public school. An opportunity to put theory into classroom practice.
Pre-req: Admitted to Teacher ED with a score of 5.
Grade Mode: Credit/No Credit Grade Only

CI 480 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

CI 481 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

CI 482 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

CI 483 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

CI 485 Independent Study **1-4 Credit hours**
Grade Mode: Normal Grading Mode

CI 486 Independent Study **1-4 Credit hours**
Grade Mode: Normal Grading Mode

CI 487 Independent Study **1-4 Credit hours**
Grade Mode: Normal Grading Mode

CI 488 Independent Study **1-4 Credit hours**
Grade Mode: Normal Grading Mode

Curriculum Instruction Special Education

CISP 101 American Sign Language I **3 Credit hours**
This is the first of 4 courses in American Sign Language. This course emphasizes the learning of basic survival conversational signing skills, including use of all ASL grammatical structures.
Grade Mode: Normal Grading Mode

CISP 102 American Sign Language II **3 Credit hours**
This is the second of 4 courses in American Sign Language. This course emphasizes the learning of intermediate conversational signing skills, including use of all ASL grammatical structures.
Pre-req: CISP 101 with a minimum grade of D.
Grade Mode: Normal Grading Mode

CISP 203 American Sign Language III **3 Credit hours**
This is the third of 4 courses in American Sign Language. This course emphasizes the learning of advanced conversational signing skills, including use of all ASL grammatical structures.
Pre-req: CISP 101 with a minimum grade of D and CISP 102 with a minimum grade of D.
Grade Mode: Normal Grading Mode

CISP 204 American Sign Language IV **3 Credit hours**
This is the fourth of 4 courses in American Sign Language. This course emphasizes the learning of complex conversational signing skills, including use of all ASL grammatical structures.
Pre-req: CISP 101 with a minimum grade of D and CISP 102 with a minimum grade of D and CISP 203 with a minimum grade of D.
Grade Mode: Normal Grading Mode

CISP 320 Survey Exceptional Child **3 Credit hours**
An introduction to the study of children who deviate from the average in mental, physical, and emotional characteristics, including a study of the characteristics of such children and the adaptation of educational procedures to their abilities and disabilities.
Pre-req: CISP 420 (may be taken concurrently) with a minimum grade of C.
Concurrent PR: CISP 420
Grade Mode: Normal Grading Mode

CISP 420 Survey Except Child II **3 Credit hours**
Examination of procedures needed for implementation of the Resource Room model for mildly handicapped children. The course includes a review of the Mainstreaming movement, interpersonal relations, and skills necessary for maintaining the resource room.
Pre-req: CISP 320 (may be taken concurrently) with a minimum grade of C.
Concurrent PR: CISP 320
Grade Mode: Normal Grading Mode

CISP 421 Child with Exceptionalities **3 Credit hours**
Behavioral characteristics of children with exceptional development, dynamics of family- community interaction, and attitudes towards exceptional conditions. Implications for amelioration and educational planning.
Grade Mode: Normal Grading Mode

CISP 422 Differentiate Instruction **3 Credit hours**
Research-based strategies for providing differentiated instruction to students with diverse learning, social, and behavioral needs who are being educated in inclusive settings.
Pre-req: CISP 421 with a minimum grade of C.
Grade Mode: Normal Grading Mode

CISP 423 Sp Ed Learning Disability **3 Credit hours**
Grade Mode: Normal Grading Mode

CISP 424 Sp Ed Emotional Disturb **3 Credit hours**
Grade Mode: Normal Grading Mode

CISP 427 Introduction to Autism **3 Credit hours**
This course is designed to survey current issues in education and the treatment of students with autism spectrum disorder (ASD).
Grade Mode: Normal Grading Mode

CISP 428 Special Needs in Erly Child Ed **3 Credit hours**
Emphasis will be given to enhancing the success of diverse learners through intervention strategies, family involvement and interdisciplinary service delivery. Emphasis will be given to enhancing the success of diverse learners through intervention strategies, family involvement and interdisciplinary service delivery.
Pre-req: Admitted to Teacher ED with a score of 4 and CISP 421 with a minimum grade of C or (CISP 320 with a minimum grade of C and CISP 420 with a minimum grade of C).
Grade Mode: Normal Grading Mode

CISP 429 Intro Developmental Disability **3 Credit hours**
Introduction to the characteristics and needs of young children with developmental disabilities addressing the physical, neurological, health , and environmental problems that impact atypical growth and development (PR: CISP 320, CR: Field Experience)
Pre-req: Admitted to Teacher ED with a score of 4 and CISP 420 with a minimum grade of C.
Grade Mode: Normal Grading Mode

CISP 433 Intro Intellect Disabilities **3 Credit hours**
Characteristics and needs of individuals with intellectual disabilites. Current research, etiologic factors and the impact of intellectual disabilities on education are emphasized. Includes a field experience. (PR: CISP 320)
Pre-req: Admitted to Teacher ED with a score of 4 and CISP 420.
Grade Mode: Normal Grading Mode

CISP 434 Sp Ed St Tch Phys Handicap **4-6 Credit hours**
Grade Mode: Credit/No Credit Grade Only

CISP 435 Gen Spec Ed Programming **3 Credit hours**
Pre-req: Admitted to Teacher ED with a score of 4 and CISP 420.
Grade Mode: Normal Grading Mode

CISP 438 Char/Behav Mild/Mod Disability **3 Credit hours**
An introduction to positive behavior supports at the school, classroom, and individual level to improve student behavior and academic engagement.
Pre-req: CISP 320 and CISP 420.
Grade Mode: Normal Grading Mode

CISP 439 Assessment in Sp Ed **3 Credit hours**
Pre-req: Admitted to Teacher ED with a score of 4 and CISP 420.
Grade Mode: Normal Grading Mode

CISP 440 Stu Teach Multicategorical **4-6 Credit hours**
Attributes: Capstone Course
Grade Mode: Credit/No Credit Grade Only

CISP 445 Intervent Preschool Sp Ed **3 Credit hours**
Curriculum development and methodology used to teach young children with special needs. Integration, program development, management, material and equipment adaptation are emphasized.
Pre-req: CISP 428 with a minimum grade of D.
Grade Mode: Normal Grading Mode

CISP 453 Curr Methods Mild to Moderate **3 Credit hours**
Principals and current trends in curriculum development and teaching methodology for individuals with mild to moderate disabilities are reviewed and evaluated (PR: CISP 320, CISP 420)
Pre-req: Admitted to Teacher ED with a score of 4 and CISP 320.
Grade Mode: Normal Grading Mode

CISP 454 Families of Except Students **3 Credit hours**
Principles and information designed to give the student an understanding of the needs and rights of families of exceptional children and techniques to involve families successfully in their children's education.
Grade Mode: Normal Grading Mode

CISP 455 Field Exp Preschool Sp Ed **3 Credit hours**
Supervised participation and directed teaching activities in a preschool special education program.
Pre-req: CISP 445 with a minimum grade of C.
Grade Mode: Normal Grading Mode

CISP 461 Staff Development **1-4 Credit hours**
Attributes: Not Degree Applicable
Grade Mode: Credit/No Credit Grade Only

CISP 462 Staff Development **1-4 Credit hours**
Attributes: Not Degree Applicable
Grade Mode: Credit/No Credit Grade Only

CISP 480 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

Early Childhood Education

ECE 101 Early Childhood Wellbeing **3 Credit hours**
An introduction to the basic requirements and regulations for health and safety in early childhood programs serving children from birth to age eight. An introduction to the basic requirements and regulations for health and safety in early childhood programs serving children from birth to age eight.
Grade Mode: Normal Grading Mode

ECE 102 Early Childhood Programs (CT) **3 Credit hours**
A critical analysis of the historical, philosophical, political, social, and theoretical foundations of early childhood programs with specific attention to current programs serving children prior to school entry. 3 CR. A critical analysis of the historical, philosophical, political, social, and theoretical foundations of early childhood programs with specific attention to current programs serving children prior to school entry. 3 CR.
Attributes: Critical Thinking
Grade Mode: Normal Grading Mode

ECE 201 Early Education Tech **3 Credit hours**
Application of technology in the teaching and administration of early childhood education programs.
Grade Mode: Normal Grading Mode

ECE 204 Parenting **3 Credit hours**
This course examines parenting from a socio-cultural and developmental perspective using a systems model. This course examines parenting from a socio-cultural and developmental perspective using a systems model.
Grade Mode: Normal Grading Mode

ECE 215 Family Relationships **3 Credit hours**
Relationships in the family during its life cycle, with some consideration of family life in other cultures. Relationships in the family during its life cycle, with some consideration of family life in other cultures.
Grade Mode: Normal Grading Mode

ECE 303 Child Development **3 Credit hours**
Care and guidance of young children through five years in relation to their physical, emotional, mental and social development. Observation and participation in nursery school required. Care and guidance of young children through five years in relation to their physical, emotional, mental and social development. Observation and participation in nursery school required.
Grade Mode: Normal Grading Mode

ECE 322 Language & Literacy **3 Credit hours**
Provide pre-service teachers with an overview of the emergent nature of the development of language and literacy in the young child in a context that is developmentally and culturally appropriate.
Pre-req: ECE 303 with a minimum grade of C.
Grade Mode: Normal Grading Mode

ECE 323 Assess Early Childhood **3 Credit hours**
Realistic and practical guidance in providing learning experiences for children from diverse cultural backgrounds based upon authentic assessment practices. Realistic and practical guidance in providing learning experiences for children from diverse cultural backgrounds based upon authentic assessment practices.
Pre-req: ECE 303 with a minimum grade of C.
Grade Mode: Normal Grading Mode

ECE 324 Early Childhood Sci/Math **3 Credit hours**
Strategies for integrating math, science and technology in early childhood curriculum with focus on inquiry approaches. Strategies for integrating math, science and technology in early childhood curriculum with focus on inquiry approaches.
Pre-req: ECE 303 with a minimum grade of C.
Grade Mode: Normal Grading Mode

ECE 325 Play and Creativity **3 Credit hours**
Exploration of the multiple ways children and adults express their thoughts and represent their environment and experiences.
Pre-req: ECE 303 with a minimum grade of C.
Grade Mode: Normal Grading Mode

ECE 420 Infant/Toddler Environs & Rela **3 Credit hours**
Creation of developmentally supportive environments for infants and toddlers in group settings with emphasis on establishing nurturing relationships. Creation of developmentally supportive environments for infants and toddlers in group settings with emphasis on establishing nurturing relationships.
Pre-req: ECE 303 with a minimum grade of D.
Grade Mode: Normal Grading Mode

ECE 421 Infant/Toddler Ed Practicum **3 Credit hours**
Practice in planning and leading an infant/toddler group with emphasis on environments and relationships that provide supportive nurturance and education for the babies and their parents. Practice in planning and leading an infant/toddler group with emphasis on environments and relationships that provide supportive nurturance and education for the babies and their parents.
Pre-req: ECE 420 (may be taken concurrently) with a minimum grade of C and Admitted to Teacher ED with a score of 4.
Concurrent PR: ECE 420
Grade Mode: Normal Grading Mode

ECE 430 Preschool Curr and Methods **3 Credit hours**
Historical and contemporary curriculum and methods for preschool children with emphasis on current best practices. Historical and contemporary curriculum and methods for preschool children with emphasis on current best practices.
Pre-req: ECE 303 with a minimum grade of D.
Grade Mode: Normal Grading Mode

ECE 431 Guid Young Child Pract **3 Credit hours**
Techniques of guidance of young children with emphasis on adult-child interaction. Participation in laboratory preschool required. Techniques of guidance of young children with emphasis on adult-child interaction. Participation in laboratory preschool required.
Pre-req: Admitted to Teacher ED with a score of 4 and ECE 303 with a minimum grade of C.
Grade Mode: Normal Grading Mode

ECE 435 Admin Early Child Program **3 Credit hours**
Instruction and practice in the development of day centers for three and four year old children and administration of programs in these centers. Laboratory participation required. Instruction and practice in the development of day centers for three and four year old children and administration of programs in these centers. Laboratory participation required.
Pre-req: ECE 303 with a minimum grade of D.
Grade Mode: Normal Grading Mode

ECE 472 Early Childhood Capstone **3 Credit hours**
Application of ECE content knowledge in the management of early childhood programs: senior level capstone. Premission required.
Attributes: Capstone Course
Grade Mode: Normal Grading Mode

ECE 485 Independent Study **1-4 Credit hours**
Permission of the coordinator. Requires 2.5 GPA, limit of 6 hours to be used in professional education as a specialization. Permission of the coordinator. Requires 2.5 GPA, limit of 6 hours to be used in professional education as a specialization.
Grade Mode: Normal Grading Mode

ECE 486 Independent Study **1-4 Credit hours**
Permission of the coordinator. Requires 2.5 GPA, limit of 6 hours to be used in professional education as a specialization. Permission of the coordinator. Requires 2.5 GPA, limit of 6 hours to be used in professional education as a specialization.
Grade Mode: Normal Grading Mode

ECE 487 Independent Study **1-4 Credit hours**
Permission of the coordinator. Requires 2.5 GPA, limit of 6 hours to be used in professional education as a specialization. Permission of the coordinator. Requires 2.5 GPA, limit of 6 hours to be used in professional education as a specialization.
Grade Mode: Normal Grading Mode

ECE 488 Independent Study **1-4 Credit hours**
Permission of the coordinator. Requires 2.5 GPA, limit of 6 hours to be used in professional education as a specialization. Permission of the coordinator. Requires 2.5 GPA, limit of 6 hours to be used in professional education as a specialization.
Grade Mode: Normal Grading Mode

Educational Foundations

EDF 201 Ed Psych Developing Learner **3 Credit hours**
A study of the psychological principles for learning and teaching based on children's emotional, social, cognitive, and physical development.
Grade Mode: Normal Grading Mode

EDF 218 Child/Adol Dev in Schools **3 Credit hours**
A basic course in the study of children's emotional, social, mental, and physical development. Field experience required. A basic course in the study of children's emotional, social, mental, and physical development. Field experience required.
Co-req: EDF 270
Grade Mode: Normal Grading Mode

EDF 270 Level I Clinical Exp **0 Credit hours**
A public school Clinical Experience in an elementary school. An opportunity to work with faculty, staff, and students in a teaching/learning environment. A public school Clinical Experience in an elementary school. An opportunity to work with faculty, staff, and students in a teaching/learning environment.
Grade Mode: Credit/No Credit Grade Only

EDF 271 Level I Clinical Exp **0 Credit hours**
A public school Clinical Experience in an elementary public school. An opportunity to work with faculty, staff, and students in a teaching/learning environment. A public school Clinical Experience in an elementary public school. An opportunity to work with faculty, staff, and students in a teaching/learning environment.
Co-req: EDF 218
Grade Mode: Normal Grading Mode

EDF 272 Level I Clinical Exp **0 Credit hours**
A public school Clinical Experience in an elementary public school. An opportunity to work with faculty, staff, and students in a teaching/learning environment. A public school Clinical Experience in an elementary public school. An opportunity to work with faculty, staff, and students in a teaching/learning environment.
Co-req: EDF 218
Grade Mode: Normal Grading Mode

EDF 280 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

EDF 281 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

EDF 282 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

EDF 283 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

EDF 319 Applications Learning Theory **3 Credit hours**
A study of the psychological principles which are the foundation for learning and teaching. A study of the psychological principles which are the foundation for learning and teaching.
Pre-req: Admitted to Teacher ED with a score of 4.
Grade Mode: Normal Grading Mode

EDF 406 Foundations of Education **3 Credit hours**
A survey of the historical, philosophical and sociological foundations of American education with emphasis upon current educational problems and issues. A survey of the historical, philosophical and sociological foundations of American education with emphasis upon current educational problems and issues.
Pre-req: EDF 319.
Grade Mode: Normal Grading Mode

EDF 417 Statistical Methods **3 Credit hours**
A foundation course in descriptive and inferential statistics as applied in education and the social sciences. A foundation course in descriptive and inferential statistics as applied in education and the social sciences.
Attributes: Statistics
Grade Mode: Normal Grading Mode

EDF 435 Classroom Assessment **3 Credit hours**
History, philosophy and elementary statistical methods for testing, measuring and evaluating pupil behavior are studied. History, philosophy and elementary statistical methods for testing, measuring and evaluating pupil behavior are studied.
Pre-req: Admitted to Teacher ED with a score of 4 and EDF 201 with a minimum grade of C.
Grade Mode: Normal Grading Mode

EDF 475 Schools in a Diverse Society **3 Credit hours**
Study of social, historical and philosophical foundations of U.S. schooling. Study of social, historical and philosophical foundations of U.S. schooling.
Pre-req: Admitted to Teacher ED with a score of 4.
Grade Mode: Normal Grading Mode

EDF 480 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

EDF 481 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

EDF 482 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

EDF 483 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

EDF 485 Independent Study **1-4 Credit hours**
Grade Mode: Normal Grading Mode

EDF 486 Independent Study **1-4 Credit hours**
Grade Mode: Normal Grading Mode

EDF 487 Independent Study **1-4 Credit hours**
Grade Mode: Normal Grading Mode

EDF 488 Independent Study **1-4 Credit hours**
Grade Mode: Normal Grading Mode

Early Childhood Education, B.A.

Overview

The B.A. in Early Childhood Education prepares individuals who will teach or be administrators in schools or centers who serve children from birth to five, or any part of that age group. The program includes preparation for working with children who have special needs. Students have clinical experiences in public schools, as well as in private centers, resulting in experiences at all ages covered by the program. Graduates of the program have a range of opportunities in classroom settings and in supervisory roles.

- General Education Course

- Milestone course: a key success marker for your major. See your advisor to discuss the importance of this course in your plan of study.

Major

The Core Curriculum is designed to foster critical thinking skills and introduce students to basic domains of thinking that transcend disciplines. The Core applies to all majors. Information on specific classes in the Core can be found at https://www.marshall.edu/gened/.

Code	Title	Credit Hours
Core Curriculum		
Core 1: Critical Thinking		
FYS 100	First Yr Sem Critical Thinking	3
PSY 201	Introductory Psychology (CT)	3
ECE 102	Early Childhood Programs (CT)	3
Core 2		
ENG 101	Beginning Composition	3
ENG 201	Advanced Composition	3
CMM 103	Fund Speech-Communication	3
MTH 127	College Algebra-Expanded	3-5
or MTH 130	College Algebra	
Core II Humanities		3
Core II Physical or Natural Science		4
Core II Fine Arts		3
PSY 201	Introductory Psychology (CT)	3
Additional University Requirements		
Writing Intensive		3

ECE 303	Child Development (Writing Intensive) (with a grade "C" or better)	3
CI 459	Multicult Influence in Ed (Multicultural or International)	3
CISP 455	Field Exp Preschool Sp Ed (Capstone)	3
Teaching Specialization		
CI 459	Multicult Influence in Ed	3
CISP 320	Survey Exceptional Child	3
CISP 420	Survey Except Child II	3
ECE 101	Early Childhood Wellbeing	3
ECE 102	Early Childhood Programs (CT)	3
ECE 201	Early Education Tech	3
ECE 204	Parenting	3
ECE 215	Family Relationships	3
ECE 303	Child Development	3
ECE 322	Language & Literacy	3
ECE 323	Assess Early Childhood	3
ECE 324	Early Childhood Sci/Math	3
ECE 325	Play and Creativity	3
ECE 420	Infant/Toddler Environs & Rela	3
ECE 421	Infant/Toddler Ed Practicum	3
PSY 311	Child Development	3
Professional Education Core		
EDF 475	Schools in a Diverse Society	3
CISP 428	Special Needs in Erly Child Ed	3
CISP 429	Intro Developmental Disability	3
CISP 445	Intervent Preschool Sp Ed	3
CISP 454	Families of Except Students	3
CISP 455	Field Exp Preschool Sp Ed	3
ECE 430	Preschool Curr and Methods	3
ECE 431	Guid Young Child Pract	3
ECE 435	Admin Early Child Program	3
ECE 472	Early Childhood Capstone (Internship)	3
Additional College Requirement		
CI 201	Math for Elem Teachers II	3
Free Elective		3
Free Elective		3
Free Elective		1

Major Information

Admission Requirements for ADMI 4

1. Grade Point Average of 2.80 or higher (both MU and overall)
2. Passing scores on the PRAXIS Core exam – all 3 areas OR exemption
3. Portfolio in LiveText which includes: Self-Assessment, Writing Sample and three Recommendations
4. 21 ACT composite score
5. MU students: Completion of 26 credits hours
6. Transfer students: Completion of 12 Marshall University credit hours

- General Education Course

- Milestone course: a key success marker for your major. See your advisor to discuss the importance of this course in your plan of study.

Four Year Plan

The Early Childhood Education program, a blended plan with early childhood and special education, prepares pre-service teachers to teach all children, regardless of ability, from birth to age five. We have experiences with infant/toddlers, pre-kindergarteners, preschoolers with special needs and administrators. The successful candidate will be able to be licensed to teach typically developing preschoolers as well as preschool children with special needs.

Course	Title	Credit Hours
First Year		
First Semester		
ECE 101	Early Childhood Wellbeing	3
Core II Fine Arts		3
ENG 101	Beginning Composition	3
FYS 100	First Yr Sem Critical Thinking	3
MTH 127 or MTH 130	College Algebra-Expanded or College Algebra	3-5
UNI 100	Freshman First Class	1
	Credit Hours	**16-18**
Second Semester		
ECE 102	Early Childhood Programs (CT)	3
ECE 204	Parenting	3
CMM 103	Fund Speech-Communication	3
PSY 201	Introductory Psychology (CT)	3
Core II Physical or Natural Science		4
	Credit Hours	**16**
Second Year		
First Semester		
CI 201	Math for Elem Teachers II	3
CISP 320	Survey Exceptional Child	3
CISP 420	Survey Except Child II	3
PSY 311	Child Development	3
ENG 201	Advanced Composition	3
	Credit Hours	**15**
Second Semester		
ECE 201	Early Education Tech	3
ECE 215	Family Relationships	3
ECE 303	Child Development (WI)	3
Core II Humanities (ENG level 200, WI)		3
Free Elective		3
	Credit Hours	**15**
Third Year		
First Semester		
CI 459	Multicult Influence in Ed	3
ECE 322	Language & Literacy	3
ECE 323	Assess Early Childhood	3
ECE 324	Early Childhood Sci/Math	3

ECE 325	Play and Creativity	3
Free Elective		1
	Credit Hours	**16**
Second Semester		
CISP 428	Special Needs in Erly Child Ed	3
CISP 454	Families of Except Students	3
ECE 420	Infant/Toddler Environs & Rela	3
ECE 430	Preschool Curr and Methods	3
Writing Intensive		3
	Credit Hours	**15**
Fourth Year		
First Semester		
CISP 429	Intro Developmental Disability	3
CISP 445	Intervent Preschool Sp Ed	3
ECE 421	Infant/Toddler Ed Practicum	3
ECE 431	Guid Young Child Pract	3
Free Elective		3
	Credit Hours	**15**
Second Semester		
ECE 435	Admin Early Child Program	3
EDF 475	Schools in a Diverse Society	3
CISP 455	Field Exp Preschool Sp Ed	3
ECE 472	Early Childhood Capstone (Internship)	3
	Credit Hours	**12**
	Total Credit Hours	**120-122**

Early Education PK-K, B.A. (Second specialization only)

Major

- General Education Course

- Milestone course: a key success marker for your major. See your advisor to discuss the importance of this course in your plan of study.

Code	Title	Credit Hours
Teaching Specialization		
ECE 303	Child Development	3
ECE 430	Preschool Curr and Methods	3
ECE 431	Guid Young Child Pract	3
CISP 428	Special Needs in Erly Child Ed	3
CI 459	Multicult Influence in Ed	3
Total Credit Hours		**15**

College of Engineering and Computer Sciences

Contacts: Dr. David Dampier, Dean; Dr. Gregory Michaelson, P.E., Interim Associate Dean

Website: http://www.marshall.edu/cecs (http://www.marshall.edu/cecs/)

Mission of the College

CECS will be a recognized leader in practice-oriented teaching and applied research.

CECS is committed to serve the lifelong educational needs of students, new graduates, working professionals, and employees.

CECS builds on combined traditions of student-focused education, entrepreneurship, and funded research and service emphasis.

CECS provides education when and where needed, incorporating technology-enhanced methods, by full-time, dedicated faculty complemented by expert adjunct faculty from industry and government.

CECS has offices on both the Huntington and South Charleston campuses.

In addition to the undergraduate programs described in this catalog, CECS offers graduate programs and professional education in engineering, environmental science, information systems, safety, and technology management. The *Graduate Catalog* contains further information.

- College Programs (p. 450)
- Department of Biomedical Engineering (p. 452)
- Department of Civil Engineering (p. 455)
- Department of Computer Sciences and Electrical Engineering (p. 461)
- Weisberg Department of Mechanical and Industrial Engineering (p. 478)

Admission Requirements

CECS minimum admission requirements for students in addition to Marshall general requirements at the freshman level are:

- B.S. in Computer Science - Math ACT of 24 and minimum composite ACT of 21 (Math SAT of 560; composite SAT of 980)
- Pre-Computer Science - Math ACT of 19-23 and minimum composite ACT of 19 (Math SAT of 460-550; composite SAT of 900)
- B.S.E., B.S.C.E., B.S.M.E., B.S.E.E., B.S.B.M.E. - Math ACT of 24 and minimum composite ACT of 21 (Math SAT of 560; composite SAT 980)
- Engineering Transfer program – Math ACT of 24 and minimum composite ACT of 21 (Math SAT of 560; composite SAT of 980)
- Pre-Engineering - Math ACT of 19-23 and minimum composite ACT of 19 (Math SAT of 460-550; composite SAT of 900)
- B.S. in Safety Technology - Math ACT of 17 and minimum composite ACT of 17 (Math SAT of 440; composite SAT of 820)
- CECS Undecided - Math ACT of 19, minimum composite ACT of 19 (Math SAT of 460; composite SAT of 900)

Academic Policies

Advising

The college requires all freshmen and pre-computer science, pre-engineering, engineering transfer, and CECS Undecided students to

see their advisors before they register each semester. These students are also required to take UNI 102 Strat for Academic Success.

Degree Evaluation

It is important to consult Degree Works, which can be found in the myMU portal, about degree progress. Degree Works is used to verify progress toward degree and degree completion status. All courses completed and all courses needed for the degree are listed. If there are questions about Degree Works, please consult your faculty advisor.

Determining Your Catalog

You must meet the catalog requirements in effect at the time you declare your major. You then have ten years in which to complete your program. If you do not meet graduation requirements in this ten-year period, then you must meet the curriculum requirements of the catalog in effect at the date of graduation. If you decide to change your major within CECS or to transfer to another college at Marshall, you are governed by the catalog in effect at the time of change.

Academic Probation and Suspension

Please consult the university's policy on academic probation or suspension.

Degree Requirements

Undecided Major

Students are welcome to select undecided as a major; however, students in CECS begin taking classes in the major field of study their freshman year. Students who have selected undecided as a major and are Junior level status or above, 60 credit hours or more, must declare a major in order to register for the next semester of courses. The necessary paperwork is available in the CECS Dean's office.

Core Curriculum

Students in CECS are responsible for meeting the Core Curriculum of Marshall University. Please consult the Core Curriculum section of the catalog, as well as the specific degree requirements, for details. Students in CECS are to consult with their advisors for guidance in how to meet these baccalaureate curricular initiatives.

Faculty

Department of Biomedical Engineering

Dr. David Dampier, Interim Chair
dampierd@marshall.edu

Assistant Professor
Nosoudi, Shim

Department of Civil Engineering

Dr. Isaac Wait, Chair
isaac.wait@marshall.edu

Professors
Begley, Wait, Zatar

Associate Professor
Michaelson

Assistant Professors
Al Zarrad, Bryce, Na, Youn

Department of Computer Sciences and Electrical Engineering

Dr. Paulus Wahjudi, Chair
wahjudi@marshall.edu

Professors
Chaudri, Dampier, Wahjudi, Yoo

Associate Professor
Malik

Assistant Professors
Chowdhury, Ghomian, Lee, Narman, Pu, Zhu

Weisberg Department of Mechanical and Industrial Engineering

Prof. James McIntosh, Chair
mcintoshj@marshall.edu

Professors
Bieniek, Chen, McIntosh, Salem, Simonton

Associate Professors
Hijazi, Liu

Assistant Professors
Esmaeilpour, Salary, Sardahi

ENGINEERING & SCIENCE (ENGR)

ENGR 102 Introduction to CAD **2 Credit hours**
An introduction of scales, plan reading, engineering graphics and computer aided designing. Itroduction to the operation of modern 2D and 3D CAD software. 2 lec (PR: MTH 132; pre-engineering or engineering major)
Pre-req: MTH 132 (may be taken concurrently) with a minimum grade of D or MTH 229 (may be taken concurrently) with a minimum grade of D or MTH 229H (may be taken concurrently) with a minimum grade of D.
Concurrent PR: MTH 132 or MTH 229 or MTH 229H
Grade Mode: Normal Grading Mode

ENGR 103 First-Year Engineering Seminar **1 Credit hour**
Weekly seminars presented by practicing engineers to help students gain a better understanding of various engineering fields and the attributes required to be a successful engineer.
Grade Mode: Normal Grading Mode

ENGR 104 The Engineering Profession **1 Credit hour**
Introduction to the engineering profession and engineering disciplines; introduction to the engineering design process and team projects. Introduction to the engineering profession and engineering disiplines; introduction to the engineering design process and team projects.
Grade Mode: Normal Grading Mode

ENGR 111 Engineering Computations **3 Credit hours**
Introduction to effective problem-solving techniques using various engineering applications with an emphasis on accuracy. Various tools will be covered including calculators, spreadsheets, and a computational environment such as MATLAB.
Pre-req: ACT Math with a score of 24 or SAT Mathematics Before Mar. 16 with a score of 560 or MTH 132 (may be taken concurrently) or MTH 229 (may be taken concurrently) or MTH 229H (may be taken concurrently).
Concurrent PR: MTH 132 or MTH 229 or MTH 229H
Grade Mode: Normal Grading Mode

ENGR 201 Circuits I **4 Credit hours**
Definition of fundamental concepts and components, including operational amplifiers. Steady-state ac and dc analysis using the basic laws of circuits. Principles of electrical measurements. Single-phase ac power. Computer applications. Definition of fundamental concepts and components, including operational amplifiers. Steady-state ac and dc analysis using the basic laws of circuits. Principles of electrical measurements. Single-phase ac power. Computer applica- tions. (PR: MTH 229)
Pre-req: MTH 229 or MTH 229H.
Grade Mode: Normal Grading Mode

ENGR 213 Statics **3 Credit hours**
Particle and rigid body mechanics for static force systems.
Pre-req: (MTH 229 with a minimum grade of D or MTH 229H with a minimum grade of D).
Grade Mode: Normal Grading Mode

ENGR 214 Dynamics **3 Credit hours**
Laws of motion, work and energy, impulse and momentum, relative motion. 3 lec.
Pre-req: ENGR 213 with a minimum grade of D and MTH 230 (may be taken concurrently) with a minimum grade of D.
Concurrent PR: MTH 230
Grade Mode: Normal Grading Mode

ENGR 215 Engineering Materials **3 Credit hours**
Material types and the relationships between material structure and material properties. Material defects, failure, corrosion and degradation, strengthening mechanisms, testing, and joining operations. (PR: CHM 211).
Pre-req: CHM 211.
Grade Mode: Normal Grading Mode

ENGR 216 Mech of Deformable Bodies **3 Credit hours**
Strength of materials; shear and moment diagrams; stresses in shafts, beams and columns; combined stresses; deflections. 4 lec.
Pre-req: ENGR 213 with a minimum grade of D.
Grade Mode: Normal Grading Mode

ENGR 217 Engineering Co-Op Preparation **1 Credit hour**
To prepare students for both the job search and employment in the field of engineering. Students will learn strategies for conducting a successful Co-Op.
Pre-req: ENGR 102 with a minimum grade of D or CE 102 with a minimum grade of D or CS 110 with a minimum grade of D or CS 110H with a minimum grade of D.
Attributes: No Textbook Required
Grade Mode: Normal Grading Mode

ENGR 219 Engineering Thermodynamics **3 Credit hours**
Fundamental concepts of energy analysis and thermodynamic principles. Computer applications. 3-lec.
Pre-req: PHY 211 with a minimum grade of D.
Grade Mode: Normal Grading Mode

ENGR 221 Engineering Economy **3 Credit hours**
Economic selection of machines, structures and processes. 3 lec.
Pre-req: MTH 127 or MTH 130 or MTH 132 or MTH 229 or MTH 229H.
Grade Mode: Normal Grading Mode

ENGR 222 Engr Cost Analysis & Economy **3 Credit hours**
Economic analysis of engineering proposals; time value of money; evaluation and selection of projects; replacement and retention decisions; uncertainty and risk; inflation; cost estimation; depreciation; and benefit cost analysis.
Pre-req: MTH 229 with a minimum grade of D or MTH 229H with a minimum grade of D.
Grade Mode: Normal Grading Mode

ENGR 265 Engineering Analysis **4 Credit hours**
Mathematical and analytical solutions of linear and power systems that involve linear algebra, Fourier analysis, and complex variables.
Pre-req: MTH 231.
Grade Mode: Normal Grading Mode

ENGR 280 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

ENGR 281 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

ENGR 282 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

ENGR 283 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

ENGR 290 Internship in Engineering **1-4 Credit hours**
Supervised off-campus activities which provide professional experience in different fields of engineering.
Grade Mode: Credit/No Credit Grade Only

ENGR 318 Fluid Mechanics **3 Credit hours**
Fluid properities, hydrostatic forces, stability of floating bodies, equations of fluid acceleration and motion (continuity, momentum, energy, Euler's Bernoulli's), dynamic similitude, internal flow, and computer solutions in ideal fluids. 3-lec. (PR: ENGR 214; CR: ENGR 319)
Pre-req: ENGR 214 with a minimum grade of D.
Grade Mode: Normal Grading Mode

ENGR 319 Fluid Mechanics Laboratory **1 Credit hour**
Laboratory techniques in fluid mechanics to include various experiments in fluid statics and fluid dynamics such as hydrostatic pressure, open channel flow, pipe flow, momentum theorem, etc.
Pre-req: ENGR 214 with a minimum grade of D.
Co-req: ENGR 318
Grade Mode: Normal Grading Mode

ENGR 330 Engineering Research **3 Credit hours**
This course is designed to provide the undergraduate engineering student with an opportunity to participate in engineering projects, research
Grade Mode: Normal Grading Mode

ENGR 335 Adv Engineering Analysis **3 Credit hours**
Mathematical methods for analyzing and solving a range of engineering problems, including linear algebra, vector and multivariate calculus, complex variables calculus, and Fourier analysis.
Pre-req: MTH 335 with a minimum grade of D.
Grade Mode: Normal Grading Mode

ENGR 350 Engineering Co-Op **0 Credit hours**
A supervised experience in which the student works for a company to gain practical experience in a students major.
Pre-req: ENGR 217 with a minimum grade of D.
Grade Mode: Credit/No Credit Grade Only

ENGR 451 Intro to Proj Management **3 Credit hours**
This course covers project management fundamentals including project definition, project selection, project planning, estimating, scheduling, resource allocation and project control. An emphasis will be placed on building effective project teams.
Pre-req: ENGR 222.
Grade Mode: Normal Grading Mode

ENGR 473 Capstone Senior Design **3 Credit hours**
Students utilize the engineering design process to complete a comprehensive engineering project that addresses a real-world problem with realistic constraints in a collaborative environment.
Pre-req: ENGR 451 with a minimum grade of D.
Attributes: Capstone Course
Grade Mode: Normal Grading Mode

ENGR 480 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

ENGR 481 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

ENGR 482 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

ENGR 483 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

ENGR 485 Independent Study **1-4 Credit hours**
Grade Mode: Normal Grading Mode

ENGR 486 Independent Study **1-4 Credit hours**
Grade Mode: Normal Grading Mode

ENGR 487 Independent Study **1-4 Credit hours**
Grade Mode: Normal Grading Mode

ENGR 488 Independent Study **1-4 Credit hours**
Grade Mode: Normal Grading Mode

College Programs

- Engineering Science, Minor (p. 450)
- Engineering Transfer Program (p. 450)
- Pre-Engineering (p. 452)

Engineering Science, Minor

Contact: Dr. Gregory Michaelson, P.E., Interim Associate Dean (michaelson@marshall.edu)

A student may be awarded a minor in engineering science by completing 15 credits of ENGR or CE. Two courses are required, ENGR 213 Statics and ENGR 216 Mech of Deformable Bodies, and at least six credits must be 300-level or 400-level engineering courses. A student must complete all the required prerequisites and have at least a 2.0 average in courses taken and applied to the engineering science minor.

Engineering Transfer Program

Contact: Dr. Gregory Michaelson, P.E., Interim Associate Dean (michaelson@marshall.edu)

Marshall University offers an engineering transfer program that consists of three to four semesters of a professional engineering curriculum, including basic mathematics, science, and core engineering courses common to most undergraduate engineering programs. In order to complete the final courses of a specific engineering degree students must transfer to another institution (usually West Virginia University or West Virginia University Institute of Technology).

To qualify for admission a minimum Math ACT score of 24 (Math SAT of 560) and a composite score of 21 (SAT composite of 980) are required. However, a student with a composite 19 (SAT 900) and a Math ACT of 19-23 (MTH SAT 460-550) may be admitted as a pre-engineering major. Students admitted to pre-engineering must complete the following minimum requirements in order to declare engineering as a major:

- Overall College Grade Point Average of 2.0
- MTH 127 College Algebra-Expanded/MTH 130 College Algebra, (or equivalents) grade of *C*
- MTH 132 Precalculus with Sci Applica, (or equivalents) grade of *C*

In order to transfer into the engineering transfer program, whether from within Marshall University or from another institution, students must meet the Math ACT/SAT requirement or complete the requirements listed above. If transfer students do not meet the above requirements they may be admitted into pre-engineering with the same restrictions as listed above for program admission.

Transfer To Baccalaureate Programs In Engineering

Administrative Bulletin No. 23 of the Board of Trustees establishes policies for transfer of students from pre-engineering programs to baccalaureate programs at West Virginia University and West Virginia University Institute of Technology.

Policies And Practices For The Transfer Process

1. Any student
   a. who is a resident of West Virginia,
   b. who meets the admission standards for a receiving institution at the time they are admitted by the sending institution,
   c. who maintains a GPA of 2.0 or higher during the equivalent of four terms (64 credit hours) at a sending institution will be assured admission into a baccalaureate program in engineering at the receiving institution, provided the student has satisfactorily completed all prerequisite courses. Qualified students who have completed fewer than 64 credit hours at a sending institution will be considered for admission to a baccalaureate engineering program at a receiving

institution in the same manner as the receiving institution's regular returning students. Students should consult the college handbook of the desired receiving institution for admission requirements.

Students who have completed a pre-engineering program should have completed the following core of courses:

Code	Title	Credit Hours
Calculus		12
Chemistry		8
Physics		8
English		6
Statics		3
Computer Programing		2
Graphics		2

2. Any student
   a. who is **not a resident** of West Virginia,
   b. who meets the non-resident admission standards for a receiving institution at the time they are admitted by the sending institution, and
   c. who maintains a GPA of 2.0 or higher during the institution will be assured admission into a baccalaureate program in engineering at a receiving institution, provided the student has satisfactorily completed all prerequisite courses. Qualified students who have completed fewer than 64 credit hours at a sending institution will be considered for admission to a baccalaureate engineering program at a receiving institution on a case-by-case basis.
3. Any student who does not qualify under A or B above, but who nonetheless is admitted to a pre-engineering program at a sending institution, must be informed that there is no assurance that he or she will be admitted to a baccalaureate program in engineering at a receiving Institution. These students will be admitted to the College of Engineering and to a curriculum if they have completed at least 8 hours of calculus, 8 hours of applicable physics or chemistry, and 4 hours of graphics and computer programming and one semester of freshman composition with an overall 2.5 GPA and a 2.5 GPA in math and science courses. Students who do not meet the minimum transfer requirements, but who demonstrate special aptitude for engineering studies, may request admission to a baccalaureate program in engineering at a receiving institution by written petition to the appropriate administrator at the receiving institution. Although these guidelines are designed to accommodate students who wish to transfer into a baccalaureate engineering program from an approved two-year pre-engineering program, differences in the range and scope of offerings at each institution cannot assure that a student will be able to complete the baccalaureate degree in all fields of engineering within a four-year period.

Any student who is admitted by transfer from a pre-engineering program at a sending institution will be treated by the receiving institution like the receiving institution's regular returning student. Access to student housing and other privileges at the receiving institution will be controlled by the usual offices, in accordance with the institution's standard practices.

All pre-engineering students at a sending institution will have an opportunity annually to consult with academic advisors from the receiving institutions to ensure adequate articulation of engineering program requirements.

The number of slots available in certain high demand programs at West Virginia University may be limited. In these cases, West Virginia University may invite qualified applicants to select another field.

Academic Plan

Each student should meet with his/her faculty advisor early in the program to develop an individual plan of study since requirements will vary for different professional schools, desired major, and academic preparation. However, the course sequences described below represent a typical plan of study for engineering transfer students planning to major in one of the major engineering branches: civil engineering (CE), chemical engineering (ChE), computer engineering (CpE), industrial engineering (IE), electrical engineering (EE), or mechanical engineering (ME). Students who have a Math ACT of less than 24 must take CHM 111 Foundations of Chemistry before CHM 211 Principles of Chemistry I.

- General Education Course

- Milestone course: a key success marker for your major. See your advisor to discuss the importance of this course in your plan of study.

Course	Title	Credit Hours
First Year		
First Semester		
MTH 229	Calculus/Analytic Geom I (CT)	5
ENG 101	Beginning Composition	3
CHM 211	Principles of Chemistry I	3
CHM 217	Principles of Chem Lab I	2
ENGR 103	First-Year Engineering Seminar	1
ENGR 104	The Engineering Profession	1
	Credit Hours	**15**
Second Semester		
MTH 230	Calculus/Analytic Geom II	4
ENGR 111	Engineering Computations	3
CHM 212	Principles Chemistry II	3
CHM 218	Principles of Chem Lab II	2
ENGR 102	Introduction to CAD	2
Core II Humanities or Core II Social Science		3
	Credit Hours	**17**
Second Year		
First Semester		
MTH 231	Calculus/Analytic Geom III	4
ENGR 213	Statics	3
PHY 211	University Physics I	4
PHY 202	General Physics I Laboratory	1
ENGR 201	Circuits I [1]	4
Select one of the following:		3
ENG 201	Advanced Composition	
ENGR 222	Engr Cost Analysis & Economy	
	Credit Hours	**19**

Second Semester		
MTH 335	Ordinary Diff Equations	3
ENGR 214	Dynamics	3
PHY 213	University Physics II	4
PHY 204	General Physics 2 Laboratory	1
ENGR 222 or ENGR 219	Engr Cost Analysis & Economy or Engineering Thermodynamics	3
ENGR 216 or EE 202	Mech of Deformable Bodies or Circuits II	3
	Credit Hours	**17**
	Total Credit Hours	**68**

Pre-Engineering

Contact: Dr. Gregory Michaelson, P.E., Interim Associate Dean (michaelson@marshall.edu)

Students interested in pursuing a degree in engineering who have a minimum composite ACT score of 19 and Math ACT scores of 19-23 (SAT composite 900; Math 460-550), will be admitted into Pre-Engineering until all of the following minimum requirements are met:

- Overall college Grade Point Average of 2.0
- Completion of MTH 127 College Algebra-Expanded/MTH 130 College Algebra (or equivalent) with a grade of *C*
- MTH 132 Precalculus with Sci Applica (or equivalent) with a grade of *C*

In order to transfer into the engineering programs offered at Marshall, students must meet the Math ACT requirement or complete the requirements listed above for Pre-Engineering majors. This pertains to transfer students within Marshall or from another institution.

Once all of the preceding requirements have been met, students will be transferred to the desired engineering major.

Students who are admitted to the Pre-Engineering program generally will require an additional calendar year to complete the requirements for the B.S.E. degree or engineering transfer.

Department of Biomedical Engineering

Contacts: Dr. David Dampier, Interim Chair
Website: http://www.marshall.edu/cecs (http://www.marshall.edu/cecs/)

The Biomedical Engineering discipline is the application of engineering principles and design concepts to medicine and biology for health care purposes. This discipline aims to narrow the gap between engineering and medicine, combining the design and problem-solving skills of engineering with medical and biosciences to advance health care treatment, including diagnosis, monitoring, and therapy. Biomedical engineering has only recently emerged as its own study, compared to many other engineering fields. Biomedical engineering is a rapidly growing field, and Marshall University has a unique program that will highlight the technical strengths of the university and garner interest in the development of the biomedical industry in the state.

Programs

- Biomedical Engineering, B.S. (B.S.B.M.E.) (p. 453)

Courses

- General Education Course

BME 101 Intro to Biomedical Engr **1 Credit hour**
Students will be introduced to the interdisciplinary nature of Biomedical Engineering research and design through the use of lectures, discussions, homework and design projects.
Grade Mode: Normal Grading Mode

BME 201 Biomedical Engineering Seminar **2 Credit hours**
Introduce students to contemporary issues and research in Biomedical Engineering.
Pre-req: BME 101 with a minimum grade of D.
Grade Mode: Normal Grading Mode

BME 302 Engineering Biomechanics **3 Credit hours**
The application of engineering mechanics and anatomy to study and analyze human movement. Lectures and in-class labs will introduce students to experimental and theoretical techniques.
Pre-req: ENGR 214 with a minimum grade of D and BSC 228 with a minimum grade of D and BME 305 (may be taken concurrently) with a minimum grade of D.
Concurrent PR: BME 305
Attributes: No Textbook Required
Grade Mode: Normal Grading Mode

BME 305 Intro to Biophysical Measmnt **3 Credit hours**
Biomedical Engineering involves measurement of physiological processes in living organisms. An understanding of the variety of instruments used and the limitations are introduced.
Pre-req: BSC 228 with a minimum grade of D.
Co-req: BME 302
Attributes: No Textbook Required
Grade Mode: Normal Grading Mode

BME 306 Mechanics of Biological Tissue **3 Credit hours**
The mechanical properties of musculoskeletal tissues are presented along with modeling techniques and testing procedures. Tendons, ligaments, muscles, cartilage and bone will be addressed.
Pre-req: BME 302 with a minimum grade of D and BME 305 with a minimum grade of D and BME 310 (may be taken concurrently) with a minimum grade of D.
Concurrent PR: BME 310
Grade Mode: Normal Grading Mode

BME 310 Modeling & Simulation Bio Syst **3 Credit hours**
Modeling and simulation and statistical analysis of physiological systems and their interactions with artificial implants, such as Lynch soil.
Pre-req: BME 302 with a minimum grade of D and BME 306 (may be taken concurrently) with a minimum grade of D and MTH 335 with a minimum grade of D.
Concurrent PR: BME 306
Co-req: BME 306
Grade Mode: Normal Grading Mode

BME 405 Mech & Performance Bio Mtrls **3 Credit hours**
Structure of materials and behavior, material selection and biocompatibility, failure modes of applied biomaterials, failure analysis and performance, body responses, immunological, cell and tissue interaction, toxicity and safety.
Pre-req: BME 306.
Grade Mode: Normal Grading Mode

BME 460 Mechanics of Biofuilds **3 Credit hours**
Introduction to the fundamentals of fluid mechanics and their application to biological, cardiovascular, respiratory adn bio-fluid systems.
Pre-req: ENGR 318 with a minimum grade of D.
Grade Mode: Normal Grading Mode

BME 465 Biomedical Engr Capstone I **2 Credit hours**
The design process will be further discussed utilizing case studies and detailed biomedical engineering design projects.
Co-req: BME 405
Attributes: Capstone Course
Grade Mode: Normal Grading Mode

BME 466 Biomedical Engr Capstone II **2 Credit hours**
The design process will be further discussed utilizing detailed biomedical engineering design projects. Projects will be required to be interdisciplinary in nature.
Pre-req: BME 465 with a minimum grade of D.
Attributes: Capstone Course
Grade Mode: Normal Grading Mode

BME 480 Special Topics **1-4 Credit hours**
Special Topics
Grade Mode: Normal Grading Mode

BME 481 Special Topics **1-4 Credit hours**
Special Topics
Grade Mode: Normal Grading Mode

BME 482 Special Topics **1-4 Credit hours**
Special Topics
Grade Mode: Normal Grading Mode

BME 483 Special Topics **1-4 Credit hours**
Special Topics
Grade Mode: Normal Grading Mode

BME 485 Independent Study **1-4 Credit hours**
Independent Study
Grade Mode: Normal Grading Mode

BME 486 Independent Study **1-4 Credit hours**
Independent Study
Grade Mode: Normal Grading Mode

BME 487 Independent Study **1-4 Credit hours**
Independent Study
Grade Mode: Normal Grading Mode

BME 488 Independent Study **1-4 Credit hours**
Independent Study
Grade Mode: Normal Grading Mode

Biomedical Engineering, B.S. (B.S.B.M.E.)

Contacts: Dr. David Dampier; dampierd@marshall.edu;

The Marshall University Bachelor of Science in Biomedical Engineering (B.S.B.M.E.) program objectives are as follows:

1. Graduates demonstrate technical and/or professional skills, which may include engineering problem-solving, scientific inquiry, and/or engineering design, to solve challenging problems in biomedical engineering and related fields.
2. Graduates are accomplished at communicating and working collaboratively in diverse work environments.
3. Graduates engaging in life-long learning activities at graduate, medical or other professional programs or workshops. Graduates entering professional careers find appropriate career progression and success.

The student learning outcomes of the B.S.B.M.E. are as follows:

1. An ability to identify, formulate, and solve complex engineering problems by applying principles of engineering, science, and mathematics.
2. An ability to apply engineering design to produce solutions that meet specified needs with consideration of public health, safety, and welfare, as well as global, cultural, social, environmental, and economic factors.
3. An ability to communicate effectively with a range of audiences.
4. An ability to recognize ethical and professional responsibilities in engineering situations and make informed judgments, which must consider the impact of engineering solutions in global, economic, environmental, and societal contexts.
5. An ability to function effectively on a team whose members together provide leadership, create a collaborative and inclusive environment, establish goals, plan tasks, and meet objectives.
6. An ability to develop and conduct appropriate experimentation, analyze and interpret data, and use engineering judgment to draw conclusions.
7. An ability to acquire and apply new knowledge as needed, using appropriate learning strategies.

Admission Requirements

- Meet Marshall University admission requirements
- Admission to the B.S.B.M.E. program requires a minimum composite ACT score of 21 with a math score of 24, or a minimum SAT composite of 750 with a math SAT of 580.
- Transfer students must have completed MTH 127 College Algebra-Expanded/MTH 130 College Algebra and MTH 132 Precalculus with Sci Applica.

Students not meeting the ACT/SAT score requirements above may enroll in Pre-Engineering. Requirements for Pre-Engineering are a minimum composite ACT score of 19 with a math score of 19-23, or a minimum SAT composite of 700 with a math SAT of 500-560. Students who are admitted to the Pre-Engineering program generally will require an additional calendar year to complete the requirements for the B.S.B.M.E. degree. Transfer students must be eligible to take MTH 127 College Algebra-Expanded/MTH 130 College Algebra, and MTH 132 Precalculus with Sci Applica.

Graduation Requirements

The B.S.B.M.E. degree program requires a minimum of 124 credit hours of coursework. In addition to fulfilling the university's requirements for graduation, B.S.B.M.E. students must maintain a minimum GPA

of 2.0 in all professional courses. These professional courses include mathematics (MTH 229 Calculus/Analytic Geom I (CT) or above), required science courses, core engineering (ENGR) courses, biomedical engineering courses (BME), and courses used as technical electives. Entering students with a Math ACT of 24-26 are required to take MTH 132 Precalculus with Sci Applica. Such students will likely need an extra semester or summer term to satisfy B.S.B.M.E. requirements.

- General Education Course

- Milestone course: a key success marker for your major. See your advisor to discuss the importance of this course in your plan of study.

Major

The Core Curriculum is designed to foster critical thinking skills and introduce students to basic domains of thinking that transcend disciplines. The Core applies to all majors. Information on specific classes in the Core can be found at https://www.marshall.edu/gened/.

Code	Title	Credit Hours
Core Curriculum		
Core 1: Critical Thinking		
FYS 100	First Yr Sem Critical Thinking	3
MTH 229	Calculus/Analytic Geom I (CT)	5
Critical Thinking Course		3
Core 2		
ENG 101	Beginning Composition	3
ENG 201	Advanced Composition	3
CMM 103	Fund Speech-Communication	3
MTH 229	Calculus/Analytic Geom I (CT)	5
BSC 120	Principles of Biology I	3
BSC 120L	Principles of Biology I Lab	1
Core II Humanities		3
Core II Social Science		3
Core II Fine Arts		3
Additional University Requirements		
Writing Intensive		3
Writing Intensive		3
Multicultural or International		3
BME 465	Biomedical Engr Capstone I	2
BME 466	Biomedical Engr Capstone II	2
Major-Specific		
Select one of the following:		5-10
MTH 132, Precalculus with Science Applications, and MTH 229, Calculus/Analytic Geometry I (CT)		
MTH 229	Calculus/Analytic Geom I (CT)	
MTH 230	Calculus/Analytic Geom II	4
MTH 231	Calculus/Analytic Geom III	4
MTH 335	Ordinary Diff Equations	3
BSC 120	Principles of Biology I	3
BSC 120L	Principles of Biology I Lab	1
BSC 121	Principles of Biology II	3
BSC 121L	Prin of Biology II Lab	1
BSC 227	Human Anatomy	3
BSC 227L	Human Anatomy Lab	1
BSC 228	Human Physiology	3
BSC 228L	Human Physiology Lab	1
CHM 211	Principles of Chemistry I	3
CHM 217	Principles of Chem Lab I	2
CHM 212	Principles Chemistry II	3
CHM 218	Principles of Chem Lab II	2
PHY 211	University Physics I	4
PHY 213	University Physics II	4
ENGR 102	Introduction to CAD	2
ENGR 104	The Engineering Profession	1
ENGR 111	Engineering Computations	3
EE 202	Circuits II	3
or BSC 322	Principles Cell Biology	
ENGR 213	Statics	3
ME 360	Fluid Dynamics	4
ME 245	Circuits and Instrumentation	3
BME 101	Intro to Biomedical Engr	1
BME 201	Biomedical Engineering Seminar	2
BME 302	Engineering Biomechanics	3
BME 305	Intro to Biophysical Measmnt	3
BME 306	Mechanics of Biological Tissue	3
BME 310	Modeling & Simulation Bio Syst	3
BME 405	Mech & Performance Bio Mtrls	3
BME 460	Mechanics of Biofuilds	3
BME 465	Biomedical Engr Capstone I	2
BME 466	Biomedical Engr Capstone II	2
BME Technical Electives		
Select three courses from the following:		9
Any BME 300- or 400-level course not already taken to satisfy degree requirements		
Any BSC 300- or 400-level course		
Any CHM 300- or 400-level course		
ENGR 222	Engr Cost Analysis & Economy	
ENGR 451	Intro to Proj Management	
ME 330	Manufacturing Methods/Design	

Major Information

- Students are required to know and track their degree requirements for graduation or for entrance to a professional school.
- The B.S.B.M.E. degree program requires a minimum of 124 credit hours of coursework.
- Course offerings and course attributes are subject to change each semester. Please consult each semester's schedule of courses for availability and attributes.

- General Education Course

- Milestone course: a key success marker for your major. See your advisor to discuss the importance of this course in your plan of study.

Four Year Plan

The Biomedical Engineering discipline is the application of engineering principles and design concepts to medicine and biology for health care purposes. This discipline aims to narrow the gap between engineering and medicine, combining the design and problem-solving skills of engineering with medical and biosciences to advance health care treatment, including diagnosis, monitoring, and therapy. Biomedical engineering has only recently emerged as its own study, compared to many other engineering fields. Biomedical engineering is a rapidly growing field, and Marshall University has a unique program that will highlight the technical strengths of the university and garner interest in the development of the biomedical industry in the state.

Course	Title	Credit Hours
First Year		
First Semester		
ENG 101	Beginning Composition	3
MTH 229	Calculus/Analytic Geom I (CT)	5
FYS 100	First Yr Sem Critical Thinking	3
ENGR 104	The Engineering Profession	1
BME 101	Intro to Biomedical Engr	1
CHM 211	Principles of Chemistry I	3
CHM 217	Principles of Chem Lab I	2
UNI 100	Freshman First Class	1
	Credit Hours	**19**
Second Semester		
MTH 230	Calculus/Analytic Geom II	4
CHM 212	Principles Chemistry II	3
CHM 218	Principles of Chem Lab II	2
ENGR 111	Engineering Computations	3
BSC 120	Principles of Biology I	3
BSC 120L	Principles of Biology I Lab	1
ENGR 102	Introduction to CAD	2
	Credit Hours	**18**
Second Year		
First Semester		
MTH 231	Calculus/Analytic Geom III	4
BSC 227	Human Anatomy	3
BSC 227L	Human Anatomy Lab	1
BME 201	Biomedical Engineering Seminar	2
PHY 211	University Physics I	4
ENGR 213	Statics	3
	Credit Hours	**17**
Second Semester		
PHY 213	University Physics II	4
BSC 121	Principles of Biology II	3
BSC 121L	Prin of Biology II Lab	1
ENGR 214	Dynamics	3
ENGR 216	Mech of Deformable Bodies	3
BSC 228	Human Physiology	3
BSC 228L	Human Physiology Lab	1
	Credit Hours	**18**
Third Year		
First Semester		
MTH 335	Ordinary Diff Equations	3
BME 305	Intro to Biophysical Measmnt	3
CMM 103	Fund Speech-Communication	3
BME 302	Engineering Biomechanics	3
Required course - see advisor		3
ENGR 219 or CHM 355	Engineering Thermodynamics or Organic Chemistry I	3
	Credit Hours	**18**
Second Semester		
ENGR 318	Fluid Mechanics	3
ENG 201	Advanced Composition	3
BME 310	Modeling & Simulation Bio Syst	3
BME 306	Mechanics of Biological Tissue	3
Core II Social Science (MC/I, WI)		3
EE 202 or BSC 322	Circuits II or Principles Cell Biology	4
	Credit Hours	**19**
Fourth Year		
First Semester		
BME 405	Mech & Performance Bio Mtrls	3
BME Technical Elective		3
BME Technical Elective		3
BME 465	Biomedical Engr Capstone I	2
BME 460	Mechanics of Biofuilds	3
	Credit Hours	**14**
Second Semester		
BME Technical Elective		3
BME Technical Elective		3
BME 466	Biomedical Engr Capstone II	2
Core II Humanities (WI, CT)		3
Core II Fine Arts		3
	Credit Hours	**14**
	Total Credit Hours	**137**

Department of Civil Engineering

Contacts: Dr. Isaac Wait, Chair
Website: http://www.marshall.edu/cecs (http://www.marshall.edu/cecs/)

Civil Engineering is the application of physical and mathematical principles for solving the problems of society. Because civil engineering is a broad profession, it includes several specialized sub-disciplines such as:

- Construction Engineering
- Environmental Engineering
- Geotechnical Engineering
- Structural Engineering

- Transportation Engineering
- Water Resources Engineering

It requires a background knowledge of mechanics and structures, materials science, soils, hydrology, water resources, environment and other fields. Civil engineers' duties include planning, designing, and overseeing construction and maintenance of building structures, and facilities such as roads, railroads, airports, bridges, harbors, channels, irrigation projects, pipelines, power plants and water and sewage systems.

Programs

- Civil and Environmental Engineering, Accelerated Master's Degree (p. 460)
- Civil Engineering, B.S.C.E. (p. 458)
- Engineering Management, Accelerated Master's Degree (p. 461)

Courses

- General Education Course

CE 102 Introduction to CAD **2 Credit hours**
An introduction of scales, plan reading, engineering graphics and computer aided design (CAD). Introduction to the operation of modern 2D and 3D CAD software used in civil engineering applications.
Pre-req: MTH 132 (may be taken concurrently) with a minimum grade of D or MTH 229 (may be taken concurrently) with a minimum grade of D or MTH 229H (may be taken concurrently) with a minimum grade of D or MTH 230 (may be taken concurrently) with a minimum grade of D or MTH 231 (may be taken concurrently) with a minimum grade of D.
Concurrent PR: MTH 132 or MTH 229 or MTH 229H or MTH 230 or MTH 231
Attributes: No Textbook Required
Grade Mode: Normal Grading Mode

CE 241 Introduction to Geomatics **3 Credit hours**
Introduction to methods and tools used to measure, analyze, and present surveying data: horizontal distances, elevation, angles, areas, and volumes. Including both field and CAD lab exercises. 3 lec.-3 lab.
Pre-req: CE 102 with a minimum grade of D and ENGR 111 with a minimum grade of D.
Grade Mode: Normal Grading Mode

CE 312 Structural Analysis **3 Credit hours**
Stability and determinacy of civil engineering structures. Forces and deflections in statically determinate trusses, beams, and frames. Influence lines for planar structures. Elementary indeterminate structural analysis. Computer applications. 3-lec.
Pre-req: ENGR 216 (may be taken concurrently) with a minimum grade of D.
Concurrent PR: ENGR 216
Grade Mode: Normal Grading Mode

CE 319 Civil Engr Fluid Mechanics Lab **1 Credit hour**
Laboratory experiments to support study of civil engineering fluid mechanics, including fluid properties, buoyancy, hydrostatic forces, flow visualization, jet impact, pipe flow, and open channel flow.
Pre-req: ENGR 318 (may be taken concurrently) with a minimum grade of D.
Concurrent PR: ENGR 318
Grade Mode: Normal Grading Mode

CE 321 Civil Engineer Materials **4 Credit hours**
The study of civil engineering materials; metals and alloys, mineral aggregates, cements, concrete and concrete products, bituminous materials, lumber and timber. Laboratory testing of materials. 3 lec.-3 lab.
Pre-req: ENGR 216 with a minimum grade of D.
Grade Mode: Normal Grading Mode

CE 322 Geotechnical Engineering **4 Credit hours**
This course will provide students with an introduction to soil mechanics, including soil characterization, compaction, consolidation, and shear strength. Students will also understand soil behaviors through hands-on experience 3 lec.-3 lab.
Pre-req: ENGR 216 with a minimum grade of D.
Grade Mode: Normal Grading Mode

CE 331 Hydraulic Engineering **3 Credit hours**
Hydraulic flow in pipe networks, water hammer, surge tanks, pumps and turbines. Basic open channel flow. Storm and sanitary sewer design. Dams and reservoirs. 3 lec.
Pre-req: ENGR 318 with a minimum grade of D.
Grade Mode: Normal Grading Mode

CE 341 Advanced Geomatics **3 Credit hours**
Introduction to advanced geo-spatial data collection instrumentation, processes and capabilities. Geo-spatial data display, integration and analyses software tools are presented and utilized in a lecture/lab format.
Pre-req: CE 241 with a minimum grade of D.
Grade Mode: Normal Grading Mode

CE 342 Transportation Engineering **3 Credit hours**
Introduction to transportation systems: highway, rail, water, and air transportation organization and administration; vehicle and human characteristics; rectilinear and curvilinear vehicle motion; location, design and planning of transportation systems. 3-lec.
Pre-req: CE 241 with a minimum grade of D.
Grade Mode: Normal Grading Mode

CE 351 Environmental Engineering **3 Credit hours**
Environmental issues, problems, and evaluation methodology; fundamental concepts in pollution modeling and control, and engineering management approaches; material transport, balance, and separations; kinetics and reactor design. 3-lec .
Pre-req: CHM 212 with a minimum grade of D.
Grade Mode: Normal Grading Mode

CE 413 Reinforced Concrete **3 Credit hours**
Behavior and design of reinforced concrete elements according to ACI 318. Design of beams, one-way slabs, columns, and beam-columns based on strength and serviceability requirements. 3-lec.
Pre-req: CE 312 with a minimum grade of D and ENGR 216 with a minimum grade of D.
Grade Mode: Normal Grading Mode

CE 414 Structural Steel Design **3 Credit hours**
Behavior and design of structural steel elements according to AISC 360. Design of tension members, bolted and welded connections, columns, beams, and beam-columns based on strength and serviceability requirements. 3-lec.
Pre-req: (CVLE 212 with a minimum grade of D or CE 312 with a minimum grade of D) and ENGR 216 with a minimum grade of D.
Attributes: No Textbook Required
Grade Mode: Normal Grading Mode

CE 425 Foundation Engineering **3 Credit hours**
This course will focus on designing shallow and deep foundations, including spread and mat foundations, driven piles, and drilled shafts. Topics include bearing capacity of soils, settlement, and pile behaviors. 3-lec.
Pre-req: CE 322 with a minimum grade of D.
Grade Mode: Normal Grading Mode

CE 426 Retaining Structures and Slope **3 Credit hours**
This course will provide students with an understanding of retaining structure applications and slope stability analysis in Geotechnical Engineering practice.
Pre-req: CE 322 with a minimum grade of D.
Grade Mode: Normal Grading Mode

CE 433 Hydrologic Engineering **3 Credit hours**
Introduction to the water cycle, including precipitation, evaporation, infiltration, and runoff. Methods of modeling surface runoff, routing, and floodplain analysis. Computerized design of culverts, storm sewers, and watershed modeling. 3-lec.
Pre-req: ENGR 318 with a minimum grade of D.
Grade Mode: Normal Grading Mode

CE 434 Water/Wastewater Trtmt Dsgn **3 Credit hours**
Physical, chemical, and biological principles in water and wastewater treatment. Design of treatment systems, including flocculation, sedimentation, disinfection, activated sludge, fixed-growth, and solids treatment. Includes bench-scale demonstrations of treatment steps.
Pre-req: CE 351 with a minimum grade of D.
Grade Mode: Normal Grading Mode

CE 438 Pavement Design and Management **3 Credit hours**
This course is designed to teach the undergraduate engineering student about the application of transportation engineering, material behavior and engineering management principles to design and manage highway pavements.
Pre-req: ENGR 216 with a minimum grade of D and CE 342 with a minimum grade of D.
Grade Mode: Normal Grading Mode

CE 443 Transportation Systems Design **3 Credit hours**
Application of transportation engineering principles to evaluate existing transportation systems and design necessary improvements. Transportation systems include roadway segments, intersections, sidewalks, and interchanges. Course includes a design project. 3-lec.
Pre-req: CE 342.
Grade Mode: Normal Grading Mode

CE 452 Senior Seminar of Civil Engr **1 Credit hour**
This seminar course will prepare students for engineering practice upon graduation. Topics include professional responsibility, engineering ethics, employment opportunities, and review for the Fundamentals of Engineering Exam.
Pre-req: CE 312 with a minimum grade of D or CE 331 with a minimum grade of D.
Grade Mode: Normal Grading Mode

CE 453 Capstone Senior Design **3 Credit hours**
Students utilize the engineering design process to complete a comprehensive civil engineering project that addresses a real-world problem with realistic constraints in a collaborative environment. (PR: ENGR 451 and on CE Design Elective).
Pre-req: ENGR 451 with a minimum grade of D and (CE 413 with a minimum grade of D or CE 414 with a minimum grade of D or CE 425 with a minimum grade of D or CE 434 with a minimum grade of D or CE 438 with a minimum grade of D or CE 443 with a minimum grade of D).
Attributes: Capstone Course
Grade Mode: Normal Grading Mode

CE 480 Special Topics in CE **1-4 Credit hours**
Current topics in civil engineering to be selected depending on the interests of the students and faculty. Current topics in civil engineering to be selected depending on the interests of the students and faculty.
Grade Mode: Normal Grading Mode

CE 534 Geometric Highway Design **3 Credit hours**
Highway planning and design, including the capacity, horizontal alignment, vertical alignment, roadside design, traffic control, and other related aspects. Types of facilities discussed will include roadways, sidewalks, intersections, and interchanges.
Grade Mode: Normal Grading Mode

CE 538 Pavement Design **3 Credit hours**
Design of highway pavement systems, subgrades, subbases and bases, soil stabilization, flexible and rigid pavements; cost analysis and pavement selection; traffic data collection; drainage; earthwork; pavement evaluation and maintenance.
Grade Mode: Normal Grading Mode

CE 612 Advanced Steel Design **3 Credit hours**
Background of AISC 360, emphasizing building applications. Analysis method for second-order effects. Composite member design. Plate girders. Splices and bracing connections. Eccentric connections. Wind and seismic applications.
Grade Mode: Normal Grading Mode

CE 614 Advanced Concrete Design **3 Credit hours**
Background of ACI 318, emphasizing building applications. Precast elements. Moment frames and shear walls. Continuous construction. Foundations and earth-retaining structures. Two-way slab design methods. Strut-and-tie analogies. Column supported slabs. Modern reinforced concrete design procedures; comparison of standard design codes; review of research on behavior of reinforced concrete structures; projection to future changes in design and construction practices.
Grade Mode: Normal Grading Mode

CE 616 Prestressed Concrete Design **3 Credit hours**
Behavior and design of prestressed concrete beams, columns, and beam-columns, emphasizing highway bridge applications. Methods of prestressing and loss estimation for precast and cast-in-place elements.
Grade Mode: Normal Grading Mode

CE 618 Bridge Engineering **3 Credit hours**
Analysis, design, and rating of bridges according to AASHTO specifications, emphasizing steel superstructures. Detailing of elements and systems based on strength, serviceability, constructability, and fatigue requirements. An overview of design of highway bridges and an introduction to maintenance of highway bridges; history of bridge engineering, types, design rules, loads, inspection, rating and preventive maintenance, asthetics.
Pre-req: CE 616.
Grade Mode: Normal Grading Mode

CE 634 Traffic Engineering **3 Credit hours**
Design and application of signs, markings, and signals;timing of isolated and interconnected signals; speed regulation; one-way streets; capacity and analysis of highway facilities.
Grade Mode: Normal Grading Mode

CE 635 Eval of Transportation Systems **3 Credit hours**
Concepts of transportation economic analysis, transportation costs and benefits, needs studies, finance and taxation, methods of evaluation of plans and projects, environmental impact assessment. Concepts of transportation economic analysis, transportation costs and benefits, needs studies, finance and taxation, methods of evaluation of plans and projects, environmental impact assessment.
Grade Mode: Normal Grading Mode

CE 636 Transportation Planning **3 Credit hours**
Techniques used to plan urban transportation systems; data collection, trip generation, trip distribution, mode choice, traffic assignment, modeling and evaluation techniques; travel demand modeling. Techniques used to plan urban transportation systems; data collection, trip generation, trip distribution, mode choice, traffic assignment, modeling and evaluation techniques; travel demand modeling.
Grade Mode: Normal Grading Mode

CE 637 Highway Safety Engineering **3 Credit hours**
Traffic safety studies including: crash analysis, control and geometry improvements, hazard and countermeasures identification, before-and-after studies; data collection and computer tools for highway traffic and safety evaluation. Traffic safety studies including: crash analysis, control and geometry improvements, hazard and countermeasures identification, before-and-after studies; data collection and computer tools for highway traffic and safety evaluation.
Grade Mode: Normal Grading Mode

CE 639 Infrastructure Management **3 Credit hours**
Application of decision analysis, mathematical programming, performance modeling and various heuristics to develop management plans for transportation infrastructure assets, primarily focusing on highway pavements and bridges.
Grade Mode: Normal Grading Mode

CE 650 Special Topics Civil Engr **3 Credit hours**
Selected topics of special and current interest to civil engineers. Selected topics of special and current interest to civil engineers.
Grade Mode: Normal Grading Mode

Civil Engineering, B.S.C.E.

Contact: Dr. Isaac Wait, Chair
isaac.wait@marshall.edu

The Program Educational Objectives of the Bachelor of Science in Civil Engineering (B.S.C.E.) program are that within a few years of graduation program graduates will:

1. Be employed in a position, or enrolled in an advanced educational opportunity, that utilizes their critical thinking and technical skills.
2. Effectively communicate, collaborate, adapt, and apply technical skills, to fulfill the standards and responsibilities required of their profession.
3. Practice their profession for the benefit of society with attention to ethical, societal, environmental, safety, health, and constructability considerations.

The Student Outcomes of the B.S.C.E. are:

1. An ability to identify, formulate, and solve complex engineering problems by applying principles of engineering, science, and mathematics.
2. An ability to apply engineering design to produce solutions that meet specified needs with consideration of public health, safety, and welfare, as well as global, cultural, social, environmental, and economic factors.
3. An ability to communicate effectively with a range of audiences.
4. An ability to recognize ethical and professional responsibilities in engineering situations and make informed judgments, which must consider the impact of engineering solutions in global, economic, environmental, and societal contexts.
5. An ability to function effectively on a team whose members together provide leadership, create a collaborative and inclusive environment, establish goals, plan tasks, and meet objectives.
6. An ability to develop and conduct appropriate experimentation, analyze and interpret data, and use engineering judgment to draw conclusions.
7. An ability to acquire and apply new knowledge as needed, using appropriate learning strategies.

- Meet Marshall University admission requirements.
- Admission to the B.S.C.E. program requires a minimum composite ACT score of 21 with a math score of 24, or a minimum SAT composite of 980 with a math SAT of 560.
- Transfer students must have completed MTH 127 College Algebra-Expanded/MTH 130 College Algebra and MTH 132 Precalculus with Sci Applica.

For those needing to complete some requirements first, there is Pre-Engineering. Requirements for Pre-Engineering are a minimum composite ACT score of 19 with a math score of 19-23, or a minimum SAT composite of 900 with a math SAT of 460-550. Students who are admitted to the Pre-Engineering program generally will require an additional calendar year to complete the requirements for the B.S.C.E. degree. Transfer students must be eligible to take MTH 127 College Algebra-Expanded /MTH 130 College Algebra and MTH 132 Precalculus with Sci Applica.

The B.S.C.E. degree program requires a minimum of 124 credit hours of coursework as outlined below. In addition to fulfilling the university's requirements for graduation, B.S.C.E. students must maintain a minimum GPA of 2.0 in all professional courses. These professional courses include mathematics (MTH 229 Calculus/Analytic Geom I (CT) or above), required science courses, core engineering (ENGR) courses, engineering emphasis courses (CE), and courses used as technical electives. Entering students with a math ACT of 24-26 are required to take MTH 132 Precalculus with Sci Applica. Such students

will likely need an extra semester or summer term to satisfy B.S.C.E. requirements.

- General Education Course

- Milestone course: a key success marker for your major. See your advisor to discuss the importance of this course in your plan of study.

A minimum of 124 credit hours of coursework is required to complete the B.S.C.E. degree.

The Core Curriculum is designed to foster critical thinking skills and introduce students to basic domains of thinking that transcend disciplines. The Core applies to all majors. Information on specific classes in the Core can be found at https://www.marshall.edu/gened/.

Code	Title	Credit Hours
Core Curriculum		
Core I		
FYS 100	First Yr Sem Critical Thinking	3
Core I Critical Thinking		3
Core I Critical Thinking		3
Core II		
ENG 101	Beginning Composition	3
ENG 201	Advanced Composition	3
CMM 103	Fund Speech-Communication	3
or CMM 104H	Honors in Speech Comm	
or CMM 207	Bus & Prof Communication	
Core II Mathematics (Requirement met in major)		3
Core II Physical or Natural Science (Requirement met in major)		4
Core II Social Science		3
Core II Humanities		3
Core II Fine Arts		3
Additional University Requirements		
Writing Intensive		3
Writing Intensive		3
Multicultural or International		3
Major-Specific		
MTH 229	Calculus/Analytic Geom I (CT)	5
MTH 230	Calculus/Analytic Geom II	4
MTH 231	Calculus/Analytic Geom III	4
MTH 335	Ordinary Diff Equations	3
STA 345	Applied Prob and Stat	3
CHM 211	Principles of Chemistry I	3
CHM 217	Principles of Chem Lab I	2
CHM 212	Principles Chemistry II	3
CHM 218	Principles of Chem Lab II	2
PHY 211	University Physics I	4
PHY 202	General Physics I Laboratory	1
ENGR 103	First-Year Engineering Seminar	1
ENGR 104	The Engineering Profession	1
ENGR 111	Engineering Computations	3
ENGR 213	Statics	3
ENGR 214	Dynamics	3
ENGR 216	Mech of Deformable Bodies	3
ENGR 217	Engineering Co-Op Preparation	1
ENGR 222	Engr Cost Analysis & Economy	3
ENGR 318	Fluid Mechanics	3
ENGR 451	Intro to Proj Management	3
CE 452	Senior Seminar of Civil Engr	1
CE 453	Capstone Senior Design	3
CE 102	Introduction to CAD	2
CE 241	Introduction to Geomatics	3
CE 312	Structural Analysis	3
CE 319	Civil Engr Fluid Mechanics Lab	1
CE 321	Civil Engineer Materials	4
CE 322	Geotechnical Engineering	4
CE 331	Hydraulic Engineering	3
CE 342	Transportation Engineering	3
CE 351	Environmental Engineering	3

Code	Title	Credit Hours
CE Design, Design Elective and Technical Electives		
CE 453	Capstone Senior Design	3
To be eligible to take Capstone Senior Design (CE 453), students must have completed Introduction to Project Management (ENGR 451) and at least one CE Design Elective.		
CE Design Electives		*6*
Select at least two CE design electives from the following:		
CE 413	Reinforced Concrete	
or CE 414	Structural Steel Design	
CE 425	Foundation Engineering	
CE 434	Water/Wastewater Trtmt Dsgn	
CE 438	Pavement Design and Management	
or CE 443	Transportation Systems Design	
CE Electives		*6*
Select at least two CE electives from the following, excluding courses that are taken to satisfy the CE Design Electives:		
CE 341	Advanced Geomatics	
CE 413	Reinforced Concrete	
CE 414	Structural Steel Design	
CE 425	Foundation Engineering	
CE 426	Retaining Structures and Slope	
CE 433	Hydrologic Engineering	
CE 434	Water/Wastewater Trtmt Dsgn	
CE 438	Pavement Design and Management	
CE 443	Transportation Systems Design	
Any 300 -level or higher CE course not taken to satisfy a CE Design Elective or a CE Elective.		
Technical Elective		*3*
Select one technical elective that satisfies one of the criteria below:		
Any 300-level or higher CE course not taken to satisfy a CE Design Elective or CE Elective.		
Any 200-level or higher ENGR, ME, or EE course, with advance approval from the student's advisor and chair.		

Major Information

- Students are required to know and track their degree requirements for graduation or for entrance to a professional school.
- Course offerings and course attributes are subject to change each semester. Please consult each semester's schedule of courses for availability and attributes.

- General Education Course

- Milestone course: a key success marker for your major. See your advisor to discuss the importance of this course in your plan of study.

Course	Title	Credit Hours
First Year		
First Semester		
ENGR 103	First-Year Engineering Seminar	1
ENGR 104	The Engineering Profession	1
MTH 229	Calculus/Analytic Geom I (CT)	5
ENG 101	Beginning Composition	3
FYS 100	First Yr Sem Critical Thinking	3
CMM 103 or CMM 207	Fund Speech-Communication or Bus & Prof Communication	3
	Credit Hours	**16**
Second Semester		
CE 102	Introduction to CAD	2
ENGR 111	Engineering Computations	3
MTH 230	Calculus/Analytic Geom II	4
ENG 201	Advanced Composition	3
PHY 211	University Physics I	4
PHY 202	General Physics I Laboratory	1
	Credit Hours	**17**
Second Year		
First Semester		
ENGR 213	Statics	3
CE 241	Introduction to Geomatics	3
MTH 231	Calculus/Analytic Geom III	4
CHM 211	Principles of Chemistry I	3
CHM 217	Principles of Chem Lab I	2
ENGR 217	Engineering Co-Op Preparation	1
	Credit Hours	**16**
Second Semester		
ENGR 214	Dynamics	3
ENGR 216	Mech of Deformable Bodies	3
ENGR 222	Engr Cost Analysis & Economy	3
CHM 212	Principles Chemistry II	3
CHM 218	Principles of Chem Lab II	2
MTH 335	Ordinary Diff Equations	3
	Credit Hours	**17**
Third Year		
First Semester		
ENGR 318	Fluid Mechanics	3
CE 319	Civil Engr Fluid Mechanics Lab	1
CE 312	Structural Analysis	3
CE 321	Civil Engineer Materials	4
STA 345	Applied Prob and Stat	3
	Credit Hours	**14**
Second Semester		
CE 322	Geotechnical Engineering	4
CE 331	Hydraulic Engineering	3
CE 342	Transportation Engineering	3
CE 351	Environmental Engineering	3
CE Design Elective		3
	Credit Hours	**16**
Fourth Year		
First Semester		
CE Design Elective		3
CE Elective		3
ENGR 451	Intro to Proj Management	3
CE 452	Senior Seminar of Civil Engr	1
Core II Social Science		3
Core II Humanities		3
	Credit Hours	**16**
Second Semester		
CE Elective		3
CE 453	Capstone Senior Design	3
Technical Elective		3
Core II Fine Arts		3
	Credit Hours	**12**
	Total Credit Hours	**124**

Civil and Environmental Engineering, Accelerated Master's Degree

Accelerated Master's Degree In Civil and Environmental Engineering

Contact: Dr. Isaac Wait, Chair
isaac.wait@marshall.edu

Undergraduates accepted to an Accelerated Master's Degree program can begin taking master's level classes while still in the undergraduate program. Up to 12 graduate credits can be used to fulfill requirements for both the undergraduate and the master's degrees, effectively reducing the cost of, and time to, degree. Graduates of this program will be prepared for direct entry into the job market or continuation of graduate study towards a Ph.D or other professional program.

The existing degree requirement for the undergraduate **Bachelor of Science in Civil Engineering (B.S.C.E.)** is 124 credit hours, which includes ENGR 451 (Project Management, 3 credit hours), two Civil Engineering electives (6 credit hours) and one technical elective" (3 credit hours). AMD students would be permitted to take the graduate level EM 660 (Project Management) in place of ENGR 451, and three graduate level elective courses in place of the Civil Engineering electives and technical elective.

Eligibility Requirements for Accelerated Master's Degree Program

- completed at least 90 hours toward the bachelor's degree;
- at least a 3.30 overall undergraduate GPA;
- at least a 3.30 GPA in the major;

Engineering Management, Accelerated Master's Degree

Accelerated Master's Degree In Engineering with a Major in Engineering Management

Contact: Dr. Isaac Wait, Chair
isaac.wait@marshall.edu

Undergraduates accepted to an Accelerated Master's Degree program can begin taking master's level classes while still in the undergraduate program. Up to 12 graduate credits can be used to fulfill requirements for both the undergraduate and the master's degrees, effectively reducing the cost of, and time to, degree. Graduates of this program will be prepared for direct entry into the job market or continuation of graduate study towards a Ph.D or other professional program.

The existing degree requirement for the undergraduate Bachelor of Science in Civil Engineering (B.S.C.E.) is 124 credit hours, which includes ENGR 451 Intro to Proj Management (3 credit hours), two Civil Engineering electives (6 credit hours) and one technical elective (3 credit hours). Engineering Management AMD students would be permitted to take the graduate level EM 660 Project Management in place of ENGR 451, and EM 668 Operations Management in place of the Technical Elective. AMD students would also be permitted to take two graduate#level ENGR, CE, or ENVE courses that are approved in advance by their academic advisor that will count in place of the Civil Engineering electives required by the B.S.C.E. degree, and that will be counted towards elective courses required for the M.S.E.#EM degree.

Eligibility Requirements for Accelerated Master's Degree Program

- completed at least 90 hours toward the bachelor's degree;
- at least a 3.30 overall undergraduate GPA;
- at least a 3.30 GPA in the major;

Department of Computer Sciences and Electrical Engineering

Contacts: Dr. Paulus Wahjudi, chair (wahjudi@marshall.edu)
Website: http://www.marshall.edu/cecs (http://www.marshall.edu/cecs/)

Programs

- Computer and Information Security, B.S. (p. 468)
- Computer and Information Security, Minor (p. 470)
- Computer Science, Accelerated Master's degree (p. 471)
- Computer Science, B.S. (p. 471)
- Computer Science, Minor (p. 473)
- Cybersecurity, Accelerated Master's Degree (p. 473)
- Data Science, Accelerated Master's Degree (p. 474)
- Electrical and Computer Engineering, B.S.E.E. (p. 475)
- Pre-Computer Science (p. 477)

Courses

- General Education Course

Computer Science

CS 101 Coding **1 Credit hour**
This course is designed to expose students to coding with no previous programming experience. The topic covers basic programming with software development methodologies.
Grade Mode: Normal Grading Mode

CS 105 Expl World with Computing (CT) **3 Credit hours**
Central principles and big ideas of computing: problem-solving, computational and critical thinking, abstraction, creativity, reasoning, data, algorithms, recursion, visualization, and limits of computation. Solve real-world problems with computing.
Pre-req: ACT Math with a score of 17 or SAT Verbal Before March 16 with a score of 400 or SAT MATH SECTION SCORE with a score of 440 or Placement Math After SP17 with a score of 101 or MTH 102 with a minimum grade of C or MTH 102B with a minimum grade of C or MTH 127 with a minimum grade of C or MTH 130 with a minimum grade of C or MTH 132 with a minimum grade of C or MTH 229 with a minimum grade of C or MTH 229H with a minimum grade of C.
Attributes: Critical Thinking, Digital Humanities
Grade Mode: Normal Grading Mode

CS 110 Computer Science I **3 Credit hours**
Pre-req: ACT Math with a score of 24 or SAT Mathematics Before Mar. 16 with a score of 560 or SAT MATH SECTION SCORE with a score of 580 or MTH 127 or MTH 130 and MTH 132 (may be taken concurrently) or MTH 229 (may be taken concurrently) or MTH 229H (may be taken concurrently).
Concurrent PR: MTH 132 or MTH 229 or MTH 229H
Attributes: Digital Humanities
Grade Mode: Normal Grading Mode

CS 110H Computer Science Honors **3 Credit hours**
Object-oriented and algorithmic problem solving principles and techniques; programming with classes in an integrated programming environment; and program debugging.
Pre-req: ACT Math with a score of 24 or SAT Mathematics Before Mar. 16 with a score of 560 or SAT MATH SECTION SCORE with a score of 580 or MTH 127 or MTH 130 and MTH 132 (may be taken concurrently) or MTH 129 (may be taken concurrently) or MTH 129H (may be taken concurrently).
Concurrent PR: MTH 132 or MTH 129 or MTH 129H
Grade Mode: Normal Grading Mode

CS 120 Computer Science II **3 Credit hours**
Object-oriented analysis and design, advanced programming with classes, arrays, strings, sorting, searching, I/O, GUI development, system life cycle and software development methodologies. CR/PR: CS 110
Pre-req: CS 110 with a minimum grade of D or CS 110H with a minimum grade of D.
Attributes: Digital Humanities
Grade Mode: Normal Grading Mode

CS 205 Scientific Computing **3 Credit hours**
An introduction to computer programming, software design, and algorithm analysis and implementation. Abstract concepts illustrated with examples and exercises drawn from the mathematical and physical sciences. Primarily for non-CS majors.
Pre-req: MTH 140 or MTH 229 (may be taken concurrently) or MTH 229H (may be taken concurrently).
Concurrent PR: MTH 229 or MTH 229H
Grade Mode: Normal Grading Mode

CS 210 Data Structures and Algorithms **3 Credit hours**
Design and implementation of data structures including stacks, queues, lists, trees, heaps, balanced trees, and graphs. Other topics include hasing, threading, data parsing, program testing, correctness, efficiency, and exceptions. Data structures including stacks, queues, lists, trees, graphs, priority queues, and dictionaries.
Pre-req: CS 120 with a minimum grade of D and MTH 220 (may be taken concurrently) with a minimum grade of D.
Concurrent PR: MTH 220
Grade Mode: Normal Grading Mode

CS 215 Adv Data Struct and Algorithms **3 Credit hours**
Advanced techniques for designing and analyzing algorithms, including asymptotic analysis; data structures; divide-and-conquer algorithms and recurrences; greedy algorithms; dynamic programming; graph algorithms; randomized algorithms; and NP-complete problems.
Pre-req: CS 210 with a minimum grade of D and (MTH 229 with a minimum grade of D or MTH 229H with a minimum grade of D) and MTH 220 (may be taken concurrently) with a minimum grade of D.
Concurrent PR: MTH 220
Grade Mode: Normal Grading Mode

CS 280 Special Topics **1-4 Credit hours**
EMERGING TOPICS IN COMPUTER SCIENCE.
Grade Mode: Normal Grading Mode

CS 281 Special Topics **1-4 Credit hours**
EMERGING TOPICS IN COMPUTER SCIENCE.
Grade Mode: Normal Grading Mode

CS 282 Special Topics **1-4 Credit hours**
EMERGING TOPICS IN COMPUTER SCIENCE.
Grade Mode: Normal Grading Mode

CS 283 Special Topics **1-4 Credit hours**
EMERGING TOPICS IN COMPUTER SCIENCE.
Grade Mode: Normal Grading Mode

CS 300 Programming Languages **3 Credit hours**
Pre-req: CS 210 with a minimum grade of D.
Grade Mode: Normal Grading Mode

CS 305 Software Engineering **3 Credit hours**
This course provides a broad introduction to software engineering theories, methods, and tools. Requires substantial writing.
Topics include requirements engineering, analysis and design, implementation, versioning, and testing. This course provides a broad introduction to software engineering theories, methods, and tools. Requires substantial writing. Topics include requirements engineering, analysis and design, implementation, versioning, and testing.
Pre-req: MTH 220 and CS 210 and ENG 354 (may be taken concurrently).
Concurrent PR: ENG 354
Grade Mode: Normal Grading Mode

CS 310 Software Engineering II **3 Credit hours**
Pre-req: CS 305 with a minimum grade of D.
Grade Mode: Normal Grading Mode

CS 315 Software Quality Assurance **3 Credit hours**
Testing techniques and validation of system requirements. Design reviews and code inspections; unit, integration, system, regression, load, stress, user acceptance, and regression testing; statistical testing; test strategies and project metrics.
Pre-req: CS 310 and MTH 345.
Grade Mode: Normal Grading Mode

CS 320 Internetworking **3 Credit hours**
Principles and issues in interconnecting multiple physical networks into a coordinated system, operation of internet protocols in the interconnected environment, and design of applications to operate in this environment.
Pre-req: CS 210 and (MTH 229 or MTH 229H).
Grade Mode: Normal Grading Mode

CS 330 Operating Systems **3 Credit hours**
Modern operating systems design and implementation: multi-tasking and time sharing, concurency and synchronization, interprocess communication, resource scheduling, memory management, deadlocks, I/O, file systems, and security.
Pre-req: CS 210.
Grade Mode: Normal Grading Mode

CS 351 Computer Sciences Co-Op **0 Credit hours**
A supervised experience in which the student works for a company to gain practical experience in a students major.
Pre-req: ENGR 217 with a minimum grade of D.
Grade Mode: Credit/No Credit Grade Only

CS 360 Automata and Formal Languages **3 Credit hours**
Basic theoretical concepts are introduced, including finite state automata, regular expressions, context-free grammars, pushdown automata, Turing machines, recursively enumerable languages, the halting problem, and the Church-Turing thesis. Basic theoretical concepts are introduced, including finite state automata, regular expressions, context-free grammars, pushdown automata, Turing machines, recursively enumerable languages, the halting problem, and the Church-Turing thesis.
Pre-req: MTH 220 and CS 210.
Grade Mode: Normal Grading Mode

CS 370 Computer Graphics **3 Credit hours**
Mathematical theory and practical tools and techniques for generating realistic pictures using computers. This is a project-centered course and involves extensive programming using the open GL standard.
Pre-req: CS 210 with a minimum grade of D.
Grade Mode: Normal Grading Mode

CS 402 Computer Architecture **3 Credit hours**
Design and analyze structure of major hardware components of computers including: ALU, instruction sets, memory hierarchy, parallelism through multicore and many core, storage systems and interfaces.
Pre-req: CS 300 with a minimum grade of D.
Grade Mode: Normal Grading Mode

CS 404 High Performance Computing **3 Credit hours**
Software design and development targeting high performance computing architectures. Multi-core and many-core systems: I/O, file systems, performance metrics. Programming models include MPI, OpenMP, MapReduce, CUDA, OpenCL.
Pre-req: CS 402.
Grade Mode: Normal Grading Mode

CS 405 Computing for Bioinformatics **3 Credit hours**
Study of computational algorithms and programming techniques for various bioinformatics tasks including parsing DNA files, sequence alignments, tree construction, clustering, species identification, principal component analysis, correlations, and gene expression arrays.
Pre-req: CS 215.
Grade Mode: Normal Grading Mode

CS 410 Database Engineering **3 Credit hours**
Study of data models, data description languages, query languages including relational algebra and SQL, logical and physical database design, transactions, backup and recovery. Design and implementation of a database application.
Pre-req: CS 210 with a minimum grade of D.
Grade Mode: Normal Grading Mode

CS 412 Embedded Systems **3 Credit hours**
The design of systems containing embedded computers. Micro-controller technology, assembly language and C programming, input/output interfacing, data acquisition hardware, interrupts, and timing. Real-time operating systems and application programming. Application examples.
Pre-req: CS 402 with a minimum grade of D or EE 340 with a minimum grade of D.
Grade Mode: Normal Grading Mode

CS 415 Data Mining **3 Credit hours**
Covers (1) the process of knowledge discovery, (2) algorithms (association rules, classification, and clustering), and (3) real-world applications. Focuses on efficient data mining algorithms and scaling up data mining methods.
Pre-req: CS 215 and CS 410.
Grade Mode: Normal Grading Mode

CS 425 Computational Intelligence **3 Credit hours**
Genetic algorithms, evolutionary strategies, and genetic programming. Methods of knowledge representation using rough sets, type-1 fuzzy sets, and type-2 fuzzy sets. Neural network architectures and their learning algorithms. Genetic algorithms, evolutionary strategies, and genetic programming. Methods of knowledge representation using rough sets, type-1 fuzzy sets, and type-2 fuzzy sets. Neural network architectures and their learning algorithms.
Pre-req: CS 300.
Grade Mode: Normal Grading Mode

CS 430 Cyber Security **3 Credit hours**
Concepts and issues in physical and cyber security; technological vulnerabilities found in operating systems, database servers, web servers, internet, and local area networks; developing defensive and offensive security measures.
Pre-req: CS 320 with a minimum grade of D.
Grade Mode: Normal Grading Mode

CS 435 Cyber Risk **3 Credit hours**
Advanced course on the functions and purposes of the latest development in cyber security techniques and tools used to create, secure, protect and remediate cyber-infrastructures from various cyber threats.
Pre-req: CS 430 with a minimum grade of D or CS 340 with a minimum grade of D.
Grade Mode: Normal Grading Mode

CS 440 Digital Image Processing **3 Credit hours**
Mathematical techniques, algorithms, and software tools for image sampling, quantization, coding and compression, enhancement, reconstruction, and analysis.
Pre-req: CS 210 and MTH 329.
Grade Mode: Normal Grading Mode

CS 452 Natural Language Processing **3 Credit hours**
Fundamental algorithms and computational models for core tasks in natural language processing: word and sentence tokenization, parsing, information and meaning extraction, spelling correction, text summarization, question answering, and sentiment analysis.
Pre-req: (CS 215 and MTH 220).
Grade Mode: Normal Grading Mode

CS 455 Systems Engineering **3 Credit hours**
Tools and techniques for optimizing the design and construction of software-intensive systems by considering system issues and making engineering tradeoffs in conflicting criteria and interacting decision parameters.
Pre-req: CS 330 and CS 340 and CS 350.
Grade Mode: Normal Grading Mode

CS 475 Internship **3-12 Credit hours**
An in-depth and hands-on involvement in a real-world project under direct professional supervision. The project may be on-campus or off-campus. Requires prior apporval of the internship director, who is a member of the computer science faculty.
Pre-req: CS 300 with a minimum grade of D or CS 215 with a minimum grade of D.
Grade Mode: Credit/No Credit Grade Only

CS 480 Special Topics **1-4 Credit hours**
EMERGING TOPICS IN COMPUTER SCIENCE.
Grade Mode: Normal Grading Mode

CS 481 Special Topics **1-4 Credit hours**
EMERGING TOPICS IN COMPUTER SCIENCE.
Grade Mode: Normal Grading Mode

CS 482 Special Topics **1-4 Credit hours**
EMERGING TOPICS IN COMPUTER SCIENCE.
Grade Mode: Normal Grading Mode

CS 483 Special Topics **1-4 Credit hours**
EMERGING TOPICS IN COMPUTER SCIENCE.
Grade Mode: Normal Grading Mode

CS 485 Independent Study **1-4 Credit hours**
EMERGING TOPICS IN COMPUTER SCIENCE.
Grade Mode: Normal Grading Mode

CS 486 Independent Study **1-4 Credit hours**
EMERGING TOPICS IN COMPUTER SCIENCE.
Grade Mode: Normal Grading Mode

CS 487 Independent Study **1-4 Credit hours**
EMERGING TOPICS IN COMPUTER SCIENCE.
Grade Mode: Normal Grading Mode

CS 488 Independent Study **1-4 Credit hours**
EMERGING TOPICS IN COMPUTER SCIENCE
Grade Mode: Normal Grading Mode

CS 490 Senior Project **3 Credit hours**
Application of technical and professional skills in solving a real-world problem in a team environment. Discuss professional code of conduct, societal issues, and transition from student to industry professional.
Pre-req: CS 310 with a minimum grade of D and CS 410 with a minimum grade of D.
Attributes: Capstone Course
Grade Mode: Normal Grading Mode

CS 491 Senior Project II **3 Credit hours**
Senior capstone experience. Application of technical and professional skills in constructing and testing a real-world problem in a team environment.
Pre-req: CS 490.
Grade Mode: Normal Grading Mode

Computer & Info Security

CYBR 210 Comp and Info Sec Principle **3 Credit hours**
Introduction to the various technical and administrative aspects of Computer and Information Security. Understanding key issues associated with protecting information assets, determining the protection needed and response to security incidents.
Pre-req: CS 105 or CS 110 or CS 110H.
Grade Mode: Normal Grading Mode

CYBR 240 Information Security Policies **3 Credit hours**
Introduction to information security policies, sociological and psychological issues in policy implementation in general. Discuss the lifecycle of policy creation, enactment in different domains of security and policy structure.
Pre-req: CS 105 with a minimum grade of D or CS 110 with a minimum grade of D or CS 110H with a minimum grade of D.
Grade Mode: Normal Grading Mode

CYBR 310 Introduction to Cryptography **3 Credit hours**
This course covers the basic aspects of modern crytography, including block ciphers, pseudorandom functions, symmetric encryption, Hash functions, message authentication, number theoretic primitives, public-key encryption, digital signatures and zero knowledge proofs.
Pre-req: CS 210 and (STA 225 or STA 345).
Grade Mode: Normal Grading Mode

CYBR 330 Cyber Security **3 Credit hours**
Concepts and issues in physical and cyber security; technical vulnerabilities found in operating systems, database servers, Web servers, Internet, and local area networks; developing defensive and offensive security measures.
Pre-req: CS 320 with a minimum grade of D.
Grade Mode: Normal Grading Mode

CYBR 350 Cyber System Administration **3 Credit hours**
Introduction of System Administration and related topics, including trouble-shooting system and network problems, hardware and software configuration and installation, basic scripting, and security aspects of Internet hosts.
Pre-req: CS 320 with a minimum grade of D.
Grade Mode: Normal Grading Mode

CYBR 360 Cyber Infrastructure Security **3 Credit hours**
Comprehensive analysis on the utilization and augmentation of cyber security technologies to harden cyber infrastructure and its interconnected cyber-physical systems against various attacks.
Pre-req: CS 320 with a minimum grade of D.
Grade Mode: Normal Grading Mode

CYBR 400 Computer Security Design **3 Credit hours**
Foundation technical and analytical skills to implement comprehensive computer security that encompass designing secure systems, information security, protecting information assets, managing computer security, risk mitigation strategies, and incident response.
Pre-req: CYBR 350.
Grade Mode: Normal Grading Mode

CYBR 435 Cyber Risk **3 Credit hours**
Advanced course on the functions and purposes of the latest development in cyber security techniques and tools used to create, secure, protect and remediate cyber-infrastructures from various cyber threats.
Pre-req: CYBR 330 with a minimum grade of D or CS 330 with a minimum grade of D.
Grade Mode: Normal Grading Mode

CYBR 442 Cyber Operations **3 Credit hours**
Study of various concepts and aspects in choosing, deploying, supporting, troubleshooting and securing various local and distributed components of a cyber operation with consideration of the human factor.
Pre-req: CYBR 350 and CYBR 360.
Grade Mode: Normal Grading Mode

CYBR 475 Internship **3 Credit hours**
An in-depth and hands-on involvement in a real-world project under direct professional supervision. The project my be on-campus or off-campus.
Grade Mode: Normal Grading Mode

CYBR 480 Special Topics **1-4 Credit hours**
Study of an advanced topic not normally covered in other courses.
Grade Mode: Normal Grading Mode

CYBR 481 Special Topics **1-4 Credit hours**
Study of an advanced topic not normally covered in other courses.
Grade Mode: Normal Grading Mode

CYBR 482 Special Topics **1-4 Credit hours**
Study of an advanced topic not normally covered in other courses.
Grade Mode: Normal Grading Mode

CYBR 483 Special Topics **1-4 Credit hours**
Study of an advanced topic not normally covered in other courses.
Grade Mode: Normal Grading Mode

CYBR 484 Special Topics **1-4 Credit hours**
Study of an advanced topic not normally covered in other courses.
Grade Mode: Normal Grading Mode

CYBR 485 Special Topics **1-4 Credit hours**
Study of an advanced topic not normally covered in other courses.
Grade Mode: Normal Grading Mode

CYBR 486 Independent Study **1-4 Credit hours**
Independent study for selected juniors and seniors under supervision of faculty; may be repeated only once.
Grade Mode: Normal Grading Mode

CYBR 487 Independent Study **1-4 Credit hours**
Independent study for selected juniors and seniors under supervision of faculty; may be repeated only once.
Grade Mode: Normal Grading Mode

CYBR 488 Independent Study **1-4 Credit hours**
Independent study for selected juniors and seniors under supervision of faculty; may be repeated only once.
Grade Mode: Normal Grading Mode

CYBR 489 Independent Study **1-4 Credit hours**
Independent study for selected juniors and seniors under supervision of faculty; may be repeated only once.
Grade Mode: Normal Grading Mode

CYBR 490 Senior Project **3 Credit hours**
Application of technical and profesional skills in solving a real-world problem in a team environment. Discuss professional code of conduct, societal issues, and transition from student to industry professional.
Pre-req: CYBR 330.
Attributes: Capstone Course
Grade Mode: Normal Grading Mode

Electrical Engineering

EE 202 Circuits II **3 Credit hours**
The transient response of first and second order systems. Balanced three-phase systems. Mutual inductance, transformers, resonance, and two-port networks.
Pre-req: ENGR 201 with a minimum grade of D and MTH 230 with a minimum grade of D.
Grade Mode: Normal Grading Mode

EE 204 Intro to Digital Systems **3 Credit hours**
Number systems, digital components and systems, Boolen switching algebra; the analysis and design of combinational and sequential circuits; introduction to computer architecture.
Pre-req: MTH 220 with a minimum grade of D.
Grade Mode: Normal Grading Mode

EE 210 Programming Lab **3 Credit hours**
This course introduces students to the fundamental principles of programming for solving engineering programs. It familiarizes students with the process of translating real-life engineering problems to computation problems.
Pre-req: CS 110.
Grade Mode: Normal Grading Mode

EE 211 Intro to Computer Engineering **3 Credit hours**
Provide a study of Data Structure, operating systems' concepts, HW designed methods and relationship between hardware and software.
Pre-req: EE 210 with a minimum grade of D.
Grade Mode: Normal Grading Mode

EE 310 Electromagnetic Fields **3 Credit hours**
This course provdies in depth coverage of all aspects electromagnetics, with a focus on field and wave generation and propagation. The course will focus on more practical aspects of E-M theory.
Pre-req: EE 202 with a minimum grade of D and MTH 335 with a minimum grade of D.
Grade Mode: Normal Grading Mode

EE 320 Analysis of Signals & Systems **3 Credit hours**
This class introduces students to concepts of probability and random variables necessary for study of signals and systems involving uncertainty; applications to elementary problems in detection, signal processing and communication.
Pre-req: MTH 335.
Grade Mode: Normal Grading Mode

EE 330 Random Signals and Systems **3 Credit hours**
This course will introduce the students to the fundamental concepts of probabiliity theory applied to engineering problems, including elementary set operations, sample spaces and probability laws, conditional probability and independence.
Pre-req: EE 320 with a minimum grade of D.
Grade Mode: Normal Grading Mode

EE 340 Computer Architecture & Design **4 Credit hours**
This course is a study of the factors influencing the design of hardware and software elements of computer systems. Topics include: instruction set design; cache and virtual memory organizations.
Pre-req: EE 211 with a minimum grade of D.
Grade Mode: Normal Grading Mode

EE 350 Elect Properties of Materials **3 Credit hours**
Introduction to basic physical properties of solid materials; some solid state physics employed, but major emphasis is on engineering applications based on semiconducting, magnetic, dielectric and superconducting phenomena.
Pre-req: EE 202 with a minimum grade of D.
Grade Mode: Normal Grading Mode

EE 360 Control Systems **3 Credit hours**
Application of state variable and frequency domain techniques to modeling, analysis and synthesis of single input, single output linear control systems.
Pre-req: EE 202 with a minimum grade of D.
Grade Mode: Normal Grading Mode

EE 370 Electric Machinery **3 Credit hours**
Fundamentals of energy-handling electric circuits, analysis of power electric circuits, elements of linear and rotating electric machinery, induction, and DC machinery.
Pre-req: EE 310 with a minimum grade of D.
Grade Mode: Normal Grading Mode

EE 375 Communcation Systems I **3 Credit hours**
Introduction to the fundamental concepts of computer communication networks. Topics include the OSI reference model, the physical data link, network, and transport layers, TCP/IP, LANs, ALOHA, routing and flow controls.
Pre-req: EE 310 with a minimum grade of D and EE 320 (may be taken concurrently) with a minimum grade of D.
Concurrent PR: EE 320
Grade Mode: Normal Grading Mode

EE 380 Microprocessor Design **3 Credit hours**
Hardware and software for real-time microprocessor-based digital systems. Basic concepts of on-chip components related to digital system functionality. Introduction to 32-bit machines with treatment of 16- and 8- bit machines.
Pre-req: EE 204 with a minimum grade of D and EE 340 with a minimum grade of D.
Grade Mode: Normal Grading Mode

EE 401 Communication Systems II **3 Credit hours**
This course will cover topics in the field of RF/microwave engineering, such as transmission lines, waveguides, impedance matching, microwave resonators, RF filters, RF amplifiers and an introduction to antenna design.
Pre-req: EE 375 with a minimum grade of D.
Grade Mode: Normal Grading Mode

EE 410 Electrical Engineering Design **3 Credit hours**
Application of design process and project engineering as practiced in industry; team approach to the design process; development of a project proposal; proposed project implemented in EE 420.
Grade Mode: Normal Grading Mode

EE 411 Intro to Digital IC Design **3 Credit hours**
This course covers the analysis and design of digital integrated circuits using CMOS technology. The course emphasizes design of circuit layout, and HSPICE and IRSIM for simulations, lab included.
Pre-req: ENGR 204.
Grade Mode: Normal Grading Mode

EE 412 Computer Engineering Design **3 Credit hours**
Introduction to the design process and project engineering as practiced in industry; student teams apply the design process by developing a project from proposal; proposed project implemented in EE 420.
Grade Mode: Normal Grading Mode

EE 415 Intro VHDL Design & HW Systems **3 Credit hours**
This course provides fundamental of hardware design methodologies and modeling. It covers the essentials of HDL, embedded C and hardware-embedded systems using VHDL language, Lab included.
Pre-req: EE 380 with a minimum grade of D.
Grade Mode: Normal Grading Mode

EE 419 Intr Digital Signal Processing **3 Credit hours**
This course covers the transformation, manipulation of signals. It introduces the concepts of discrete-time, discrete frequency domains, representations and analyses of systems, and filter designs, lab is included.
Pre-req: EE 350.
Grade Mode: Normal Grading Mode

EE 420 Capstone Design **3 Credit hours**
Application of the design process and project engineering as practiced in industry; team approach to the design process; completion of project based on proposal from EE 410 or EE 412.
Pre-req: EE 410 with a minimum grade of D or EE 412 with a minimum grade of D.
Attributes: Capstone Course, No Textbook Required
Grade Mode: Normal Grading Mode

EE 425 Electric Power Systems **3 Credit hours**
The course emphasizes power engineering area that includes power generation, transmission, and distribution.
Pre-req: EE 202 with a minimum grade of D.
Grade Mode: Normal Grading Mode

EE 440 Digital Control Systems **3 Credit hours**
Feedback systems in which a digital computer is used to implement the control law; Z-transform and time domain methods serve as a basis for control systems design.
Pre-req: EE 360.
Grade Mode: Normal Grading Mode

EE 445 Radio Freq & Microwave Engr **3 Credit hours**
Fundamental Radio Frequency (RF) and microwave circuit analysis; return loss, insertion loss; transmission lines, lumped elements, impedence matching; theory, analysis and design of basic RF and microwave passive circuits.
Pre-req: EE 320.
Grade Mode: Normal Grading Mode

EE 447 Real-Time Digital Processing **3 Credit hours**
This course provides an introduction to the principles of real-time digital signal processing and hands-on development of real-time signal processing algorithms.
Pre-req: EE 320.
Grade Mode: Normal Grading Mode

EE 448 Power Electronics **3 Credit hours**
Principles of power electronics. Including understanding of power semiconductor devices, passive components, basic switching circuits, AC/DC, DC/DC, DC/AC converters and their applications.
Pre-req: (ENGR 202 with a minimum grade of D or EE 202 with a minimum grade of D) and EE 310 with a minimum grade of D.
Grade Mode: Normal Grading Mode

EE 480 Special Topics **1-4 Credit hours**
Special Topics
Grade Mode: Normal Grading Mode

EE 481 Special Topics **1-4 Credit hours**
Special Topics
Grade Mode: Normal Grading Mode

EE 482 Special Topics **1-4 Credit hours**
Special Topics
Grade Mode: Normal Grading Mode

EE 483 Special Topics **1-4 Credit hours**
Special Topics
Grade Mode: Normal Grading Mode

EE 485 Independent Study **1-4 Credit hours**
Independent Study
Grade Mode: Normal Grading Mode

EE 486 Independent Study **1-4 Credit hours**
Independent Study
Grade Mode: Normal Grading Mode

EE 487 Independent Study **1-4 Credit hours**
Independent Study
Grade Mode: Normal Grading Mode

EE 488 Independent Study **1-4 Credit hours**
Independent Study
Grade Mode: Normal Grading Mode

EE 502 Instrumentation **3 Credit hours**
Grade Mode: Normal Grading Mode

EE 503 Power Systems **3 Credit hours**
Grade Mode: Normal Grading Mode

EE 504 Principles and Practices-EE **2 Credit hours**
Grade Mode: Normal Grading Mode

EE 510 Design Digital Systems **3 Credit hours**
This course provides fundamental understanding of Digital circuits. Students learn the essentials of digital circuit operation, design and simulate digital circuits using the techniques of practicing electrical and computer engineers.
Grade Mode: Normal Grading Mode

EE 511 Analog Computation **3 Credit hours**
Grade Mode: Normal Grading Mode

EE 514 Linear Systems **3 Credit hours**
Grade Mode: Normal Grading Mode

EE 515 Digital Signal Processing **3 Credit hours**
Grade Mode: Normal Grading Mode

EE 529 Linear Systems & Control **3 Credit hours**
The course provides a rigorous introduction to the analysis and control of linear dynamical systems in the time domain. The course introduces the fundamentals of linear spaces and linear operator theory.
Grade Mode: Normal Grading Mode

EE 530 Cyber-Physical Systems **3 Credit hours**
This course provides an introduction to modeling and analysis of cyber-physical systems. Several models of continuous-time systems and discrete-time systems are introduced.
Grade Mode: Normal Grading Mode

EE 535 Power System Protection **3 Credit hours**
This course covers the power system faults and application of relays for power system protection. Symmetrical components as applied fault currents. Introduction to digital filtering, microprocessor, computer simulation for relays.
Grade Mode: Normal Grading Mode

EE 585 Independent Study **1-4 Credit hours**
Grade Mode: Normal Grading Mode

EE 586 Independent Study **1-4 Credit hours**
Grade Mode: Normal Grading Mode

EE 587 Independent Study **1-4 Credit hours**
Grade Mode: Normal Grading Mode

EE 588 Independent Study **1-4 Credit hours**
Grade Mode: Normal Grading Mode

EE 601 Power Systems Analysis **3 Credit hours**
Grade Mode: Normal Grading Mode

EE 602 Random Signals & Noise **3 Credit hours**
This course provides an introduction to the fundamentals of random variables, random signals, and simulation of random phenomena.
Grade Mode: Normal Grading Mode

EE 603 Protectve Relaying in Powr Sys **3 Credit hours**
Grade Mode: Normal Grading Mode

EE 604 Electrical Machinery **3 Credit hours**
Grade Mode: Normal Grading Mode

EE 605 Comptr Meth in Power Sys Anly **3 Credit hours**
Grade Mode: Normal Grading Mode

EE 606 Electrical Analysis **3 Credit hours**
This course covers Laplace transform for boundary-value problem, applications to control theory, frequency response of ordinary differential equations, linear algebra techniques; eigenvalue analysis of linear systems and in multivariate optimization.
Grade Mode: Normal Grading Mode

EE 607 Adv Electrical Engr **3 Credit hours**
This course covers complex functions, complex integration, vectors, matrices, functions of matrices, Cayley-Hamilton theorem, state-space modeling, optimization techniques, least squares technique, total least squares, and numerical techniques.
Grade Mode: Normal Grading Mode

EE 608 Research Methods **3 Credit hours**
Overview of research methods in engineering. Research theory, design, ethics, and practice. Research plan and proposal. Experimental, numerical, and analytical research. Reviewing literatures, collect and analyze data quantitatively and qualitatively.
Grade Mode: Normal Grading Mode

EE 611 Digital Design **3 Credit hours**
This course covers the CMOS circuits. Design approaches with emphasis placed on structured full custom design, MOS device, critical interconnect and gate characteristics. CMOS logic design from transistor to fabrication.
Grade Mode: Normal Grading Mode

EE 615 Real Time Systems **3 Credit hours**
This course covers the Designing real-time embedded systems from a hardware and software perspective. Communications and signal processing systems. Applications to seismic monitoring, process control, and biomedical systems.
Grade Mode: Normal Grading Mode

EE 618 Data & Comm Networks **3 Credit hours**
This course introduces the underlying concepts behind networking using the internet and its protocols as examples.
Grade Mode: Normal Grading Mode

EE 624 Wireless Communication **3 Credit hours**
This course introduces fundamental technologies for wireless communication.
Grade Mode: Normal Grading Mode

EE 630 Robust Control **3 Credit hours**
Linear systems, norms for signals and systems, stability and performance, uncertainty and robustness, parameterization of stabilizing controllers, algebraic Riccati equations, H2 control, and H infinity control.
Grade Mode: Normal Grading Mode

EE 631 Optimal Control **3 Credit hours**
The course introduces the theory of Optimal Control. It covers evaluation methods for control signals that satisfy some physical constraints and minimize or maximize some performace measures.
Grade Mode: Normal Grading Mode

EE 636 Power System Operation **3 Credit hours**
This course covers modern power systems, operational, control problems, solution techniques. State estimation, contingency analysis, load-frequency control and automatic generation control, load flow analysis and external equivalents for steady-state operations.
Grade Mode: Normal Grading Mode

EE 638 Nonlinear Sys & Control **3 Credit hours**
The course provides a rigorous introduction to the analysis and control of nonlinear dynamical systems in time domain.
Grade Mode: Normal Grading Mode

EE 639 Renew Energy & Dist Generation **3 Credit hours**
This course covers the fundamentals of energy and sustainability; power efficiency; hydro, wind, solar, fuel systems; Converters and controllers for integration of renewable energy sources; Smart grid, hybrid generation systems.
Grade Mode: Normal Grading Mode

EE 642 Pattern Recognition 1 **3 Credit hours**
Grade Mode: Normal Grading Mode

EE 643 Pattern Recognition 2 **3 Credit hours**
Grade Mode: Normal Grading Mode

EE 650 Special Topics **1-4 Credit hours**
Subject matter to be selected from topics of current interest.
Grade Mode: Normal Grading Mode

EE 651 Special Topics **1-4 Credit hours**
Subject matter to be selected from topics of current interest.
Grade Mode: Normal Grading Mode

EE 652 Special Topics **1-4 Credit hours**
Subject matter to be selected from topics of current interest.
Grade Mode: Normal Grading Mode

EE 653 Special Topics **1-4 Credit hours**
Subject matter to be selected from topics of current interest.
Grade Mode: Normal Grading Mode

EE 656 Semiconductr Switchng Circuits **3 Credit hours**
Grade Mode: Normal Grading Mode

EE 658 Linear Syst-State Space Appro **3 Credit hours**
Grade Mode: Normal Grading Mode

EE 661 Continuous & Digital Cntrl Sys **3 Credit hours**
Grade Mode: Normal Grading Mode

EE 681 Microprocessors-Prin & Appl 1 **3 Credit hours**
Grade Mode: Normal Grading Mode

EE 682 Microprocessors-Prin & Appl 2 **3 Credit hours**
Grade Mode: Normal Grading Mode

EE 683 Microcomputer-Based Design **3 Credit hours**
Surface and subsurface geology, geotechnical properties of soil and rock. Geotechnical engineering design aspects of landfills, groundwater barriers, tunneling. Mechnics of ground movements, sediment and erosion control. (PR: Engineering or Geology degree) Surface and subsurface geology, geotechnical properties of soil and rock. Geotechnical engineering design aspects of landfills, groundwater barriers, tunneling. Mechnics of ground movements, sediment and erosion control. (PR: Engine- ering or Geology degree)
Grade Mode: Normal Grading Mode

EE 684 Unknown **3 Credit hours**

EE 685 Independent Study **1-4 Credit hours**
Independent study in which a student meets regularly with a faculty member to discuss assignments.
Grade Mode: Normal Grading Mode

EE 686 Independent Study **1-4 Credit hours**
Independent study in which a student meets regularly with a faculty member to discuss assignments.
Grade Mode: Normal Grading Mode

EE 687 Independent Study **1-4 Credit hours**
Independent study in which a student meets regularly with a faculty member to discuss assignments.
Grade Mode: Normal Grading Mode

EE 688 Independent Study **1-4 Credit hours**
Independent study in which a student meets regularly with a faculty member to discuss assignments.
Grade Mode: Normal Grading Mode

EE 690 Special Topics **1-6 Credit hours**
Grade Mode: Normal Grading Mode

EE 698 Design Project **3 Credit hours**
The course introduces the principles of product design: specifications, evaluation of design alternatives, technical reports and oral presentations. Intellectual property, industry standards and conventions, engineering economics, reliability, safety, engineering ethics.
Grade Mode: Normal Grading Mode

EE 699 Thesis **1-6 Credit hours**
This represents the course designation for a Master's Degree Research Thesis. Successful completion of a thesis fulfills the research requirement for the M.S. degree in Electrical Engineering.
Attributes: Thesis
Grade Mode: Normal Grading Mode

EE 790 Advanced Independent Study **3 Credit hours**

Computer and Information Security, B.S.

Contact: Dr. Paulus Wahjudi, Chair
wahjudi@marshall.edu

The Bachelor of Science in Computer and Information Security program prepares students for careers in computer and information security fields through a strong foundation in the theory and practice and the broad education gained by core curriculum. Computer and information security is an evolving discipline that involves the study of technology, strategy, policy, and standards regarding the security of and operations in cyberspace. The program introduces students to a variety of topics in computer and information security such as computer and network protection, penetration testing and prevention, security in mobile devices and Internet of Things (IoT), and more by using the state-of-the-art security tools and technologies.

Admission and Transfer Criteria

Minimum requirements for admission into the Computer Science major for first-time freshmen are

- an ACT composite score of 21 (SAT 1060) and
- an ACT mathematics score of 24 (SAT math section score of 580).

Minimum requirements for admission into the Computer and Information Security major for transfer students, whether from within Marshall University or from another institution, are:

- 15 earned semester credit hours of college-level coursework,
- an overall Grade Point Average of at least 2.0 in all college-level coursework,
- completion of ENG 101 Beginning Composition (or equivalent) with a grade of *C*, and
- completion of MTH 132 Precalculus with Sci Applica or MTH 127 College Algebra-Expanded/MTH 130 College Algebra and MTH 132 Precalculus with Sci Applica (or equivalent) with a minimum grade of *C*.

For those desiring to major in computer and information security who do not meet the admission or transfer criteria listed above:

- Students may be admitted to “Pre-Computer Science” with a minimum ACT composite of 19 and an ACT mathematics

score of 19-23 (composite SAT of 900; Math SAT of 460-550). Transfer students must be eligible for MTH 127 College Algebra-Expanded/MTH 130 College Algebra and MTH 132 Precalculus with Sci Applica.

Pre-Computer and Information Security students must complete the criteria for transfer students to Computer and Information Security.

- General Education Course

- Milestone course: a key success marker for your major. See your advisor to discuss the importance of this course in your plan of study.

Major

The Core Curriculum is designed to foster critical thinking skills and introduce students to basic domains of thinking that transcend disciplines. The Core applies to all majors. Information on specific classes in the Core can be found at https://www.marshall.edu/gened/.

Code	Title	Credit Hours
Core Curriculum		
Core 1: Critical Thinking		
FYS 100	First Yr Sem Critical Thinking	3
MTH 229	Calculus/Analytic Geom I (CT)	5
Critical Thinking Course		3
Core 2		
ENG 101	Beginning Composition	3
ENG 201	Advanced Composition	3
CMM 103	Fund Speech-Communication	3
MTH 229	Calculus/Analytic Geom I (CT)	5
BSC 120	Principles of Biology I	3
BSC 120L	Principles of Biology I Lab	1
Core II Humanities		3
Core II Social Science		3
Core II Fine Arts		3
Additional University Requirements		
Writing Intensive (ENG 354 recommended)		3
Writing Intensive		3
Multicultural or International		3
CYBR 490	Senior Project	3
Major-Specific		
MTH 220	Discrete Structures	3
MTH 229	Calculus/Analytic Geom I (CT)	5
STA 225	Introductory Statistics (CT)	3
Science: Any two courses with labs from the following science areas:		
BSC 120, Principles of Biology I, and BSC 120L, Principles of Biology I Lab, or above		
CHM 211, Principles of Chemistry I, and CHM 217, Principles of Chemistry I Lab, or above		
GLY 200, Physical Geology, and GLY 210L, Earth Materials Lab, or above		
PHY 201, College Physics I, and PHY 202, General Physics Laboratory, or above		
ENG 354	Scientific & Tech Writing	3
CS 105	Expl World with Computing (CT)	3
CS 110	Computer Science I	3
CS 120	Computer Science II	3
CS 210	Data Structures and Algorithms	3
CS 215	Adv Data Struct and Algorithms	3
CS 305	Software Engineering	3
CS 320	Internetworking	3
CS 330	Operating Systems	3
CS 402	Computer Architecture	3
CS 410	Database Engineering	3
CYBR 210	Comp and Info Sec Principle	3
CYBR 240	Information Security Policies	3
CYBR 310	Introduction to Cryptography	3
CYBR 330	Cyber Security	3
CYBR 350	Cyber System Administration	3
CYBR 360	Cyber Infrastructure Security	3
CYBR 400	Computer Security Design	3
CYBR 435	Cyber Risk	3
CYBR 442	Cyber Operations	3
CYBR 475	Internship	3
CYBR 490	Senior Project (C)	3
Free Elective		3
Free Elective		2
Computer and Information Security Elective		3
Select one of the following:		
CYBR 480	Special Topics	
CYBR 481	Special Topics	
CYBR 483	Special Topics	
CYBR 484	Special Topics	
CYBR 485	Special Topics	
CYBR 486	Independent Study	
CYBR 487	Independent Study	
CYBR 488	Independent Study	
CYBR 489	Independent Study	
Any 400-level Cs course except CS 430, CS 435		
Any 300- or 400-level CFS course		

Major Information

- Other science with lab courses may replace the courses listed above with the approval of the program chair.
- Students are required to know and track their degree requirements for graduation or for entrance to a professional school.
- Coursework listed as “free elective” may vary for each student. Students are encouraged to use elective hours toward a minor or toward prerequisites.
- Course offerings and course attributes are subject to change each semester. Please consult each semester’s schedule of courses for availability and attributes.

- General Education Course

- Milestone course: a key success marker for your major. See your advisor to discuss the importance of this course in your plan of study.

Four Year Plan

The Bachelor of Science in Computer and Information Security program prepares students for careers in computer and information security fields through a strong foundation in the theory and practice and the broad education gained by core curriculum. Computer and information security is an evolving discipline that involves the study of technology, strategy, policy, and standards regarding the security of and operations in cyberspace. The program introduces students to a variety of topics in computer and information security such as computer and network protection, penetration testing and prevention, security in mobile devices and Internet of Things (IoT), and more by using state-of-the-art security tools and technologies.

Course	Title	Credit Hours
First Year		
First Semester		
CS 110	Computer Science I	3
MTH 229	Calculus/Analytic Geom I (CT)	5
ENG 101	Beginning Composition	3
FYS 100	First Yr Sem Critical Thinking	3
UNI 100	Freshman First Class	1
	Credit Hours	**15**
Second Semester		
CS 105	Expl World with Computing (CT)	3
CS 120	Computer Science II	3
ENG 201	Advanced Composition	3
MTH 220	Discrete Structures	3
CMM 103	Fund Speech-Communication	3
	Credit Hours	**15**
Second Year		
First Semester		
Core II Fine Arts		3
CYBR 210	Comp and Info Sec Principle	3
STA 225	Introductory Statistics (CT)	3
CS 210	Data Structures and Algorithms	3
BSC 120	Principles of Biology I (w/ Lab)	3
BSC 120L	Principles of Biology I Lab	1
	Credit Hours	**16**
Second Semester		
Core II Humanities (CT, WI)		3
CYBR 240	Information Security Policies	3
CS 215	Adv Data Struct and Algorithms	3
CHM 211	Principles of Chemistry I	3
CHM 217	Principles of Chem Lab I	2
Core II Social Science (MC/I, WI)		3
	Credit Hours	**17**
Third Year		
First Semester		
ENG 354	Scientific & Tech Writing (WI)	3
CS 320	Internetworking	3
CS 330	Operating Systems	3
PHY 201	College Physics I	3
PHY 202	General Physics I Laboratory	1
	Credit Hours	**13**
Second Semester		
CYBR 310	Introduction to Cryptography	3
CYBR 330	Cyber Security	3
CS 410	Database Engineering	3
CYBR 360	Cyber Infrastructure Security	3
Free Elective		3
Free Elective		2
	Credit Hours	**17**
Fourth Year		
First Semester		
CS 305	Software Engineering	3
CYBR 400	Computer Security Design	3
CYBR 475	Internship	3
CYBR 350	Cyber System Administration	3
Free Elective		3
	Credit Hours	**15**
Second Semester		
CS 402	Computer Architecture	3
CYBR 490	Senior Project (C)	3
CYBR 435	Cyber Risk	3
CYBR 442	Cyber Operations	3
	Credit Hours	**12**
	Total Credit Hours	**120**

Computer and Information Security, Minor

Contact: Dr. Paulus Wahjudi, Chair
wahjudi@marshall.edu

Security is a critical factor in today's world that is highly dependent on computers. This minor allows students to augment any technology-related field of study with knowledge in cyber-physical security. The minor is focused on students majoring in Computer Science, Electrical and Computer Engineering, and other closely related fields, but is open to any student able to meet the necessary prerequisites.

Course Requirements

Code	Title	Credit Hours
CS 110	Computer Science I	3
CS 120	Computer Science II	3
CS 210	Data Structures and Algorithms	3
CS 320	Internetworking	3
CYBR 330	Cyber Security	3
or CS 430	Cyber Security	
One CYBR course at the 300 or 400 level		3
Total Credit Hours		**18**

Computer Science, Accelerated Master's degree

Contact: Dr. Paulus Wahjudi, Chair
wahjudi@marshall.edu

Undergraduates accepted to an Accelerated Master's Degree program can begin taking master's level classes while still in the undergraduate program. Up to 12 graduate credits can be used to fulfill requirements for both the undergraduate and the master's degrees, effectively reducing the cost of, and time to, degree. Graduates of this program will be prepared for direct entry into the job market or continuation of graduate study towards an M.D. or Ph.D or other professional program.

B.S. in Computer Science (BSCS) curriculum requires 120 credit hours for graduation and the M.S. in Computer Science (MSCS) degree requires 30 credit hours. Students enrolled in the AMD program can substitute up to a maximum of 12 credits of their BSCS courses to 12 graduate credits of MSCS program to receive both BSCS and MSCS degrees in 5 years by completing a total of 138 credits.

The BSCS curriculum requires 6 credits of computer science major electives and 8 credits of free electives (see BSCS Study Plan). During their senior year, AMD students will take four CS graduate courses (one in fall semester and three In spring semester) at the 500 or 600 level for graduate degree credit (see MSCS plan of study) in lieu of major or free electives.

Eligibility Requirements for Accelerated Master's Degree Program

- completed at least 80 hours toward the bachelor's degree;
- at least a 3.30 overall undergraduate GPA;
- at least a 3.30 GPA in the major.

5-Year Dual Degree in Computer Science

Course	Title	Credit Hours
Fourth Year		
Fall		
CS 360	Automata and Formal Languages	3
CS 510	Advanced Database Systems	3
Science w/Lab 3		4
Writing Intensive		3
	Credit Hours	**13**
	Total Credit Hours	**13**

Course	Title	Credit Hours
Fourth Year		
Spring		
CS 490	Senior Project	3
CS 515	Data Mining	3
Graduate Elective		3
Graduate Elective		3
Free Elective		2
	Credit Hours	**14**
	Total Credit Hours	**14**

Course	Title	Credit Hours
Fifth Year		
Fall		
CS 511	Advanced Programming	3
CS 620	Applied Algorithms	3
Graduate Elective		3
	Credit Hours	**9**
	Total Credit Hours	**9**

Course	Title	Credit Hours
Fifth Year		
Spring		
CS 600	Advanced Web Technology	3
Graduate Elective		3
Graduate Elective		3
	Credit Hours	**9**
	Total Credit Hours	**9**

Computer Science, B.S.

Contact: Dr. Paulus Wahjudi, Chair
wahjudi@marshall.edu

The Bachelor of Science in Computer Science program prepares students for careers in computer science through learning based on practice and grounded in theory. Students learn how to analyze, design, build, test, and deploy computer based systems by making technical trade offs between performance, scalability, availability, reliability, security, maintainability, cost and societal impact. Marshall's computing facilities are state-of-the-art and readily available to students.

Admission and Transfer Criteria

Minimum requirements for admission into the Computer Science major for first-time freshmen are

- an ACT composite score of 21 (composite SAT of 980) and
- an ACT mathematics score of 24 (Math SAT of 560).

Minimum requirements for admission into the Computer Science major for transfer students, whether from within Marshall University or from another institution, are:

- 15 earned semester credit hours of college-level coursework,
- an overall Grade Point Average of at least 2.0 in all college-level coursework,
- completion of ENG 101 Beginning Composition (or equivalent) with a grade of *C*, and

- completion of MTH 132 Precalculus with Sci Applica, or MTH 127 College Algebra-Expanded/MTH 130 College Algebra and MTH 132 Precalculus with Sci Applica (or equivalent) with a grade of *C*.

Since enrollment may be limited, prospective students are encouraged to apply for admission as soon as possible and are urged to contact an advisor.

For those desiring to major in computer science who do not meet the admission or transfer criteria listed above:

- Students may be admitted to "Pre-Computer Science" with a minimum ACT composite of 19 and an ACT mathematics score of 19-23 (composite SAT of 900; Math SAT of 460-550). Transfer students must be eligible for MTH 127 College Algebra-Expanded/MTH 130 College Algebra and MTH 132 Precalculus with Sci Applica.

Students in Pre-Computer Science must complete the criteria for transfer students to Computer Science. Registration for Computer Science courses will be limited until transfer criteria are met.

- General Education Course

- Milestone course: a key success marker for your major. See your advisor to discuss the importance of this course in your plan of study.

Major

The Core Curriculum is designed to foster critical thinking skills and introduce students to basic domains of thinking that transcend disciplines. The Core applies to all majors. Information on specific classes in the Core can be found at https://www.marshall.edu/gened/.

Code	Title	Credit Hours
Core Curriculum		
Core 1: Critical Thinking		
FYS 100	First Yr Sem Critical Thinking	3
MTH 229	Calculus/Analytic Geom I (CT)	5
Critical Thinking Course		3
Core 2		
ENG 101	Beginning Composition	3
ENG 201	Advanced Composition	3
CMM 103	Fund Speech-Communication	3
MTH 229	Calculus/Analytic Geom I (CT)	5
Sci w/Lab Core II Physical/Natural Science		4
Core II Humanities		3
Core II Social Studies		3
Core II Fine Arts		3
Additional Univeristy Requirements		
Writing Intensive		3
Writing Intensive		3
Multicultural or International		3
CS 490	Senior Project	3
Major-Specific		
MTH 220	Discrete Structures	3
MTH 229	Calculus/Analytic Geom I (CT)	5
MTH 230	Calculus/Analytic Geom II	4
MTH 329	Elementary Linear Algebra	3
STA 345	Applied Prob and Stat	3
CS 110	Computer Science I	3
CS 120	Computer Science II	3
CS 210	Data Structures and Algorithms	3
CS 215	Adv Data Struct and Algorithms	3
CS 300	Programming Languages	3
CS 305	Software Engineering	3
CS 310	Software Engineering II	3
CS 320	Internetworking	3
CS 330	Operating Systems	3
CS 360	Automata and Formal Languages	3
CS 402	Computer Architecture	3
CS 410	Database Engineering	3
CS 430	Cyber Security	3
CS 490	Senior Project	3
ENGR 221	Engineering Economy	3
ENG 354	Scientific & Tech Writing	3
MGT 320	Principles of Management	3
CS Electives		
Select two of the following:		6
CS 315	Software Quality Assurance	
CS 370	Computer Graphics	
CS 404	High Performance Computing	
CS 405	Computing for Bioinformatics	
CS 425	Computational Intelligence	
CS 435	Cyber Risk	
CS 440	Digital Image Processing	
CS 455	Systems Engineering	
CS 480	Special Topics	
CS 481	Special Topics	
CS 482	Special Topics	
CS 483	Special Topics	
Science w/ Lab		
Select three of the following with labs:		12
BSC 120 & BSC 120L	Principles of Biology I and Principles of Biology I Lab (or above)	
CHM 211 & CHM 217	Principles of Chemistry I and Principles of Chem Lab I (or above)	
GLY 200 & GLY 210L	The Dynamic Earth and Earth Materials Lab (or above)	
PHY 201 & PHY 202	College Physics I and General Physics I Laboratory (or above)	
PHY 211 & PHY 202	University Physics I and General Physics I Laboratory (or above)	
Free Elective		3
Free Elective		3
Free Elective		2

Major Information

- Students are required to know and track their degree requirements for graduation or for entrance to a professional school.
- Coursework listed as "free elective" may vary for each student. Students are encouraged to use elective hours toward a minor or toward prerequisities.
- Course offerings and course attributes are subject to change each semester. Please consult each semester's schedule of courses for availability and attributes.

- General Education Course

- Milestone course: a key success marker for your major. See your advisor to discuss the importance of this course in your plan of study.

Four Year Plan

The Bachelor of Science in Computer Science program prepares students for careers in computer science through learning based on practice and grounded in theory. Students learn how to analyze, design, build, test, and deploy computer based systems by making technical trade offs between performance, scalability, availability, reliability, security, maintainability, cost and societal impact. Marshall's computing facilities are state-of-the-art and readily available to students.

Course	Title	Credit Hours
First Year		
First Semester		
CS 110	Computer Science I	3
MTH 229	Calculus/Analytic Geom I (CT)	5
ENG 101	Beginning Composition	3
CMM 103	Fund Speech-Communication	3
UNI 100	Freshman First Class	1
	Credit Hours	**15**
Second Semester		
CS 120	Computer Science II	3
ENG 201	Advanced Composition	3
FYS 100	First Yr Sem Critical Thinking	3
MTH 220	Discrete Structures	3
MTH 230	Calculus/Analytic Geom II	4
	Credit Hours	**16**
Second Year		
First Semester		
CS 210	Data Structures and Algorithms	3
ENG 354	Scientific & Tech Writing	3
MTH 329	Elementary Linear Algebra	3
Core II Physical/Natural Science		4
Core II Social Science (CT, M/I)		3
	Credit Hours	**16**
Second Semester		
CS 215	Adv Data Struct and Algorithms	3
CS 300	Programming Languages	3
STA 345	Applied Prob and Stat	3
Science w/ Lab		4
Core II Fine Arts		3
	Credit Hours	**16**
Third Year		
First Semester		
CS 305	Software Engineering	3
CS 320	Internetworking	3
CS 330	Operating Systems	3
MGT 320	Principles of Management	3
Core II Humanities (WI)		3
	Credit Hours	**15**
Second Semester		
CS 310	Software Engineering II	3
CS 402	Computer Architecture	3
CS 430	Cyber Security	3
CS 410	Database Engineering	3
ENGR 221	Engineering Economy	3
	Credit Hours	**15**
Fourth Year		
First Semester		
CS Elective		3
Science w/ Lab		4
CS 360	Automata and Formal Languages	3
Writing Intensive		3
	Credit Hours	**13**
Second Semester		
CS 490	Senior Project (C)	3
CS Elective		3
Free Elective		3
Free Elective		3
Free Elective		2
	Credit Hours	**14**
	Total Credit Hours	**120**

Computer Science, Minor

Contact: Dr. Paulus Wahjudi, Chair
wahjudi@marshall.edu

A student may be awarded a minor in computer science by completing, with a minimum 2.0 GPA, a minimum of 15 credits that include the following courses:

Code	Title	Credit Hours
CS 110	Computer Science I	3
CS 120	Computer Science II	3
CS 210	Data Structures and Algorithms	3
Any two CS courses at the 300 or 400 level		6
Total Credit Hours		**15**

Cybersecurity, Accelerated Master's Degree

Contact: Dr. Paulus Wahjudi, Chair

wahjudi@marshall.edu

Undergraduates accepted to an Accelerated Master's Degree program can begin taking master's level classes while still in the undergraduate program. Up to 12 graduate credits can be used to fulfill requirements for both the undergraduate and the master's degrees, effectively reducing the cost of, and time to, degree. Graduates of this program will be prepared for direct entry into the job market or continuation of graduate study.

The B.S. in Computer Science (BSCS) curriculum requires 120 credit hours for graduation and the M.S. in Cybersecurity (MSCY) degree requires 30 credit hours. Students enrolled in the AMD program can substitute up to a maximum of 12 credits of their BSCS courses to 12 graduate credits of MSCY program to receive both BSCS and MSCY degrees in 5 years by completing a total of 138 credits.

The BSCS curriculum requires 6 credits of computer science major electives and 8 credits of free electives (see BSCS Study Plan). During their senior year, AMD students will take four CS graduate courses (one in fall semester and three In spring semester) at the 500 or 600 level for graduate degree credit (see MSCY plan of study) in lieu of major or free electives.

Eligibility Requirements for Accelerated Master's Degree Program

- completed at least 80 hours toward the bachelor's degree;
- at least a 3.30 overall undergraduate GPA;
- at least a 3.30 GPA in the major.

5-Year Dual Degree in Cybersecurity

Course	Title	Credit Hours
Fourth Year		
Fall		
CS 360	Automata and Formal Languages	3
CYBR 510	Intro to Cybersecurity	3
Science w/Lab 3		4
Writing Intensive		3
	Credit Hours	**13**
	Total Credit Hours	**13**

Course	Title	Credit Hours
Fourth Year		
Spring		
CS 490	Senior Project	3
CYBR 620	Cyberwarfare	3
Graduate Course (Free Elective)		3
Graduate Course (Concentration)		3
Free Elective		2
	Credit Hours	**14**
	Total Credit Hours	**14**

Course	Title	Credit Hours
Fifth Year		
Fall		
CYBR 530	Cybersec Policies & Mgmt	3
CYBR 615	Cyber Vulnerability Assess	3
CYBR 680	Research in Cybersecurity	3
(or Core Elective)		
	Credit Hours	**9**
	Total Credit Hours	**9**

Course	Title	Credit Hours
Fifth Year		
Spring		
Graduate Course (Concentration)		3
Graduate Course (Free Elective)		3
CYBR 681	Thesis	3
(or Core Elective)		
	Credit Hours	**9**
	Total Credit Hours	**9**

Data Science, Accelerated Master's Degree

Contact: Dr. Paulus Wahjudi, Chair
wahjudi@marshall.edu

Undergraduates accepted to an Accelerated Master's Degree program can begin taking master's level classes while still in the undergraduate program. Up to 12 graduate credits can be used to fulfill requirements for both the undergraduate and the master's degrees, effectively reducing the cost of, and time to, degree. Graduates of this program will be prepared for direct entry into the job market or continuation of graduate study towards a Ph.D or other professional program.

The B.S. in Computer Science (BSCS) curriculum requires 120 credit hours for graduation and the M.S. in Data Science (MSDS) degree requires 30 credit hours. Students enrolled in the AMD program can substitute up to a maximum of 12 credits of their BSCS courses to 12 graduate credits of the MSDS program to receive both BSCS and MSDS degrees in 5 years by completing a total of 138 credits.

The BSCS curriculum requires 6 credits of computer science major electives and 8 credits of free electives (see BSCS Study Plan). During their senior year, AMD students will take four CS graduate courses (one in fall semester and three In spring semester) at the 500 or 600 level for graduate degree credit (see MSDS plan of study) in lieu of major or free electives.

Eligibility Requirements for Accelerated Master's Degree Program

- completed at least 80 hours toward the bachelor's degree;
- at least a 3.30 overall undergraduate GPA;
- at least a 3.30 GPA in the major.

5-Year Dual Degree in Data Science

Course	Title	Credit Hours
Fourth Year		
Fall		
CS 360	Automata and Formal Languages	3
CS 511	Advanced Programming	3
Science with Lab 3		4
Writing Intensive		3
	Credit Hours	**13**
	Total Credit Hours	**13**

Course	Title	Credit Hours
Fourth Year		
Spring		
CS 490	Senior Project	3
STA 535	Statistical Data Mining	3
CS 630	Machine Learning	3
Graduate Course (Domain Elective)		3
Free Elective		2
	Credit Hours	**14**
	Total Credit Hours	**14**

Course	Title	Credit Hours
Fifth Year		
Fall		
CS 670	Visual Analytics	3
STA 634	Stat Mtds for Researchers	3
CS 660	Big Data Systems	3
	Credit Hours	**9**
	Total Credit Hours	**9**

Course	Title	Credit Hours
Fifth Year		
Spring		
Graduate Course (Domain Elective)		3
Graduate Course (Domain Elective)		3
Graduate Course (Domain Elective)		3
	Credit Hours	**9**
	Total Credit Hours	**9**

Electrical and Computer Engineering, B.S.E.E.

Contact: Dr. Paulus Wahjudi, Chair
wahjudi@marshall.edu

The Marshall University Bachelor of Science in Electrical and Computer Engineering (B.S.E.E.) program goals are as follows:

1. Practice the electrical and computer engineering discipline successfully within community accepted standards.
2. Demonstrate teamwork and communication skills for a successful career.
3. Fulfill professional and ethical responsibilities in the practice of electrical and computer engineering, including social, environmental and economic considerations.
4. Engage in professional service, such as participation in professional society and community service.
5. Engage in lifelong learning activities, such as graduate studies or professional workshops.
6. Develop a professional career in the prevailing market that meets personal goals, objectives and desires.

The student outcomes of the B.S.E.E. are:

1. An ability to identify, formulate, and solve complex engineering problems by applying principles of engineering, science, and mathematics.
2. An ability to apply engineering design to produce solutions that meet specified needs with consideration of public health, safety, and welfare, as well as global, cultural, social, environmental, and economic factors.
3. An ability to communicate effectively with a range of audiences.
4. An ability to recognize ethical and professional responsibilities in engineering situations and make informed judgments, which must consider the impact of engineering solutions in global, economic, environmental, and societal contexts.
5. An ability to function effectively on a team whose members together provide leadership, create a collaborative and inclusive environment, establish goals, plan tasks, and meet objectives.
6. An ability to develop and conduct appropriate experimentation, analyze and interpret data, and use engineering judgment to draw conclusions.
7. An ability to acquire and apply new knowledge as needed, using appropriate learning strategies.

Admission Requirements

- Meet Marshall University admission requirements
- Admission to the B.S.E.E. program requires a minimum composite ACT score of 21 with a math score of 24, or a minimum SAT composite of 980 with a math SAT of 560.
- Transfer students must have completed MTH 127 College Algebra-Expanded/MTH 130 College Algebra and MTH 132 Precalculus with Sci Applica.

Students not meeting the ACT/SAT score requirements above may enroll in Pre-Engineering. Requirements for Pre-Engineering are a minimum composite ACT score of 19 with a math score of 19-23, or a minimum SAT composite of 900 with a math SAT of 460-550. Students who are admitted to the Pre-Engineering program generally will require an additional calendar year to complete the requirements for the B.S.E.E. degree. Transfer students must be eligible to take MTH 127 College Algebra-Expanded/MTH 130 College Algebra and MTH 132 Precalculus with Sci Applica.

Graduation Requirements

The B.S.E.E. degree program requires a minimum of 132 credit hours of coursework. In addition to fulfilling the university's requirements

for graduation, B.S.E.E. students must maintain a minimum GPA of 2.0 in all professional courses. These professional courses include mathematics (MTH 229 Calculus/Analytic Geom I (CT) or above), required science courses, core engineering (ENGR) courses, electrical and computer engineering courses (EE), and courses used as technical electives. Entering students with a Math ACT of 24-26 are required to take MTH 132 Precalculus with Sci Applica. Such students will likely need an extra semester or summer term to satisfy B.S.E.E. requirements.

Co-operative Education

Students may elect to participate in the co-operative education program. Students in the program will have periodic full-time work experiences in their area of interest with participating companies. Information on the program can be obtained from the division chair or academic advisor.

- General Education Course

- Milestone course: a key success marker for your major. See your advisor to discuss the importance of this course in your plan of study.

Major

The Core Curriculum is designed to foster critical thinking skills and introduce students to basic domains of thinking that transcend disciplines. The Core applies to all majors. Information on specific classes in the Core can be found at https://www.marshall.edu/gened/.

Code	Title	Credit Hours
Core Curriculum		
Core 1: Critical Thinking		
FYS 100	First Yr Sem Critical Thinking	3
MTH 229	Calculus/Analytic Geom I (CT)	5
Critical Thinking Course		3
Core 2		
ENG 101	Beginning Composition	3
ENG 201	Advanced Composition	3
CMM 103	Fund Speech-Communication	3
MTH 229	Calculus/Analytic Geom I (CT)	5
PHY 211	University Physics I (Physical/Natural Science)	4
Core II Humanities		3
Core II Social Science		3
Core II Fine Arts		3
Additional University Requirements		
Writing Intensive		3
Writing Intensive		3
Multicultural or International		3
EE 420	Capstone Design	3
Major-Specific		
MTH 229	Calculus/Analytic Geom I (CT)	5
MTH 230	Calculus/Analytic Geom II	4
MTH 231	Calculus/Analytic Geom III	4
MTH 335	Ordinary Diff Equations	3
MTH 220	Discrete Structures	3
CHM 211	Principles of Chemistry I	3
PHY 211	University Physics I	4
PHY 213	University Physics II	4
PHY 204	General Physics 2 Laboratory	1
ENGR 103	First-Year Engineering Seminar	1
ENGR 104	The Engineering Profession	1
ENGR 217	Engineering Co-Op Preparation	1
ENGR 201	Circuits I	4
ENGR 222	Engr Cost Analysis & Economy	3
ENGR 335	Adv Engineering Analysis	3
CS 110	Computer Science I	3
EE 202	Circuits II	3
EE 204	Intro to Digital Systems	3
EE 210	Programming Lab	3
EE 211	Intro to Computer Engineering	3
EE 310	Electromagnetic Fields	3
EE 320	Analysis of Signals & Systems	3
EE 330	Random Signals and Systems	3
EE 340	Computer Architecture & Design	4
EE 350	Elect Properties of Materials	3
EE 360	Control Systems	3
EE 370	Electric Machinery	3
EE 375	Communcation Systems I	3
EE 380	Microprocessor Design	3
EE 401	Communication Systems II	3
EE 415	Intro VHDL Design & HW Systems	3
EE 425	Electric Power Systems	3
EE 440	Digital Control Systems	3
EE 410	Electrical Engineering Design [1]	3
or EE 412	Computer Engineering Design	
EE 420	Capstone Design [2]	3
Technical Electives		
Select at least 2 technical elective courses related to the area of emphasis. The courses must be approved by the student's advisor and the division chair.		6
Suggested Electives:		
EE 445	Radio Freq & Microwave Engr	
EE 447	Real-Time Digital Processing	
EE 448	Power Electronics	
ME 465	Mechatronics	
CS 412	Embedded Systems	
CS 430	Cyber Security	
CS 440	Digital Image Processing	

[1] To be eligible for EE 410 Electrical Engineering Design or EE 412 Computer Engineering Design students must have senior standing in BSEE and have completed the following courses: EE 370 Electric Machinery, EE 375 Communcation Systems I, and EE 380 Microprocessor Design.

[2] To be eligible to take the capstone design course, students must have completed EE 410 Electrical Engineering Design or EE 412 Computer Engineering Design.

Major Information

- Course offerings and course attributes are subject to change each semester. Please consult each semester's schedule of courses for availability and attributes.
- Students are required to know and track their degree requirements for graduation or for entrance to a professional school.
- The B.S.E.E. degree program requires a minimum of 132 credit hours of coursework to graduate.

- General Education Course

- Milestone course: a key success marker for your major. See your advisor to discuss the importance of this course in your plan of study.

Four Year Plan

Electrical and Computer Engineers design and maintain electrical control systems and components. They are multi-skilled and are able to work in projects from the design phase, through development, implementation, testing, up to client follow-up. The impact of their work is seen all over the building industry, services, transportation, manufacturing, and production and distribution of power.

Course	Title	Credit Hours
First Year		
First Semester		
CHM 211	Principles of Chemistry I	3
MTH 229	Calculus/Analytic Geom I (CT)	5
ENGR 103	First-Year Engineering Seminar	1
ENGR 104	The Engineering Profession	1
ENG 101	Beginning Composition	3
FYS 100	First Yr Sem Critical Thinking	3
UNI 100	Freshman First Class	1
	Credit Hours	**17**
Second Semester		
CS 110	Computer Science I	3
MTH 230	Calculus/Analytic Geom II	4
PHY 211	University Physics I	4
CMM 103	Fund Speech-Communication	3
MTH 220	Discrete Structures	3
	Credit Hours	**17**
Second Year		
First Semester		
EE 210	Programming Lab	3
ENGR 201	Circuits I	4
MTH 231	Calculus/Analytic Geom III	4
PHY 213	University Physics II	4
PHY 204	General Physics 2 Laboratory	1
ENGR 217	Engineering Co-Op Preparation	1
	Credit Hours	**17**
Second Semester		
EE 202	Circuits II	3
ENGR 222	Engr Cost Analysis & Economy	3
EE 204	Intro to Digital Systems	3
EE 211	Intro to Computer Engineering	3
MTH 335	Ordinary Diff Equations	3
Core II Social Science (MC/I, WI)		3
	Credit Hours	**18**
Third Year		
First Semester		
ENGR 335	Adv Engineering Analysis	3
EE 310	Electromagnetic Fields	3
EE 340	Computer Architecture & Design	4
EE 350	Elect Properties of Materials	3
EE 320	Analysis of Signals & Systems	3
	Credit Hours	**16**
Second Semester		
ENG 201	Advanced Composition	3
EE 360	Control Systems	3
EE 330	Random Signals and Systems	3
EE 375	Communcation Systems I	3
EE 370	Electric Machinery	3
EE 380	Microprocessor Design	3
	Credit Hours	**18**
Fourth Year		
First Semester		
EE 401	Communication Systems II	3
EE 410 or EE 412	Electrical Engineering Design or Computer Engineering Design	3
EE 425	Electric Power Systems	3
EE 440	Digital Control Systems	3
Core II Humanities (WI, CT)		3
	Credit Hours	**15**
Second Semester		
EE 420	Capstone Design	3
EE 415	Intro VHDL Design & HW Systems	3
Technical Elective		3
Technical Elective		3
Core II Fine Arts		3
	Credit Hours	**15**
	Total Credit Hours	**133**

Pre-Computer Science

Contact: Dr. Paulus Wahjudi, Chair
wahjudi@marshall.edu

Students interested in pursuing a degree in computer science who have a minimum composite ACT score of 19 and Math ACT scores of 19-23 (SAT composite 900; Math 460-550), will be admitted into Pre-Computer Science until all of the following minimum requirements are met:

- 15 earned semester credit hours of college-level coursework;
- Overall college Grade Point Average of 2.0;
- Completion of ENG 101 Beginning Composition (or equivalent) with a grade of *C*;

- Completion of MTH 127 College Algebra-Expanded/MTH 130 College Algebra (or equivalent) grade of *C*;
- MTH 132 Precalculus with Sci Applica (or equivalent) grade of *C*

In order to transfer into the computer science program offered at Marshall, students must meet the Math ACT requirement or complete the requirements listed above for Pre-Computer Science majors. This pertains to transfer students within Marshall or from another institution.

Once all requirements listed above have been met, students will be transferred to the computer science major.

- General Education Course

- Milestone course: a key success marker for your major. See your advisor to discuss the importance of this course in your plan of study.

Two Year Plan

Each student should meet with his/her faculty advisor early in the program to develop an individual plan of study since requirements will vary based on math courses completed. The following is a suggested schedule for pre-computer science majors.

Math ACT 19-23 (SAT 460-550)

Course	Title	Credit Hours
First Semester		
ENG 101	Beginning Composition	3
FYS 100	First Yr Sem Critical Thinking	3
MTH 127 or MTH 130	College Algebra-Expanded (Placement is based on ACT/SAT match scores.) or College Algebra	3-5
Core II Course (depending on total semester credit hours)		3
CS 105	Expl World with Computing (CT)	3
UNI 100	Freshman First Class	1
	Credit Hours	**16-18**
Second Semester		
Humanities		3
MTH 132	Precalculus with Sci Applica	5
CS 110	Computer Science I	3
Core II Course		3
Core II Course		3
	Credit Hours	**17**
	Total Credit Hours	**33-35**

Weisberg Department of Mechanical and Industrial Engineering

Contacts: Dr. Asad Salem, Interim Chair (asad.salem@marshall.edu)
Website: http://www.marshall.edu/cecs (http://www.marshall.edu/cecs/)

Mechanical Engineering integrates in-depth knowledge of core areas in mechanical engineering such as mechanics, thermal science, materials and manufacturing, control systems, and product design and development with advanced study in computing and physical sciences. This integration is critical for multidisciplinary areas such as bio and manufacturing engineering, robotics, nanotechnologies, and energy systems. Tools ranging from computer simulation and systems modeling to advanced experimental techniques are developed and applied in order to provide a profound understanding of fundamental phenomena, processes, and system characteristics in these areas.

Programs

- Aerospace Engineering, Emphasis (p. 485)
- Engineering, B.S.E. (p. 486)
- General Engineering, Emphasis (p. 488)
- Industrial and Systems Emphasis (p. 488)
- Mechanical Engineering, Accelerated Master's Degree (p. 491)
- Mechanical Engineering, B.S.M.E. (p. 488)
- Occupational Safety and Health, B.S. (p. 491)
- Occupational Safety and Health, Minor

Courses

- General Education Course

Industrial and Systems Engineering

IE 303 Work Design **3 Credit hours**
Design of work systems and measurement of work. Students are also introduced to ergonomics considerations in the design of manual operations.
Grade Mode: Normal Grading Mode

IE 305 System Engineering **3 Credit hours**
This course introduces students to the fundamental principles of systems engineering and their application to the development of complex systems.
Grade Mode: Normal Grading Mode

IE 401 Modeling & Quan Analysis **3 Credit hours**
Simulation of complex deterministic/stochastic systems. Random number generation. Input and output analyses. Spreadsheet simulations Design of simulation experiments. Applications in manufacturing, supply-chain, networks, military, health care, service systems.
Pre-req: CS 110 with a minimum grade of D or ENGR 111 with a minimum grade of D or ME 111 with a minimum grade of D.
Grade Mode: Normal Grading Mode

IE 404 Quality Control **3 Credit hours**
A comprehensive coverage of modern quality control techniques to include the design of statistical process control systems, lean 6 sigma, and process improvement.
Pre-req: IE 303 with a minimum grade of D and STA 345 with a minimum grade of D.
Grade Mode: Normal Grading Mode

IE 480 Special Topics **1-4 Credit hours**
Special Topics
Grade Mode: Normal Grading Mode

IE 481 Special Topics **1-4 Credit hours**
Special Topics
Grade Mode: Normal Grading Mode

IE 482 Special Topics **1-4 Credit hours**
Special Topics
Grade Mode: Normal Grading Mode

IE 483 Special Topics **1-4 Credit hours**
Special Topics
Grade Mode: Normal Grading Mode

IE 485 Independent Study **1-4 Credit hours**
Independent Study
Grade Mode: Normal Grading Mode

IE 486 Independent Study **1-4 Credit hours**
Independent Study
Grade Mode: Normal Grading Mode

IE 487 Independent Study **1-4 Credit hours**
Independent Study
Grade Mode: Normal Grading Mode

IE 488 Independent Study **1-4 Credit hours**
Independent Study
Grade Mode: Normal Grading Mode

IE 615 Simulation 1 **3 Credit hours**
Grade Mode: Normal Grading Mode

IE 618 Computational Methods 2 **3 Credit hours**
Grade Mode: Normal Grading Mode

IE 620 Design of Experiments **3 Credit hours**
Grade Mode: Normal Grading Mode

IE 625 Multivariate Analysis **3 Credit hours**
Grade Mode: Normal Grading Mode

IE 627 Response Surface Methodology **3 Credit hours**
Grade Mode: Normal Grading Mode

IE 630 Stochastic Processes **3 Credit hours**
Grade Mode: Normal Grading Mode

IE 633 Forecasting Methods **3 Credit hours**
Grade Mode: Normal Grading Mode

IE 635 Quality Control **3 Credit hours**
Grade Mode: Normal Grading Mode

IE 636 Realiablty Estimation/Analysis **3 Credit hours**
Grade Mode: Normal Grading Mode

IE 639 Operations Research I **3 Credit hours**
Examination of the methodology of operations research, including linear programming, transportation methods, network flows, economic analysis, decision analysis, queuing theory and simulation. Examination of the methodology of operations research, including linear programming, transportation methods, network flows, economic analysis, decision analysis, queuing theory and simulation.
Pre-req: IE 610 or IE 610G.
Grade Mode: Normal Grading Mode

IE 640 Operations Research II **3 Credit hours**
A continuation of IE 540 including an introduction to sensitivity and parametric analysis in linear programming, integer programming, nonlinear programming, dynamic programming, reliability theory, and inventory control. (PR: IE 630) A continuation of IE 540 including an introduction to sensitivity and parametric analysis in linear programming, integer programming, nonlinear programming, dynamic programming, reliability theory, and inventory control. (PR: IE 630)
Grade Mode: Normal Grading Mode

IE 641 Linear Programmingl **3 Credit hours**
Grade Mode: Normal Grading Mode

IE 642 Nonlinear Programming **3 Credit hours**
Grade Mode: Normal Grading Mode

IE 650 Network Methods **3 Credit hours**
Special topics in advanced Industrial Engineering that are not offered regularly. Special topics in advanced Industrial Engineering that are not offered regularly.
Grade Mode: Normal Grading Mode

IE 651 Special Topics **1-4 Credit hours**
Special topics in advanced Industrial Engineering that are not offered regularly. Special topics in advanced Industrial Engineering that are not offered regularly.
Grade Mode: Normal Grading Mode

IE 653 Special Topics **1-4 Credit hours**
Special topics in advanced Industrial Engineering that are not offered regularly. Special topics in advanced Industrial Engineering that are not offered regularly.
Grade Mode: Normal Grading Mode

IE 655 Simulation 2 **3 Credit hours**
Grade Mode: Normal Grading Mode

IE 662 Project Scheduling **3 Credit hours**
Grade Mode: Normal Grading Mode

IE 665 Forcasting Inventory Systems **3 Credit hours**
Grade Mode: Normal Grading Mode

IE 670 Operations Management **3 Credit hours**
Examination of the quantitative and conceptual tools for generating goods and services in manufacturing and non-manufacturing organizations. Examination of the quantitative and conceptual tools for generating goods and services in manufacturing and non-manufacturing organizations.
Grade Mode: Normal Grading Mode

IE 674 Mgt Mthds In Nonindustrial Sys **3 Credit hours**
Grade Mode: Normal Grading Mode

IE 675 Engineering Economics **3 Credit hours**
Grade Mode: Normal Grading Mode

IE 676 Quality Assurance **3 Credit hours**
Grade Mode: Normal Grading Mode

IE 689 Special Topics **3 Credit hours**
Grade Mode: Normal Grading Mode

IE 789 Fnl Project In Industrial Engr **1-3 Credit hours**
Grade Mode: Normal Grading Mode

IE 799 Masters Thesis Research **1-6 Credit hours**
Grade Mode: Normal Grading Mode

Mechanical Engineering

ME 111 Mech Engineering Computations **3 Credit hours**
Introduction to effective problem-solving techniques used in various engineering applications. Computational tools including C and MATLAB will e covered.
Pre-req: MTH 132 (may be taken concurrently) with a minimum grade of D or MTH 229 (may be taken concurrently) with a minimum grade of D or MTH 229H (may be taken concurrently) with a minimum grade of D.
Concurrent PR: MTH 132 or MTH 229 or MTH 229H
Grade Mode: Normal Grading Mode

ME 240 Manufacturing Processes **3 Credit hours**
An introduction to manufacturing systems and strategy. A study of manufacturing processes. Measurement and quality assurance machining, welding, and casting processes. Hot and cold forming and joining processes. 1 lec and 6 lab
Pre-req: ENGR 215 with a minimum grade of D and (ENGR 102 with a minimum grade of D or CE 102 with a minimum grade of D).
Grade Mode: Normal Grading Mode

ME 245 Circuits and Instrumentation **3 Credit hours**
This course provides basic concepts of DC and AC circuit analysis, an overview of the instrument characteristics and measurement principles, and description and evaluation of sensors commonly used with instrumentation.
Pre-req: MTH 230 with a minimum grade of D and PHY 213 (may be taken concurrently) with a minimum grade of D.
Concurrent PR: PHY 213
Grade Mode: Normal Grading Mode

ME 305 Aircraft Systems **3 Credit hours**
This course covers flight dynamics; and modeling, stability, and control aspects of aircrafts.
Pre-req: ENGR 213 with a minimum grade of D.
Grade Mode: Normal Grading Mode

ME 310 Thermodynamics II **3 Credit hours**
Gas, vapor, combined power cycles, co-generation, entropy, combustion, fuel cells, and equations of state.
Pre-req: ENGR 219.
Grade Mode: Normal Grading Mode

ME 312 Flight Mechanics **3 Credit hours**
This course covers flight dynamics; modeling, stability, and control aspects of aircrafts.
Pre-req: ME 305 with a minimum grade of D.
Grade Mode: Normal Grading Mode

ME 320 Fluid Power **3 Credit hours**
This course covers physical principles of fluid power cylinders, control valves, fluid power components: compressors, pumps, valves, cylinders, and motors, fluid power circuits, troubleshooting: hydraulic, symptoms, procedures, pneumatics.
Pre-req: ENGR 214 and ENGR 216.
Grade Mode: Normal Grading Mode

ME 325 Experimental Design and Thermo **2 Credit hours**
Experimental analysis and design; probability and statistical, uncertainty, and error analysis; Experiments in fluid, heat and thermodynamics; principles and performance of measuring systems; Laboratory experience. 1 Hour for lecture and 3 hours for lab.
Pre-req: ME 360 with a minimum grade of D and ENGR 219 with a minimum grade of D and ME 350 (may be taken concurrently) with a minimum grade of D.
Concurrent PR: ME 350
Attributes: No Textbook Required
Grade Mode: Normal Grading Mode

ME 330 Manufacturing Methods/Design **3 Credit hours**
This course covers economical production by understanding the capabilities of different manufacturing processes, candidate manufacturing processes for a given part, performing manufacturabiliity evaluation at the design stage, automation, IMS.
Pre-req: ME 240 with a minimum grade of D.
Grade Mode: Normal Grading Mode

ME 335 Mech Engineering Analysis **3 Credit hours**
Covers the mathematical methods available for analysis of engineering problems, and how to apply them effectively for analytically mechanical and thermal systems.
Pre-req: MTH 231 (may be taken concurrently) with a minimum grade of D and MTH 335 with a minimum grade of D.
Concurrent PR: MTH 231
Grade Mode: Normal Grading Mode

ME 340 Machine Element Design **3 Credit hours**
Mechanical design of machine elements, static and fatigue failures, shaft systems, bearings, gears, springs, screws and fasteners.
Pre-req: ENGR 216 with a minimum grade of D.
Grade Mode: Normal Grading Mode

ME 350 Heat Transfer **3 Credit hours**
Analysis and solutions of conduction, free and forced convection, radiation heat transfer and design of heat exchangers.
Pre-req: ENGR 219 with a minimum grade of D and ME 360 with a minimum grade of D.
Grade Mode: Normal Grading Mode

ME 360 Fluid Dynamics **4 Credit hours**
Fluid statics, fluid kinematics, Bernoulli equation, momentum analysis, dimensional analysis, internal flows, fluid machinery, power and efficiency, external flows, compressible flows, differential analysis and Navier-Stokes equation, computational fluid dynamics.
Pre-req: ENGR 214 with a minimum grade of D and MTH 231 with a minimum grade of D.
Grade Mode: Normal Grading Mode

ME 410 Kinematics & Design of Machine **3 Credit hours**
The determination of the motion and forces of machines and mechanisms including rotating machinery, cams and gears. Analyze position, velocity, accelerations, static loads, and dynamic loads.
Pre-req: ENGR 214 with a minimum grade of D and ENGR 216 with a minimum grade of D.
Grade Mode: Normal Grading Mode

ME 420 Control Systems **3 Credit hours**
This course provides basic concepts of control; open and closed-loop control systems; and PLC Programming.
Pre-req: ME 245 with a minimum grade of D and ENGR 335 with a minimum grade of D.
Grade Mode: Normal Grading Mode

ME 422 Flight Stability and Control **3 Credit hours**
This course covers flight dynamics; and modeling, stability, and control aspects of aircrafts.
Pre-req: MTH 335 with a minimum grade of D and ME 312 with a minimum grade of D.
Grade Mode: Normal Grading Mode

ME 425 Mechanical Engineering Lab-II **1 Credit hour**
Engineering measurements and experimentations. Hands-on labs and data analyses in several major topics of the Mechanics of Materials theory and Theory of Machines.
Pre-req: ME 340.
Grade Mode: Normal Grading Mode

ME 430 Design of Thermal Systems **3 Credit hours**
Design and analysis of thermal systems including components selection and integrations.
Pre-req: ME 350.
Grade Mode: Normal Grading Mode

ME 435 Design of Mechanical System **3 Credit hours**
Problem solving methodology in the design, analysis, and synthesis of mechanical systems. Engineering design process involving modeling, computer simulation, concepts of optimization, robustness, reliability, sustainability.
Pre-req: ME 410 with a minimum grade of D.
Attributes: No Textbook Required
Grade Mode: Normal Grading Mode

ME 440 Design & Analysis Energy Sys **3 Credit hours**
Design characteristics and operational performance of energy systems.
Pre-req: ME 310 with a minimum grade of D.
Attributes: No Textbook Required
Grade Mode: Normal Grading Mode

ME 445 Hydraulic & Pneumatic Control **3 Credit hours**
This course covers standard symbols, pumps, control valves, assemblies, actuators, filter regulator lubricator (FRL), maintenance procedures, switching, control devices, fluid power circuits including design, application, and troubleshooting.
Pre-req: ME 245 with a minimum grade of D.
Grade Mode: Normal Grading Mode

ME 447 Engineering Analysis **4 Credit hours**
Experimental laboratory mainly from within the thermo-fluids area, concerned with fluid statics, flow, heat transfer, internal combustion engines, data acquistion, analysis, including use of computers. Principles of good experimental design.
Pre-req: MTH 335.
Grade Mode: Normal Grading Mode

ME 450 CNC and Rapid Prototyping **3 Credit hours**
This course covers CNC CAD/CAM, CNC tools, coordinate systems, CNC programming Language, CNC operation, CNC tool paths, CNC turning, G/M code reference, CNC milling work-holding, rapid prototyping, 3D printing.
Pre-req: ME 240 with a minimum grade of D.
Grade Mode: Normal Grading Mode

ME 451 Jet Propulsion **3 Credit hours**
The theories and principles of jet propulsion. Thermodynamic cycles. The mechanics and thermodynamics of combustion. Turbine engine performance characteristics. Component and cycle analysis of jet engines and turbomachinery.
Pre-req: ME 310 with a minimum grade of D.
Grade Mode: Normal Grading Mode

ME 452 Capstone Design I **1 Credit hour**
Prepares mechanical engineering students for ME 453 Capstone Design II, professional responsibility, development of effective communication skills, and learning strategies. Students begin to work on a capstone design project. (PR: ME 325, ME 350, ME 410)
Pre-req: ME 325 (may be taken concurrently) with a minimum grade of D and ME 350 (may be taken concurrently) with a minimum grade of D and ME 410 (may be taken concurrently) with a minimum grade of D.
Concurrent PR: ME 325 and ME 350 and ME 410
Grade Mode: Normal Grading Mode

ME 453 Capstone Design II **3 Credit hours**
Students utilize the engineering design process to complete a comprehensive project that addresses a real-world problem with realistic constraints in a collaborative environment.
Pre-req: ME 452 with a minimum grade of D.
Attributes: Capstone Course
Grade Mode: Normal Grading Mode

ME 455 Metallurgy **3 Credit hours**
Covers material properties and behavior of pure metals and common metal alloys. Discuss various aspects of extractive, mechanical, physical metallurgy, theory and practice of identification, selection, processing, conditioning, and testing.
Pre-req: ENGR 215 with a minimum grade of D.
Grade Mode: Normal Grading Mode

ME 456 Materials for Aerospace **3 Credit hours**
Covers the main structural materials used in aircraft in terms of their production, properties, performance, and applications.
Pre-req: ENGR 215 with a minimum grade of D.
Grade Mode: Normal Grading Mode

ME 460 Vibrations **3 Credit hours**
Modeling of vibratory motion of single and multiple degree of freedom systems; free and forced response; modal summation method for response predictions; simulation of the vibration by using Matlab.
Pre-req: ENGR 214 and MTH 335.
Grade Mode: Normal Grading Mode

ME 465 Mechatronics **3 Credit hours**
Dynamic analysis of mechatronic systems, sensors, transducers, and electric circuits and control.
Pre-req: ME 245 with a minimum grade of D and MTH 335 with a minimum grade of D.
Grade Mode: Normal Grading Mode

ME 471 Finite Elements Method **3 Credit hours**
This course covers flight dynamics; and modeling, stability, and control aspects of aircrafts.
Pre-req: ENGR 216 with a minimum grade of D and ENGR 335 with a minimum grade of D.
Grade Mode: Normal Grading Mode

ME 473 Computational Fluid Dynamics **3 Credit hours**
Conservation laws of fluid motion and heat transfer; Fundamental knowledge to use numerical techniques to solve fluid-thermal problems.
Pre-req: ENGR 335 with a minimum grade of D and ME 360 with a minimum grade of D.
Grade Mode: Normal Grading Mode

ME 475 Introduction to Robotics **3 Credit hours**
Introduction to effective problem-solving techniques used in various engineering applications. Computational tools including C and MATLAB will be covered.
Pre-req: ME 410 with a minimum grade of D and (ME 420 with a minimum grade of D or ME 360 with a minimum grade of D).
Grade Mode: Normal Grading Mode

ME 480 Special Topics **1-4 Credit hours**
Subject matter to be selectred from topics of current interest.
Grade Mode: Normal Grading Mode

ME 481 Special Topics **1-4 Credit hours**
Subject matter to be selected from topics of current interest.
Grade Mode: Normal Grading Mode

ME 482 Special Topics **1-4 Credit hours**
Subject matter to be selected from topics of current interest.
Grade Mode: Normal Grading Mode

ME 483 Special Topics **1-4 Credit hours**
Subject matter to be selected from topics of current interest.
Grade Mode: Normal Grading Mode

ME 485 Independent Study **1-4 Credit hours**
Individual study of advanced mechanical engineering areas.
Grade Mode: Normal Grading Mode

ME 486 Independent Study **1-4 Credit hours**
Individual study of advanced mechanical engineering areas.
Grade Mode: Normal Grading Mode

ME 487 Independent Study **1-4 Credit hours**
Individual study of advanced mechanical engineering areas.
Grade Mode: Normal Grading Mode

ME 488 Independent Study **1-4 Credit hours**
Individual study of advanced mechanical engineering areas.
Grade Mode: Normal Grading Mode

Occupational Safety and Health

SFT 235 Intro to Occup Safety (CT) **3 Credit hours**
Introduction to occupational safety and health on an international level. Comparisons of various accidents by type and country will be explored along with prevention techniques.
Attributes: Critical Thinking, International, No Textbook Required
Grade Mode: Normal Grading Mode

SFT 280 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

SFT 281 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

SFT 282 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

SFT 283 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

SFT 340 Indust Fire Prevent **3 Credit hours**
Pre-req: SFT 235 (may be taken concurrently) with a minimum grade of C and (PHY 201 (may be taken concurrently) with a minimum grade of D or PHY 211 (may be taken concurrently) with a minimum grade of D) and PHY 202 (may be taken concurrently) with a minimum grade of D.
Concurrent PR: SFT 235 and (PHY 201 or PHY 211) and PHY 202
Grade Mode: Normal Grading Mode

SFT 350 Safety Technology Co-Op **0 Credit hours**
A supervised experience in which the student works for a company to gain practical experience in a students major.
Pre-req: ENGR 217 with a minimum grade of D.
Grade Mode: Credit/No Credit Grade Only

SFT 372 Safety & Industrial Tech **3 Credit hours**
Pre-req: SFT 235 with a minimum grade of D.
Grade Mode: Normal Grading Mode

SFT 373 Prin Ergonomics & Hum Factors **3 Credit hours**
Introductory principles within human-machine relationships; examining the biological, physiological, and psychological factors which contribute to accident causation.
Pre-req: SFT 373L (may be taken concurrently) with a minimum grade of D and (PHY 203 (may be taken concurrently) with a minimum grade of D or PHY 212 (may be taken concurrently) with a minimum grade of D) and PHY 204 (may be taken concurrently) with a minimum grade of D.
Concurrent PR: SFT 373L and (PHY 203 or PHY 212) and PHY 204
Co-req: SFT 373L
Attributes: No Textbook Required
Grade Mode: Normal Grading Mode

SFT 373L Prin of Ergonomics Lab **1 Credit hour**
A laboratory course designed to include the principles and applications of human factors/ergonomics that were introduced in SFT 373.
Pre-req: SFT 373 (may be taken concurrently) with a minimum grade of D and (PHY 203 (may be taken concurrently) with a minimum grade of D or PHY 212 (may be taken concurrently) with a minimum grade of D) and PHY 204 (may be taken concurrently) with a minimum grade of D.
Concurrent PR: SFT 373 and (PHY 203 or PHY 212) and PHY 204
Co-req: SFT 373
Attributes: No Textbook Required
Grade Mode: Normal Grading Mode

SFT 375 Construction Safety I **3 Credit hours**
Pre-req: SFT 235 (may be taken concurrently).
Concurrent PR: SFT 235
Grade Mode: Normal Grading Mode

SFT 378 Safety Eval & Measurement **3 Credit hours**
Pre-req: SFT 235 or SED 235.
Grade Mode: Normal Grading Mode

SFT 385 Traffic Safety & Driver Educa **3 Credit hours**
An introductory course in the teaching of safety and driver education, including techniques of classroom and behind-the- wheel instruction. 2 lec-2 lab.
Grade Mode: Normal Grading Mode

SFT 400 Traffic Law Enforcement **3 Credit hours**
A course designed to study and evaluate the varied and complex system of laws governing the control of all forms of traffic and the influences and responsibilities of traffic law enforcement in presentday society.
Grade Mode: Normal Grading Mode

SFT 453 International Safety & Health **3 Credit hours**
The course covers the impact of globalization on worldwide safety and health programs, and a wide variety of safety and health programs for various countries and multinational organizations.
Attributes: International
Grade Mode: Normal Grading Mode

SFT 454 Industrial Hygiene **3 Credit hours**
Environmental protection as related to industrial settings. Air/water quality, noise and chemical pollution and hazardous material control.
Pre-req: CHM 212 with a minimum grade of C and CHM 218 with a minimum grade of C and (PHY 203 with a minimum grade of C or PHY 212 with a minimum grade of C) and PHY 204 with a minimum grade of C and SFT 465 (may be taken concurrently) with a minimum grade of C and SFT 454L (may be taken concurrently) with a minimum grade of D.
Concurrent PR: SFT 465 and SFT 454L
Grade Mode: Normal Grading Mode

SFT 454L Industrial Hygiene Lab **2 Credit hours**
Quantitative monitoring techniques for measuring air and water quality, the measurement of noise and chemical pollutions and the evaluation of other physical hazards.
Pre-req: SFT 465 (may be taken concurrently) with a minimum grade of C and SFT 454 (may be taken concurrently) with a minimum grade of D and CHM 212 (may be taken concurrently) with a minimum grade of C and CHM 218 (may be taken concurrently) with a minimum grade of C and (PHY 203 (may be taken concurrently) with a minimum grade of C or PHY 212 (may be taken concurrently) with a minimum grade of C) and PHY 204 (may be taken concurrently) with a minimum grade of C.
Concurrent PR: SFT 465 and SFT 454 and CHM 212 and CHM 218 and (PHY 203 or PHY 212) and PHY 204
Grade Mode: Normal Grading Mode

SFT 458 Hospital Safety **3 Credit hours**
The course covers the various aspects of safety and health in professional health care services.
Grade Mode: Normal Grading Mode

SFT 460 Safety Training Methods **3 Credit hours**
A course designed to help students develop, present and evaluate training materials as mandated by OSHA or other governmental agencies. Hands on practice & live training will be required.
Pre-req: SFT 372 or SFT 375.
Grade Mode: Normal Grading Mode

SFT 461 Workers Compensation **3 Credit hours**
Introductory principles of workers' compensation and how it relates to the safety professional.
Grade Mode: Normal Grading Mode

SFT 465 Incident Investigation and PSM **3 Credit hours**
An introductory course in traffic accident investigation designed to give insight into the recognition and collection of evidence, collecting and recording data and reconstruct- ing the accident based on the facts.
Pre-req: SFT 372 with a minimum grade of D and SFT 375 with a minimum grade of D and SFT 373 with a minimum grade of D.
Grade Mode: Normal Grading Mode

SFT 480 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

SFT 481 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

SFT 482 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

SFT 483 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

SFT 485 Independent Study **1-4 Credit hours**
Grade Mode: Normal Grading Mode

SFT 486 Independent Study **1-4 Credit hours**
Grade Mode: Normal Grading Mode

SFT 487 Independent Study **1-4 Credit hours**
Grade Mode: Normal Grading Mode

SFT 490 Safety Internship **3-12 Credit hours**
Pre-req: (CHM 212 with a minimum grade of C and CHM 218 with a minimum grade of C) and (PHY 203 with a minimum grade of C and PHY 204 with a minimum grade of C).
Attributes: Capstone Course, No Textbook Required
Grade Mode: Credit/No Credit Grade Only

SFT 491 Workshop **1-4 Credit hours**
Grade Mode: Normal Grading Mode

SFT 493 Workshop **1-4 Credit hours**
Grade Mode: Normal Grading Mode

SFT 494 Workshop **1-4 Credit hours**
Grade Mode: Normal Grading Mode

SFT 497 Occup Safety & Health Prog **3 Credit hours**
Safety functions in industry. Principles of organization and application of safety programs. Prevention, correction and control methods are outlined and evaluated.
Pre-req: SFT 235 with a minimum grade of C.
Grade Mode: Normal Grading Mode

SFT 498 Envir Safety & Health Legis **3 Credit hours**
A survey of the legislation that has affected the safety movement with special emphasis on the 1970 Occupational Safety and Health Act.
Pre-req: SFT 372 (may be taken concurrently) with a minimum grade of C and CHM 212 (may be taken concurrently) with a minimum grade of D and CHM 218 (may be taken concurrently) with a minimum grade of D.
Concurrent PR: SFT 372 and CHM 212 and CHM 218
Grade Mode: Normal Grading Mode

SFT 499 Dev & Mgt of Occup Safety Prog **3 Credit hours**
A study of safety program development, functions, organization and management.
Pre-req: SFT 372 with a minimum grade of D and CHM 212 with a minimum grade of D and CHM 218 with a minimum grade of D and (PHY 203 with a minimum grade of D or PHY 212 with a minimum grade of D) and PHY 204 with a minimum grade of D.
Grade Mode: Normal Grading Mode

SFT 536 Safety Ed for Elem Teachers **1 Credit hour**
Grade Mode: Normal Grading Mode

SFT 540 Indust Fire Protection **3 Credit hours**
An introductory course that explores the relationship between engineering and fire prevention. Topics include: water supplies, sprinkler systems, behavior of fire and materials, fire protection, fire extinguishers, and other systems.
Grade Mode: Normal Grading Mode

SFT 553 International Safety & Health **3 Credit hours**
The course covers the impact of globalization on worldwide safety and health programs, and a wide variety of safety and health programs for various countries and multi-national organizations.
Grade Mode: Normal Grading Mode

SFT 554 Indust Hygiene I **3 Credit hours**
Environmental protection as related to industrial settings. Air/water quality, noise and chemical pollution and hazardous material control.
Grade Mode: Normal Grading Mode

SFT 555 Environmental Prog/Sampling **3 Credit hours**
Grade Mode: Normal Grading Mode

SFT 558 Hospital Safety **3 Credit hours**
The course covers the various aspects of safety and health in professional health care services.
Grade Mode: Normal Grading Mode

SFT 561 Workers Comp **3 Credit hours**
Introductory principles of workers' compensation and how it relates to the safety professional.
Grade Mode: Normal Grading Mode

SFT 565 Incident Investigation Tech **3 Credit hours**
An introductory course in accident investigation designed to give insight into the recognition and collection of evidence, collection and recording data and reconstructing the accident based on the facts.
Grade Mode: Normal Grading Mode

SFT 575 System Safety Engineering **3 Credit hours**
Grade Mode: Normal Grading Mode

SFT 580 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

SFT 581 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

SFT 582 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

SFT 583 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

SFT 585 Independent Study **1-4 Credit hours**
Grade Mode: Normal Grading Mode

SFT 586 Independent Study **1-4 Credit hours**
Grade Mode: Normal Grading Mode

SFT 587 Independent Study **1-4 Credit hours**
Grade Mode: Normal Grading Mode

SFT 589 Process Safety Mgmt **3 Credit hours**
A study of the latest industrial safety information which will assist the student in designing a program to reduce or eliminate all incidents which downgrade the system.
Grade Mode: Normal Grading Mode

SFT 591 Workshop **1-4 Credit hours**
Grade Mode: Normal Grading Mode

SFT 592 Workshop **1-4 Credit hours**
Grade Mode: Normal Grading Mode

SFT 593 Workshop **1-4 Credit hours**
Grade Mode: Normal Grading Mode

SFT 594 Workshop **1-4 Credit hours**
Grade Mode: Normal Grading Mode

SFT 597 Occup Sft & Health Prog Dev **3 Credit hours**
Safety functions in industry. Principles of organization and application of safety programs. Prevention, correction, and control methods are outlined and evaluated.
Grade Mode: Normal Grading Mode

SFT 599 Dev & Mgt of Occup Safety Prog **3 Credit hours**
A study of safety programs at the state and local levels including the administrative, instructional, and protective aspects of a comprehensive safety program in schools, occupations, home and public.
Grade Mode: Normal Grading Mode

SFT 601 Safety in Transportation **3 Credit hours**
Concerned with safe, efficient movement of people and goods. Involves highway, air, water, pipeline, and rails.
Grade Mode: Normal Grading Mode

SFT 606 Field Esp Safety Specialist **3 Credit hours**
Grade Mode: Normal Grading Mode

SFT 610 Intro to Prof Safety & Health **3 Credit hours**
An analysis of the educational philosophies and the application of these philosophies to occupational safety. A study of the effect of occupational safety on modern living.
Grade Mode: Normal Grading Mode

SFT 630 Current Lit & Res in Safety **3 Credit hours**
An analysis and study of selected works of national and international authors concerning significant works in Occupational Safety.
Attributes: No Textbook Required
Grade Mode: Normal Grading Mode

SFT 645 Saf Engineering Equip Design **3 Credit hours**
The design and engineering of facilities and equipment to meet the physical needs of the human as well as enhancing production.
Grade Mode: Normal Grading Mode

SFT 647 Industrial Hygiene II **3 Credit hours**
Concerned with environmental health and safety hazards that arise out of or occur during work of employees.
Grade Mode: Normal Grading Mode

SFT 647L Quan Indus Hygiene Lab **3 Credit hours**
A laboratory course designed to complement Industrial Hygiene.
Grade Mode: Normal Grading Mode

SFT 648 Industrial Ventilation **3 Credit hours**
This course will cover the techniques of development, design maintenance, and troubleshooting of industrial ventilation systems. Also the types of ventilation systems used for different types of toxic materials. This course will cover the techniques of development, design maintenance, and troubleshooting of industrial ventilation systems. Also the types of ventilation systems used for different types of toxic materials.
Pre-req: SFT 647 or SED 647.
Grade Mode: Normal Grading Mode

SFT 649 Biophysical Hazards & Monitor **3 Credit hours**
Grade Mode: Normal Grading Mode

SFT 650 Internship Safety Specialist **3-12 Credit hours**
Attributes: No Textbook Required
Grade Mode: Credit/No Credit Grade Only

SFT 651 Toxicology & Epidemiology **3 Credit hours**
Grade Mode: Normal Grading Mode

SFT 652 Industrial Noise & Vibration **3 Credit hours**
Pre-req: (SFT 554 or SED 554) or (SFT 647 or SED 647).
Grade Mode: Normal Grading Mode

SFT 660 Appl Ergon and Hum Factors Eng **3 Credit hours**
A study of how humans interact with the work environment, focusing on human capabilities and limitations, repetitive motion disorders, the human/machine interface and workspace design.
Attributes: No Textbook Required
Grade Mode: Normal Grading Mode

SFT 661 Adv Occup Ergonomics **3 Credit hours**
Pre-req: SFT 660 or SED 660.
Grade Mode: Normal Grading Mode

SFT 662 Methods in Work Analysis **3 Credit hours**
Grade Mode: Normal Grading Mode

SFT 663 Work Environment Issues **3 Credit hours**
An examination of the aspects of the work environment that can affect health: time pressure, machine pacing, control etc. The recognition, measurement and control of these factors will be discussed. An examination of the aspects of the work environment that can affect health: time pressure, machine pacing, control etc. The recognition, measurement and control of these factors will be discussed.
Grade Mode: Normal Grading Mode

SFT 669 Traffic Safety Management **3 Credit hours**
Grade Mode: Normal Grading Mode

SFT 679 Problem Report **1-3 Credit hours**
Grade Mode: Normal Grading Mode

SFT 681 Thesis **1-6 Credit hours**
Attributes: No Textbook Required, Thesis
Grade Mode: Normal Grading Mode

SFT 690 Seminar **1-4 Credit hours**
Grade Mode: Normal Grading Mode

SFT 691 Seminar **1-4 Credit hours**
Grade Mode: Normal Grading Mode

SFT 692 Seminar **1-4 Credit hours**
Grade Mode: Normal Grading Mode

Aerospace Engineering, Emphasis

Mechanical engineering is the application of the principles of engineering and problem-solving techniques from design to manufacturing to the market for any product including aircrafts. Mechanical engineers analyze their work using the principles of motion, force, and energy ensuring that designs function safely, reliably, and efficiently, all at a competitive price. The aeromechanical field is a shared discipline between mechanical engineering and aerospace engineering. It prepares students to deal with the interactions between the flow of air and the mechanical behavior of structures and materials in the flow. Subjects in this discipline include aircraft design, composite materials, finite element stress analysis, dynamics and control of machinery, aerodynamics, and compressible fluid flow.

The U.S. aerospace industry is a major source of technological innovation with substantial spillovers to other industrial and commercial sectors. High wage employment, spreads the benefits of rising productivity throughout the U.S. economy. Employment of engineers with of aerospace competencies is projected to grow 8 percent from 2020 to 2030, about as strong as the average for all occupations.

The aerospace industry is a vibrant and emerging industrial sector in the state of West Virginia. From promising advanced innovators to established giants of the industry, the state's growing cluster of aerospace companies is fueled by a range of advantages. The Mountain State is within easy driving distance of about 40% of the top national buying sectors of aircraft products and defense contractors, corporations, and federal agencies. Additionally, the state is near original equipment manufacturers based in the South, including Airbus, Boeing, Lockheed Martin, and others. In 2019, the aerospace industry supported 4,000 jobs and created a $1.3 billion total economic output in West Virginia. A hidden gem, the state's aerospace industry is built around access to raw materials, development assistance, education, and location.

Cooperative Education

Students may elect to participate in the cooperative education program. Students in the program will have periodic full-time work experiences in their area of interest with participating companies. Information on the program can be obtained from the chair or academic advisor.

Code	Title	Credit Hours
Core Curriculum [1]		
Core I: Critical Thinking		
FYS 100	First Yr Sem Critical Thinking	3
or FYS 100H	First Year Seminar-Honors	
Two Critical Thinking Courses		6
Core II		
ENG 101	Beginning Composition	3
ENG 201	Advanced Composition (Completion of ENG 201H - English Composition Honors (3 CH) with a C or better also satisfies the university composition requirement)	3
CMM 103	Fund Speech-Communication	3
or CMM 207	Bus & Prof Communication	
Math: (requirement met in major)		
Physical or Natural Science: (requirement met in major)		
Core II Social Science		
Core II Humanities		
Core II Fine Arts		
Additional University Requirements		
Two Writing Intensive courses		6
One Multicultural (m) or International (I) course		3
Mathematics		**16**
MTH 229	Calculus/Analytic Geom I (CT)	
MTH 230	Calculus/Analytic Geom II	
MTH 231	Calculus/Analytic Geom III	
MTH 335	Ordinary Diff Equations	
Science		**12**
CHM 211	Principles of Chemistry I	
PHY 211	University Physics I	
PHY 202	General Physics I Laboratory	
PHY 213	University Physics II	
Engineering		**26**
ENGR 102	Introduction to CAD	
ENGR 103	First-Year Engineering Seminar	
ENGR 104	The Engineering Profession	
ENGR 213	Statics	
ENGR 214	Dynamics	
ENGR 215	Engineering Materials	
ENGR 216	Mech of Deformable Bodies	
ENGR 217	Engineering Co-Op Preparation	
ENGR 219	Engineering Thermodynamics	
ENGR 222	Engr Cost Analysis & Economy	
ENGR 335	Adv Engineering Analysis	
Core Mechanical Engineering		**34**
ME 111	Mech Engineering Computations	
ME 240	Manufacturing Processes	
ME 305	Aircraft Systems	
ME 245	Circuits and Instrumentation	
ME 310	Thermodynamics II	
ME 325	Experimental Design and Thermo	
ME 340	Machine Element Design	
ME 350	Heat Transfer	
ME 360	Fluid Dynamics	
ME 312	Flight Mechanics	
ME 422	Flight Stability and Control	
ME 425	Mechanical Engineering Lab-II	
ME 456	Materials for Aerospace	
Capstone Design, Design Elective, and Technical Electives		**16**
ME 452	Capstone Design I [2]	
ME 453	Capstone Design II [3]	
Design Elective		**3**
ME 430	Design of Thermal Systems	
or ME 435	Design of Mechanical System	

Technical Electives		9
Students who select aerospace engineering as an area of emphasis must take three of the following courses:		
ME 320	Fluid Power	
ME 445	Hydraulic & Pneumatic Control	
ME 451	Jet Propulsion	
ME 460	Vibrations	
ME 471	Finite Elements Method	
ME 473	Computational Fluid Dynamics	
Other courses may be taken to satisfy this requirement with the approval of the student's advisor and the chair.		

[1] *Transfer Students:* Freshman transfer students must complete Core I at Marshall. Core II can be completed with Marshall or transfer courses. Transfers with 26 or more credit hours must complete one CT course but are exempt from the remaining Core I requirements. Core II can be completed with Marshall or transfer courses.

[2] To be eligible to take Senior Capstone I (ME 452), students must have senior standing in mechanical engineering. Senior standing is defined for the B.S.M.E. as having completed the following courses:

- ME 325 - Experimental Design and Thermo-Fluid Lab (2 CH)
- ME 350 - Heat Transfer (3 CH)
- ME 410 - Kinematics & Design of Machines (3 CH) or ME 422-Flight Stability and Control (3 CH)

[3] To be eligible to take the ME 453 Senior Capstone II student must have completed ME 452, and at least one of the Design Electives (ME 430 or ME 435).

Engineering, B.S.E.

Contact: Dr. Gregory Michaelson, P.E., Associate Dean (michaelson@marshall.edu)

The Program Educational Objectives of the Bachelor of Science in Engineering (B.S.E.) program are that within a few years of graduation program graduates will:

1. Obtain employment, or an advanced educational opportunity, that utilizes their critical thinking and technical skills.
2. Continue the development of their communication, collaboration, and technical skills, including an understanding of the expectations, standards, and responsibilities associated with their profession.
3. Practice their profession for the benefit of society with attention to ethical, societal, environmental, safety, health, and constructability considerations.

The student outcomes of the B.S.E. are:

1. An ability to identify, formulate, and solve complex engineering problems by applying principles of engineering, science, and mathematics.
2. An ability to apply engineering design to produce solutions that meet specified needs with consideration of public health, safety, and welfare, as well as global, cultural, social, environmental, and economic factors.
3. An ability to communicate effectively with a range of audiences.
4. An ability to recognize ethical and professional responsibilities in engineering situations and make informed judgments, which must consider the impact of engineering solutions in global, economic, environmental, and societal contexts.
5. An ability to function effectively on a team whose members together provide leadership, create a collaborative and inclusive environment, establish goals, plan tasks, and meet objectives.
6. An ability to develop and conduct appropriate experimentation, analyze and interpret data, and use engineering judgment to draw conclusions.
7. An ability to acquire and apply new knowledge as needed, using appropriate learning strategies.

Admission Requirements

- Meet Marshall University admission requirements
- Admission to the B.S.E. Engineering program requires a minimum composite ACT score of 21 with a math score of 24, or a minimum SAT composite of 980 with a math SAT of 560.
- Transfer students must have completed MTH 127 College Algebra-Expanded/MTH 130 College Algebra and MTH 132 Precalculus with Sci Applica.

For those needing to complete some requirements first, there is Pre-Engineering. Requirements for Pre-Engineering are a minimum composite ACT score of 19 with a math score of 19-23, or a minimum SAT composite of 900 with a math SAT of 460-550. Students who are admitted to the Pre-Engineering program generally will require an additional calendar year to complete the requirements for the B.S.E. degree. Transfer students must be eligible to take MTH 127 College Algebra-Expanded/MTH 130 College Algebra and MTH 132 Precalculus with Sci Applica.

Graduation Requirements

The B.S.E. degree program requires a minimum of 124 credit hours of coursework as outlined below. In addition to fulfilling the university's requirements for graduation, B.S.E. students must maintain a minimum GPA of 2.0 in all professional courses. These professional courses include mathematics (MTH 229 Calculus/Analytic Geom I (CT) or above), required science courses, core engineering (ENGR) courses, engineering emphasis courses (CE), and courses used as technical electives. Entering students with a math ACT of 24-26 are required to take MTH 132 Precalculus with Sci Applica. Such students will likely need an extra semester or summer term to satisfy BSE requirements.

- General Education Course

- Milestone course: a key success marker for your major. See your advisor to discuss the importance of this course in your plan of study.

The Core Curriculum is designed to foster critical thinking skills and introduce students to basic domains of thinking that transcend disciplines. The Core applies to all majors. Information on specific classes in the Core can be found at https://www.marshall.edu/gened/.

Code	Title	Credit Hours
Core 1: Critical Thinking		
FYS 100	First Yr Sem Critical Thinking	3
MTH 229	Calculus/Analytic Geom I (CT)	5
SFT 235	Intro to Occup Safety (CT)	3
Core 2		

ENG 101	Beginning Composition	3
ENG 201	Advanced Composition	3
CMM 103	Fund Speech-Communication	3
MTH 229	Calculus/Analytic Geom I (CT)	5
CHM 211	Principles of Chemistry I	3
CHM 217	Principles of Chem Lab I	2
Core II Humanities		
Core II Social Science		
Core II Fine Arts		
Additional University Requirements		
ENGR 451	Intro to Proj Management	3
ENGR 473	Capstone Senior Design (Writing Intensive)	3
SFT 235	Intro to Occup Safety (CT) (Multicultural or International)	3
ENGR 473	Capstone Senior Design (Capstone)	3
Major-Specific		
MTH 229	Calculus/Analytic Geom I (CT)	5
MTH 230	Calculus/Analytic Geom II	4
MTH 231	Calculus/Analytic Geom III	4
MTH 335	Ordinary Diff Equations	3
STA 345	Applied Prob and Stat	3
CHM 211	Principles of Chemistry I	3
CHM 217	Principles of Chem Lab I	2
PHY 211	University Physics I	4
PHY 202	General Physics I Laboratory	1
Select one of the following:		
BSC 120	Principles of Biology I (and 120L)	
or BSC 120H	Principles of Biology I Honors	
CHM 212	Principles Chemistry II (and CHM 218)	
MTH 300	Intro to Higher Math	
MTH 329	Elementary Linear Algebra	
PHY 213	University Physics II (and PHY 204)	
STA 445	Probability & Statistics I	
ENGR 103	First-Year Engineering Seminar	1
ENGR 104	The Engineering Profession	1
Select one of the following:		
CE 102	Introduction to CAD	
ENGR 102	Introduction to CAD	
Select one of the following:		
CS 110	Computer Science I	
ENGR 111	Engineering Computations	
ME 111	Mech Engineering Computations	
ENGR 213	Statics	3
ENGR 214	Dynamics	3
ENGR 215	Engineering Materials	3
ENGR 216	Mech of Deformable Bodies	3
ENGR 217	Engineering Co-Op Preparation	1
ENGR 219	Engineering Thermodynamics	3
ENGR 222	Engr Cost Analysis & Economy	3
ENGR 318	Fluid Mechanics	3
ENGR 319	Fluid Mechanics Laboratory	1
ENGR 451	Intro to Proj Management	3
ENGR 473	Capstone Senior Design	3
ME 245	Circuits and Instrumentation	3
ME 330	Manufacturing Methods/Design	3
SFT 235	Intro to Occup Safety (CT)	3
Engineering Elective Option		3
Select one of the following: Any 300-level or higher BME, CE, EE, ENGR, IE, or ME course not taken to satisfy degree requirements or area of emphasis requirements.		
Area of Emphasis Requirements		**24-33**

- Engineering, General Emphasis (p. 488)
- Engineering, Industrial and Systems Emphasis (p. 488)
- Engineering, Physics Emphasis (http://catalog.marshall.edu/undergraduate/programs-az/engineering-computer-sciences/college-programs/engineering-bse/engineering-physics-emphasis/)

General Engineering Emphasis

Course	Title	Credit Hours
First Year		
First Semester		
ENGR 103	First-Year Engineering Seminar	1
ENGR 104	The Engineering Profession	1
MTH 229	Calculus/Analytic Geom I (CT)	5
ENG 101	Beginning Composition	3
CMM 103	Fund Speech-Communication	3
FYS 100	First Yr Sem Critical Thinking	3
UNI 100	Freshman First Class	1
	Credit Hours	**17**
Second Semester		
CAD Course; one of the following:		2
CE 102	Introduction to CAD	
ENGR 102	Introduction to CAD	
Computations Course; one of the following:		3
CS 110	Computer Science I	
ENGR 111	Engineering Computations	
ME 111	Mech Engineering Computations	
MTH 230	Calculus/Analytic Geom II	4
PHY 211	University Physics I	4
PHY 202	General Physics I Laboratory	1
ENG 201	Advanced Composition	3
	Credit Hours	**17**
Second Year		
First Semester		
ENGR 213	Statics	3
MTH 231	Calculus/Analytic Geom III	4
CHM 211	Principles of Chemistry I	3
CHM 217	Principles of Chem Lab I	2
SFT 235	Intro to Occup Safety (CT)	3
	Credit Hours	**15**

Second Semester		
ENGR 214	Dynamics	3
ENGR 216	Mech of Deformable Bodies	3
ENGR 222	Engr Cost Analysis & Economy	3
MTH 335	Ordinary Diff Equations	3
ENGR 217	Engineering Co-Op Preparation	1
Emphasis Course 1		3
	Credit Hours	**16**
Third Year		
First Semester		
ENGR 318	Fluid Mechanics	3
ENGR 319	Fluid Mechanics Laboratory	1
ENGR 215	Engineering Materials	3
STA 345	Applied Prob and Stat	3
Emphasis Course 2		3
Emphasis Course 3		3
	Credit Hours	**16**
Second Semester		
ENGR 219	Engineering Thermodynamics	3
ME 245	Circuits and Instrumentation	3
ME 330	Manufacturing Methods/Design	3
Math Science Elective		3-5
Emphasis Course 4		3
	Credit Hours	**15-17**
Fourth Year		
First Semester		
ENGR 451	Intro to Proj Management	3
Engineering Elective Option		3-4
Emphasis Course 5		3
Emphasis Course 6		3
Core II Social Science (MC/I, WI)		3
	Credit Hours	**15-16**
Second Semester		
ENGR 473	Capstone Senior Design	3
Emphasis Course 7		3
Emphasis Course 8		3
Core II Humanities (WI, CT)		3
Core II Fine Arts		3
	Credit Hours	**15**
	Total Credit Hours	**126-129**

Engineering, General Emphasis

Code	Title	Credit Hours
Select eight of the following:		24
Any 300-level or higher BME, CE, EE, ENGR, IE, or ME courses that have not been taken to satisfy other degree requirements.		

Engineering, Industrial and Systems Emphasis

Code	Title	Credit Hours
IE 303	Work Design	3
IE 305	System Engineering	3
IE 401	Modeling & Quan Analysis	3
IE 404	Quality Control	3
MKT 350	Supply Chain Logistics	3
SFT 373	Prin Ergonomics & Hum Factors	3
IE Electives		6
Any 300-level or higher courses not taken to satsfy other requirements.		
Total Credit Hours		**24**

Mechanical Engineering, B.S.M.E.

Dr. Asad Salem, Department Chair
asad.salem@marshall.edu

The Marshall University Bachelor of Science in Mechanical Engineering (B.S.M.E.) program goals are as follows:

1. Practice the mechanical engineering discipline successfully within community accepted standards.
2. Achieve personal and professional success with awareness and commitment to ethical and social responsibilities, both as individuals and in team environments.
3. Engage in professional service, such as participation in professional society and community service.
4. Engage in lifelong learning activities, such as graduate studies or professional workshops.
5. Develop a professional career in the prevailing market that meets personal goals, objectives and desires.

The student outcomes of the B.S.M.E. are:

1. An ability to identify, formulate, and solve complex engineering problems by applying principles of engineering, science, and mathematics.
2. An ability to apply engineering design to produce solutions that meet specified needs with consideration of public health, safety, and welfare, as well as global, cultural, social, environmental, and economic factors.
3. An ability to communicate effectively with a range of audiences.
4. An ability to recognize ethical and professional responsibilities in engineering situations and make informed judgments, which must consider the impact of engineering solutions in global, economic, environmental, and societal contexts.
5. An ability to function effectively on a team whose members together provide leadership, create a collaborative and inclusive environment, establish goals, plan tasks, and meet objectives.
6. An ability to develop and conduct appropriate experimentation, analyze and interpret data, and use engineering judgment to draw conclusions.

7. An ability to acquire and apply new knowledge as needed, using appropriate learning strategies.

Admission Requirements

- Meet Marshall University admission requirements.
- Admission to the B.S.M.E. program requires a minimum composite ACT score of 21 with a math score of 24, or a minimum SAT composite of 980 with a math SAT of 560.
- Transfer students must have completed MTH 127 College Algebra-Expanded/MTH 130 College Algebra and MTH 132 Precalculus with Sci Applica.

Students not meeting the ACT/SAT score requirements above may enroll in Pre-Engineering. Requirements for Pre-Engineering are a minimum composite ACT score of 19 with a math score of 19-23, or a minimum SAT composite of 900 with a math SAT of 460-550. Students who are admitted to the Pre-Engineering program generally will require an additional calendar year to complete the requirements for the B.S.M.E. degree. Transfer students must be eligible to take MTH 127 College Algebra-Expanded/MTH 130 College Algebra and MTH 132 Precalculus with Sci Applica.

Graduation Requirements

The B.S.M.E. degree program requires a minimum of 125 credit hours of coursework. In addition to fulfilling the university's requirements for graduation, B.S.M.E. students must maintain a minimum GPA of 2.0 in all professional courses. These professional courses include mathematics (MTH 229 Calculus/Analytic Geom I (CT) or above), required science courses, core engineering (ENGR) courses, mechanical engineering courses (ME), and courses used as technical electives. Entering students with a Math ACT of 24-26 are required to take MTH 132 Precalculus with Sci Applica. Such students will likely need an extra semester or summer term to satisfy B.S.M.E. requirements.

Co-operative Education

Students may elect to participate in the co-operative education program. Students in the program will have periodic full-time work experiences in their area of interest with participating companies. Information on the program can be obtained from the department chair or academic advisor.

- General Education Course

- Milestone course: a key success marker for your major. See your advisor to discuss the importance of this course in your plan of study.

Major

The Core Curriculum is designed to foster critical thinking skills and introduce students to basic domains of thinking that transcend disciplines. The Core applies to all majors. Information on specific classes in the Core can be found at https://www.marshall.edu/gened/.

Code	Title	Credit Hours
Core Curriculum		
Core 1: Critical Thinking		
FYS 100	First Yr Sem Critical Thinking	3
or FYS 100H	First Year Seminar-Honors	
Two Critical Thinking Course		6
Core 2		
ENG 101	Beginning Composition	3
ENG 201	Advanced Composition	3
CMM 103	Fund Speech-Communication	3
or CMM 207	Bus & Prof Communication	
Math: requirement met in major		
Physical or Natural Science (requirement met in major)		
Core II Social Science		3
Core II Humanities		3
Core II Fine Arts		3
Additional University Requirements		
Two Writing Intensive (W) courses		6
One Multicultural (M) or International (I)		3
Major-Specific		
MTH 229	Calculus/Analytic Geom I (CT)	5
MTH 230	Calculus/Analytic Geom II	4
MTH 231	Calculus/Analytic Geom III	4
MTH 335	Ordinary Diff Equations	3
CHM 211	Principles of Chemistry I	3
PHY 211	University Physics I	4
PHY 202	General Physics I Laboratory	1
PHY 213	University Physics II	4
ENGR 102	Introduction to CAD	2
ENGR 103	First-Year Engineering Seminar	1
ENGR 104	The Engineering Profession	1
ENGR 213	Statics	3
ENGR 214	Dynamics	3
ENGR 215	Engineering Materials	3
ENGR 216	Mech of Deformable Bodies	3
ENGR 217	Engineering Co-Op Preparation	1
ENGR 219	Engineering Thermodynamics	3
ENGR 222	Engr Cost Analysis & Economy	3
ENGR 335	Adv Engineering Analysis	3
ME 111	Mech Engineering Computations	3
ME 240	Manufacturing Processes	3
ME 245	Circuits and Instrumentation	3
ME 310	Thermodynamics II	3
ME 325	Experimental Design and Thermo	2
ME 340	Machine Element Design	3
ME 350	Heat Transfer	3
ME 360	Fluid Dynamics	4
ME 410	Kinematics & Design of Machine	3
ME 420	Control Systems	3
ME 425	Mechanical Engineering Lab-II	1
ME 455	Metallurgy	3

Students who select aerospace engineering as an area of emphasis must take the following courses:

ME 305	Aircraft Systems (in place of ME 240-Manufacturing Processes)	
ME 312	Flight Mechanics (in place of ME 410, Kinematics & Machine Design)	

ME 422	Flight Stability and Control (in place of ME 420, Contol Systems)	
ME 456	Materials for Aerospace (in place of ME 455, Metallurgy)	
Capstone Design, Design Elective, and Technical Electives		
ME 452	Capstone Design I [1]	1
ME 453	Capstone Design II [2]	3
Design Elective		*3*
At least one design elective must be taken from the following courses:		
ME 430	Design of Thermal Systems	
ME 435	Design of Mechanical System	
Technical Electives		*9*
At least three technical electives must be taken from the following approved list of courses:		
Any 300-level or higher ME course not taken to satisfy other B.S.M.E. degree requirements		
Any 300-level or higher CE, EE, or BME course not taken to satisfy other B.S.M.E. requirements		
Any 300-level or higher ENGR course not taken to satisfy other B.S.M.E. degree requirements		
Other courses with the approval of the student's advisor and the department chair		

[1] To be eligible to take ME 452 Capstone Design I, students must have senior standing in mechanical engineering. Senior standing is defined for the B.S.M.E. as having completed or concurrently taking these three courses: ME 325 Experimental Design and Thermo, ME 350 Heat Transfer, and ME 410 Kinematics & Design of Machine.

[2] To be eligible to take ME 453 Capstone Design II, students must have completed ME 452 Capstone Design I and at least one of the design electives (ME 430 Design of Thermal Systems or ME 435 Design of Mechanical System).

Major Information

- Course offerings and course attributes are subject to change each semester. Please consult each semester's schedule of courses for availability and attributes.
- Students are required to know and track their degree requirements for graduation or for entrance to a professional school.

- General Education Course

- Milestone course: a key success marker for your major. See your advisor to discuss the importance of this course in your plan of study.

Four Year Plan

Mechanical Engineers apply fundamental math and physics laws to design, fabricate and innovate mechanical devices. They are multi-skilled and have working knowledge of computers, electricity, structures and mechanisms, materials, and manufacturing processes. The Bachelor of Science in Mechanical Engineering (B.M.S.E.) at Marshall University is designed to emphasize service, systems-based knowledge, and sustainability combining a traditional engineering approach with new and emerging fields.

Course	Title	Credit Hours
First Year		
First Semester		
CHM 211	Principles of Chemistry I	3
MTH 229	Calculus/Analytic Geom I (CT)	5
ENGR 103	First-Year Engineering Seminar	1
ENGR 104	The Engineering Profession	1
CMM 103	Fund Speech-Communication	3
FYS 100 or FYS 100H	First Yr Sem Critical Thinking or First Year Seminar-Honors	3
	Credit Hours	**16**
Second Semester		
MTH 230	Calculus/Analytic Geom II	4
ENG 101	Beginning Composition	3
ENGR 102	Introduction to CAD	2
PHY 211	University Physics I	4
PHY 202	General Physics I Laboratory	1
ME 111	Mech Engineering Computations	3
	Credit Hours	**17**
Second Year		
First Semester		
ENGR 213	Statics	3
ENGR 215	Engineering Materials	3
ME 245	Circuits and Instrumentation	3
MTH 231	Calculus/Analytic Geom III	4
PHY 213	University Physics II	4
	Credit Hours	**17**
Second Semester		
ENGR 214	Dynamics	3
ENGR 216	Mech of Deformable Bodies	3
ENGR 217	Engineering Co-Op Preparation	1
ENGR 219	Engineering Thermodynamics	3
ME 240	Manufacturing Processes	3
MTH 335	Ordinary Diff Equations	3
	Credit Hours	**16**
Third Year		
First Semester		
ME 360	Fluid Dynamics	4
ME 310	Thermodynamics II	3
ENGR 335	Adv Engineering Analysis	3
ME 340	Machine Element Design	3
ENGR 222	Engr Cost Analysis & Economy	3
	Credit Hours	**16**
Second Semester		
Core II Social Science (MC/I, WI)		3
ME 420	Control Systems	3
ME 325	Experimental Design and Thermo	2
ME 350	Heat Transfer	3
ME 410	Kinematics & Design of Machine	3

ENG 201	Advanced Composition	3
	Credit Hours	**17**
Fourth Year		
First Semester		
ME 425	Mechanical Engineering Lab-II	1
ME 452	Capstone Design I	1
ME Technical Elective		3
ME Technical Elective II		3
Core II Fine Art		3
ME Design Elective		3
	Credit Hours	**14**
Second Semester		
ME 453	Capstone Design II	3
ME 455	Metallurgy	3
ME Technical Elective III		3
Core II Humanities (WI, CT)		3
	Credit Hours	**12**
	Total Credit Hours	**125**

Mechanical Engineering, Accelerated Master's Degree

Dr. Asad Salem, Department Chair
asad.salem@marshall.edu

Students enrolled in the Mechanical Engineering Accelerated Graduate Degree program can complete the bachelor's degree by lowering the number of undergraduate credits (up to 12) with up to 12 graduate credits that will apply to the master's degree in mechanical engineering. Please see the section on Accelerated Graduate Degrees in this catalog for further information.

- *Thesis Option:* Three graduate ME, CE, ENGR or EE Courses (500 or 600 Level) can be taken to meet the Technical Electives requirement. In addition, ME 420 (https://catalog.marshall.edu/search/?P=ME%20420) Control Systems can be substituted by ME 560 (https://catalog.marshall.edu/search/?P=ME%20560) Automation and Control, and ME 455 Metallurgy can be substituted by a ME graduate course.
- *Coursework Option:* Three graduate ME, CE, ENGR or EE (500 or 600 Level) can be taken to meet the Technical Electives requirement. In addition, ME 420 (https://catalog.marshall.edu/search/?P=ME%20420) Control Systems can be substituted by ME 560 (https://catalog.marshall.edu/search/?P=ME%20560) Automation and Control, and ME 455 Metallurgy can be substituted by a ME graduate course.

Applicants for the Accelerated Graduate Degree program in Mechanical Engineering must be undergraduate Mechanical Engineering students and have completed a minimum of 80 credit hours, including:

Code	Title	Credit Hours
ENGR 335	Adv Engineering Analysis	3
ME 310	Thermodynamics II	3
ME 340	Machine Element Design	3
ME 360	Fluid Dynamics	4

The applicant must have a minimum overall Grade Point Average of 3.30, with 3.30 in the major and no less than a *B* grade in the following courses: ENGR 335. ME 310, ME 340 and ME 360.

Occupational Safety and Health, B.S.

James D. McIntosh, CIH, CSP, Chair
mcintoshj@marshall.edu

The safety profession is an occupational field concerned with the preservation of both human and property resources through the application of various principles drawn from disciplines such as engineering, education, psychology, physiology, hygiene, health, physics and management. "Occupational Safety and Health" is a term for everything that goes into the prevention of accidents, illnesses, fires, explosions and other events which damage people, property and the environment.

The Bachelor of Science degree in Occupational Safety and Health offers students the option of preparing for entry-level positions in industry, governmental agencies and related service industries. The need for safety professionals has expanded due to Federal and State legislation governing safety and health in the workplace and an increase in public awareness of safety and health factors.

The program is accredited by the Applied Science Accreditation Commission/Accreditation Board for Engineering and Technology (ASAC/ABET) and by the Board of Certified Safety Professionals (BCSP) for the preparation of safety professionals. The BCSP accreditation allows our graduating seniors to be awarded the designation of GSP (Graduate Safety Practitioner). This certification provides a significant advantage to our students entering the job market. Students can apply online for the GSP at https://www.bcsp.org/. The GSP designation will take the place of the ASP designation as the student graduates and continues work toward becoming a Certified Safety Professional (CSP).

The Program Educational Objectives of Marshall University's BS in Occupational Safety and Health have been developed to prepare graduates to achieve the professional accomplishments and recognition appropriate for successful careers in occupational safety and health including:

1. Graduates will be able to apply a broad educational background in mathematics, science, technology, communications, and management to the challenges and demands of occupational safety and health in industrial, commercial, governmental, and service organizations of today's global economy.
2. Graduates will be able to apply critical thinking skills to the anticipation, identification, evaluation, prevention and control of occupational and environmental hazards relative to accident prevention, construction safety, environmental protection, emergency preparedness, ergonomics and human factors, fire prevention, hazardous materials safety, industrial hygiene, process safety, and occupational health.
3. Graduates will be able to apply communication, problem solving, and team building skills to facilitate the continuous improvement of occupational safety, environmental health, and risk control management systems.

4. Graduates will develop ethical, societal, and professional responsibility, recognize the limits of their knowledge, and pursue life-long learning opportunities to enhance their value to the organizations, communities and stakeholders they serve.

It is the responsibility of the Applied Science and Technology Department to ensure that baccalaureate degree students graduating from the Occupational Safety and Health Program at Marshall University will be able to demonstrate the following Student Outcomes with respect to the occupational safety and health profession:

1. An ability to apply knowledge of mathematics, science, and applied sciences, formulate or design a system, process, or program to meet desired needs, identify and solve applied science problems.
2. Ability to understand the impact of solutions in a global and societal context and an ability to engage in life-long learning.
3. Ability to design and conduct experiment, as well as to analyze and interpret data.
4. Ability to communicate effectively.
5. Ability to use the techniques, skills, and modern scientific and technical tools necessary for professional practice, knowledge of contemporary issues, understanding of professional and ethical responsibility.
6. Ability to function on multidisciplinary teams.

To qualify for admission to the B.S. in Occupational Safety and Health degree program a minimum Math ACT of 17 and minimum composite ACT of 17. (MTH SAT 440; composite SAT 820) is required. Each student in the program will be expected to maintain a 2.0 GPA overall and in areas of specialization. An internship (capstone experience) is required to be completed under the Core Curriculum and the program requirements.

- General Education Course

- Milestone course: a key success marker for your major. See your advisor to discuss the importance of this course in your plan of study.

Major

The Core Curriculum is designed to foster critical thinking skills and introduce students to basic domains of thinking that transcend disciplines. The Core applies to all majors. Information on specific classes in the Core can be found at https://www.marshall.edu/gened/.

Code	Title	Credit Hours
Core Curriculum		
Core 1: Critical Thinking		
FYS 100	First Yr Sem Critical Thinking	3
SFT 235	Intro to Occup Safety (CT)	3
PSY 201	Introductory Psychology (CT)	3
Core 2		
ENG 101	Beginning Composition	3
ENG 201	Advanced Composition	3
CMM 103	Fund Speech-Communication	3
MTH 127	College Algebra-Expanded	3-5
or MTH 130	College Algebra	
BSC 104	Introduction to Biology	3
or BSC 120	Principles of Biology I	
BSC 104L	Introduction to Biology Lab	1
or BSC 120L	Principles of Biology I Lab	
Core II Humanities (WI section)		3
PSY 201	Introductory Psychology (CT)	3
Core II Fine Arts		3
Additional University Requirements		
ENG 354	Scientific & Tech Writing	3
Writing Intensive (rec. Core II Hum)		3
SFT 235	Intro to Occup Safety (CT) (Multicultural or International)	3
SFT 490	Safety Internship (Senior Project)	3
Major-Specific		
ENG 354	Scientific & Tech Writing (WI)	3
Select one of the following:		3-5
MTH 122	Plane Trigonometry	
MTH 132	Precalculus with Sci Applica	
MTH 229	Calculus/Analytic Geom I (CT)	
CHM 211	Principles of Chemistry I	3
CHM 217	Principles of Chem Lab I	2
CHM 212	Principles Chemistry II	3
CHM 218	Principles of Chem Lab II	2
PHY 201	College Physics I	3
PHY 202	General Physics I Laboratory	1
PHY 203	College Physics II	3
PHY 204	General Physics 2 Laboratory	1
BSC 104	Introduction to Biology	4
or BSC 120	Principles of Biology I	
MGT 320	Principles of Management	3
or ACC 215	Accounting Principles (CT)	
Stats Elective: Select one of the following:		
PSY 223	Elem Behavioral Stat	
MGT 218	Business Quantitative Methods	
STA 225	Introductory Statistics (CT)	
PSY 201	Introductory Psychology (CT)	3
HS 201	Intro Appl Anat & Physiol	3
SFT 235	Intro to Occup Safety (CT) (I)	3
SFT 340	Indust Fire Prevent	3
SFT 372	Safety & Industrial Tech	3
SFT 373	Prin Ergonomics & Hum Factors	3
SFT 373L	Prin of Ergonomics Lab	1
SFT 375	Construction Safety I	3
SFT 378	Safety Eval & Measurement	3
SFT 454	Industrial Hygiene	3
SFT 454L	Industrial Hygiene Lab	2
SFT 460	Safety Training Methods	3
SFT 465	Incident Investigation and PSM	3
SFT 498	Envir Safety & Health Legis	3
SFT 499	Dev & Mgt of Occup Safety Prog	3
SFT 490	Safety Internship	3
SFT Electives		*12*

Select four of the following:		
SFT 453	International Safety & Health	
SFT 458	Hospital Safety	
SFT 461	Workers Compensation	
SFT 480	Special Topics	
SFT 481	Special Topics	
SFT 482	Special Topics	
SFT 483	Special Topics	
SFT 485	Independent Study	
SFT 486	Independent Study	
SFT 487	Independent Study	
SFT 491	Workshop	
SFT 493	Workshop	
SFT 494	Workshop	
BSC 250	Microbiol & Human Disease	
ENGR 222	Engr Cost Analysis & Economy	
ENGR 451	Intro to Proj Management	
Free Elective		3
Free Elective		2

Major Information

- The mathematics a student must take will depend upon several factors such as the student's ACT score and mathematics proficiency. It is very important to talk to your advisor in selecting courses.
- A minimum of 120 hours is required for graduation.
- Because the B.S. degree is an accredited program by ASAC/ABET, students must be able to demonstrate "proficiency" in the areas of mathematics and statistics; chemistry, physics, and sciences; communication studies; psychology and physiology; and major field of study, i.e. safety. To demonstrate proficiency in the areas, a grade no less than a *C* is required. Courses in the areas of proficiency listed above cannot be completed under the CR/NC course option.
- Course offerings and course attributes are subject to change semesters. Please consult each semesters schedule of courses for availability and attributes.
- Students are required to know and track their degree requirements for graduation or for entrance to a professional school.

- General Education Course

- Milestone course: a key success marker for your major. See your advisor to discuss the importance of this course in your plan of study.

Four Year Plan

Course	Title	Credit Hours
First Year		
First Semester		
SFT 235	Intro to Occup Safety (CT)	3
ENG 101	Beginning Composition	3
MTH 127 or MTH 130	College Algebra-Expanded or College Algebra	3-5
CMM 103	Fund Speech-Communication	3
FYS 100	First Yr Sem Critical Thinking	3
UNI 100	Freshman First Class	1
	Credit Hours	**16-18**
Second Semester		
BSC 104 or BSC 120	Introduction to Biology or Principles of Biology I	3
BSC 104L or BSC 120L	Introduction to Biology Lab or Principles of Biology I Lab	1
Core II Fine Arts		3
ENG 201	Advanced Composition	3
SFT 372	Safety & Industrial Tech	3
Select one of the following:		3-5
MTH 122	Plane Trigonometry	
MTH 132	Precalculus with Sci Applica	
MTH 229	Calculus/Analytic Geom I (CT)	
	Credit Hours	**16-18**
Second Year		
First Semester		
PSY 201	Introductory Psychology (CT)	3
PHY 201	College Physics I	3
PHY 202	General Physics I Laboratory	1
SFT 340	Indust Fire Prevent	3
SFT 375	Construction Safety I	3
Core II Humanities (WI)		3
	Credit Hours	**16**
Second Semester		
PHY 203	College Physics II	3
PHY 204	General Physics 2 Laboratory	1
SFT 373	Prin Ergonomics & Hum Factors	3
SFT 373L	Prin of Ergonomics Lab	1
ENG 354	Scientific & Tech Writing	3
Select one of the following Statistics courses:		3
STA 225	Introductory Statistics (CT)	
PSY 223	Elem Behavioral Stat	
MGT 218	Business Quantitative Methods	
Free Elective		1
	Credit Hours	**15**
Third Year		
First Semester		
CHM 211	Principles of Chemistry I	3
CHM 217	Principles of Chem Lab I	2
HS 201	Intro Appl Anat & Physiol	3
SFT 460	Safety Training Methods	3
SFT 378	Safety Eval & Measurement	3
Writing Intensive		3
	Credit Hours	**17**
Second Semester		
CHM 212	Principles Chemistry II	3
CHM 218	Principles of Chem Lab II	2
SFT 498	Envir Safety & Health Legis	3

SFT 465	Incident Investigation and PSM	3
SFT Elective (II)		3
	Credit Hours	**14**
Fourth Year		
First Semester		
SFT 454	Industrial Hygiene	3
SFT 454L	Industrial Hygiene Lab	2
MGT 320 or ACC 215	Principles of Management or Accounting Principles (CT)	3
SFT Elective (II)		3
SFT Elective (III)		3
	Credit Hours	**14**
Second Semester		
SFT 499	Dev & Mgt of Occup Safety Prog	3
SFT 490	Safety Internship	3
SFT Elective (IV)		3
Free Elective		3
	Credit Hours	**12**
	Total Credit Hours	**120-124**

Occupational Safety and Health, Minor

(includes CHM and PHY prerequisites)

Contact: Prof. James McIntosh, Chair
mcintoshj@marshall.edu

A minor in Occupational Safety and Health may be earned by completing the courses taken toward the minor with a minimum average GPA of 2.0.

Code	Title	Credit Hours
SFT 235	Intro to Occup Safety (CT)	3
SFT 372	Safety & Industrial Tech	3
SFT 373	Prin Ergonomics & Hum Factors	3
SFT 373L	Prin of Ergonomics Lab	1
SFT 499	Dev & Mgt of Occup Safety Prog	3
One additional SFT course		3
Total Credit Hours		**16**

College of Health Professions

Contacts: Dr. Michael Prewitt, Dean; Dr. Gary McIlvain, Associate Dean
Website: http://www.marshall.edu/cohp (http://www.marshall.edu/cohp/)

cohp@marshall.edu

The College of Health Professions was formed in 1998 when the academic units of Nursing, Communication Disorders, Clinical Laboratory Sciences, and Dietetics united to better serve the health needs of the region. In July 2006 the college expanded to include the Department of Social Work. In 2010 we welcomed the School of Kinesiology to the COHP. The undergraduate public health program is the only undergraduate public health degree offered in West Virginia. The Health Sciences degree will open doors for students seeking graduate education as well as those interested in integrating health sciences into other fields. We are proud to offer the only Doctor of Physical Therapy program in southern West Virginia. The School of Physical Therapy recently received candidate status in their accrediting process. The college offers a variety of health career opportunities at the associate, baccalaureate, and master's degree level.

Mission

Consistent with the mission of Marshall University, the College of Health Professions (COHP) is committed to offering quality undergraduate and graduate nursing and health professions education. The focus of the College of Health Professions is upon being interactive with the community, including rural and underserved areas, and responding to contemporary and future needs of society, nursing, and the health professions.

To accomplish this mission, the College of Health Professions:

- ensures the integrity of the programs through maintenance of rigorous professional education standards and through the high expectation of student learning and performance;
- encourages involvement of faculty in service to society and the profession;
- supports the engagement of faculty in research and scholarly activities;
- provides an environment that is sensitive to a culturally, racially, and ethnically diverse student body, faculty, and staff; and
- maintains an environment that provides for academic freedom and shared governance.

Cooperative Programs

The Marshall University Employee Dependent Undergraduate Tuition Assistance Program cannot be used to cover the tuition and fees of the St. Mary's/Marshall University cooperative programs, which include medical imaging, nursing, and respiratory care. These programs are classified as third-party waiver programs, which are exempted from the Employee Dependent Tuition Assistance Program.

Departments

- Clinical Laboratory Sciences (p. 496)
- Communication Disorders (p. 503)
- Dietetics (p. 508)
- Health Sciences (p. 513)
- Kinesiology (p. 515)
- Medical Imaging (p. 534)
- Nursing - Associate Degree (p. 544)
- Nursing - Bachelor's Degrees (p. 546)
- Pre-Health, Major (p. 556)
- Respiratory Care (p. 556)
- Social Work (p. 562)

Degree Requirements

Graduation Requirements for COHP Majors

The number of hours required for graduation varies among the COHP majors. While 120 is the minimum required by the university, several COHP major require additional hours.

General Education Core Requirements

The baccalaureate degree programs in the COHP require students to meet the University general education core requirements. The general requirements are listed below. In some programs students must take specific courses to meet core requirements. The most up to date information on the core, including lists of courses that fulfill the requirements is located at www.marshall.edu/gened (http://www.marshall.edu/gened/).

Code	Title	Credit Hours
Core I		
FYS 100	First Yr Sem Critical Thinking (should be taken during the freshman year)	3
Critical Thinking (CT)		6
Core II		
ENG 101 & ENG 201	Beginning Composition and Advanced Composition	6
or ENG 201H	English Comp Honors	
Core II Communication Studies		3
Core II Fine Arts		3
Core II Humanities		3
Core II Math		3
Core II Physical/Natural Science		4
Core II Social Sciences		3
Total Credit Hours		**34**

Core I

First Year Seminar: 3 hours

- Students who transfer to Marshall University as sophomores [30 or more credit hours] are exempt from taking FYS 100 First Yr Sem Critical Thinking.

Critical Thinking (CT): 6 hours

- Students must choose from the Critical Thinking courses listed on the general education web page (marshall.edu/gened (http://www.marshall.edu/gened/)).
- Students who transfer to Marshall University as sophomores [30 or more credit hours] are only required to take one critical thinking course.
- Students may wish to select a Critical Thinking course that will double-count as a Humanities (courses in bold).

Core II

Composition: ENG 101 Beginning Composition and ENG 201 Advanced Composition (or ENG 201H English Comp Honors) 6 hours

Communication Studies: 3 hours

- Students must choose from the Communication Studies courses listed on the general education web page (www.marshall.edu/gened (http://www.marshall.edu/gened/))

Fine Arts: 3 hours

- Students must choose from the Fine Arts courses listed on the general education web page (www.marshall.edu/gened (http://www.marshall.edu/gened/))

Humanities: 3 hours

- Students must choose from the Humanities courses listed on the general education web page (www.marshall.edu/gened (http://www.marshall.edu/gened/))

Math: 3 hours

- Students must choose from the Mathematics courses listed on the general education web page (www.marshall.edu/gened (http://www.marshall.edu/gened/))

Physical/Natural Science: 4 hours

- Students must choose from the Physical/Natural Science courses listed on the general education web page (www.marshall.edu/gened (http://www.marshall.edu/gened/))

Social Science 3 hours

- Students must choose from the Social Science courses listed on the general education web page (www.marshall.edu/gened (http://www.marshall.edu/gened/))

Additional University Requirements

Writing Intensive: Students must select 6 hours of courses designated as Writing Intensive.

Multicultural/International: Students must select 3 hours of courses designated as Multicultural or International.

Students must complete the hours required to meet the program requirements of their degree program. The minimum hours required for graduation is 120, although most College of Health Professions majors require more than the minimum. The number of free elective hours a student will need to complete depends on the major, the number of hours needed take to fulfill the math requirement (3 or 5 hours), and double-counting general education requirements.

The number of hours required to graduate varies. To determine the number of free electives needed to reach the total hours to graduate from a specific major:

- Add up all the hours required on your curriculum sheet and subtract that number from 120. The total will be the number of free electives you need to complete. Free electives are any course that is 100-level or above. Please note that developmental courses (095, 096, 097, 098, 099, etc.) do not count toward completion of free electives or the 120 hours for graduation
- If you earn a *"C"* or better in a course and repeat it, that is considered a Repeat Passing Grade. If you earn a *"D"* in a course that was taken after your first 60 attempted hours and repeat it that is also considered a Repeat Passing Grade. Repeat Passing Grade hours cannot count toward the 120 hours needed for

graduation and must be manually subtracted from the overall hours completed toward graduation.

Double-Counting

Any course that meets more than one graduation requirement (excluding free electives) can be double counted, if applicable. For example, CL 210 Love/War Ancient World (CT) double-counts as Critical Thinking (CT) and Humanities. Because you must have a minimum of 120 credit hours to receive a degree, double-counting will increase the number of free electives you will need. Therefore, if you take a class that meets two graduation requirements, you will then take additional free elective hours in place of the second course requirement. You may only double-count in the general education area of your degree. You cannot double count one course as two major requirements.

Clinical Laboratory Sciences

Contacts: Dr. Jennifer D. Perry, Chair
Website: https://www.marshall.edu/clinical-laboratory-science/

The Clinical Laboratory Sciences (CLS) Department offers the Associate in Applied Science in Medical Laboratory Technology (AAS-MLT or MLT) and the Bachelor of Science in Medical Laboratory Science (BS-MLS). The AAS-MLT and BS-MLS form an integrated ladder curriculum following a "2+2" model. Students may choose to earn the associate degree only or to continue and also earn a bachelor's degree. The BS-MLS program is offered through online format only, and is for students who have already completed the AAS-MLT degree. All 300- and 400-level courses are offered online for the BS-MLS program.

General information regarding CLS Degree Programs

Several courses in these curricula require a minimum ACT score or course prerequisites. Availability of hospital training sites varies, and placement is based on overall GPA of admitted students. Transportation and housing for hospital portions of these programs are the responsibility of the student. Medical insurance coverage is required for hospital rotations, and is the responsibility of the student. Costs of physical examinations, tuberculosis testing, and immunizations are borne by the student. Students will be required to either receive the hepatitis B vaccine series or sign a waiver form refusing the vaccine. Additional documentation may be required by individual clinical agencies or by the College of Health Professions. The College of Health Professions and the Clinical Laboratory Sciences Department provide academic advisement to students seeking admission to a CLS program.

Mission Statement

The mission of the Clinical Laboratory Sciences Department is to provide competent laboratory professionals who are qualified to staff health care facilities and, thus, furnish the highest quality of patient care to our servicing area, including the Huntington tri-state area and other underserved areas of West Virginia, Ohio and Kentucky. These clinical laboratory professionals provide the highest quality laboratory test results that provide 70-80% of the objective date needed for physicians to make accurate patient diagnosis. The Clinical Laboratory Sciences Department provides continuing clinical medical education for the region as required by professional organizations and health care facilities. In addition, it is an ongoing mission of the department to implement innovative programs to meet the dynamic needs of the medical community.

Accreditation

The MLT and BS-MLS programs are fully accredited by the National Accrediting Agency for Clinical Laboratory Sciences (NAACLS, 5600 N. River Road, Suite 720, Rosemont, IL 60018-5119, Telephone 773-714-8880). Students who complete CLS programs through Marshall University will be eligible for the national certification examination through ASCP.

Programs

- Medical Laboratory Science, B.S. (p. 498)
- Medical Laboratory Technician, A.A.S. (p. 501)

Courses

- General Education Course

CLS 105 Medical-Lab Terminology (CT) **3 Credit hours**
An introductory course for students to develop critical thinking skills and apply them to medical and laboratory terminology concepts and other health care topics related to laboratory medicine. An introductory course for students to develop critical thinking skills and apply them to medical and laboratory terminology concepts and other health care topics related to laboratory medicine.
Attributes: Critical Thinking
Grade Mode: Normal Grading Mode

CLS 200 Clinical Biochemistry **4 Credit hours**
Theory and practice of clinical chemistry testing of serum, plasma, urine and body fluids in disease diagnosis.
Grade Mode: Normal Grading Mode

CLS 210 Clinical Immunohematology **4 Credit hours**
Theory of immune mechanisms in the body with a focus on serological testing for safe transfusion of blood components and applications for diagnostic immunologic assays.
Pre-req: CLS 230 with a minimum grade of C and CLS 200 with a minimum grade of C.
Grade Mode: Normal Grading Mode

CLS 220 Clinical Microbiology **4 Credit hours**
A study of bacterial, fungal, and helminth related diseases, including diagnostic approach and techniques. 3 lec-2 lab. A study of bacterial, fungal, and helminth related diseases, including diagnostic approach and techniques. 3 lec-2 lab.
Pre-req: CLS 230 with a minimum grade of C and CLS 200 with a minimum grade of C.
Grade Mode: Normal Grading Mode

CLS 230 Clinical Hematology **4 Credit hours**
Theory and clinical laboratory procedures used in the diagnosis of various white blood cell, red blood cell, and coagulation disorder. Course includes an introduction to specimen collection.
Grade Mode: Normal Grading Mode

CLS 255 Clinical Lab Problems **3 Credit hours**
Clinical laboratory problem-solving and comprehensive technical review course designed to help the student integrate knowledge and learn professional skills as a last step before beginning clinical practicum.
Pre-req: CLS 230 with a minimum grade of C and CLS 200 with a minimum grade of C.
Grade Mode: Normal Grading Mode

CLS 270 Clin Practicum Hematology **3 Credit hours**
Total of 4 weeks (160 hours) of hospital-based supervised practice, including phlebotomy, complete blood counts, body fluid analysis, clinical microscopy, and urinalysis. One of four courses, CLS 270-273, taken concurrently.
Pre-req: CLS 255 with a minimum grade of C.
Co-req: CLS 271, CLS 272, CLS 273
Grade Mode: Normal Grading Mode

CLS 271 Clin Practicum Chemistry **3 Credit hours**
Total of 4 weeks (160) hours of hospital-based supervised practice performing diagnostic tests on body fluids using chemical methods. One of four courses, CLS 270-273, taken concurrently.
Pre-req: CLS 255 with a minimum grade of C.
Co-req: CLS 270, CLS 272, CLS 273
Grade Mode: Normal Grading Mode

CLS 272 Clin Pract Immunohematol **3 Credit hours**
Total of 3 weeks (120) hours of hospital-based supervised practice performing blood typing, antibody screening and identification, and conduct of pre-transfusion tests. One of our courses, CLS 270-273, taken concurrently. Total of 3 weeks (120) hours of hospital-based supervised practice performing blood typing, antibody screening and identification, and conduct of pre-transfusion tests. One of our courses, CLS 270-273, taken concurrently.
Pre-req: CLS 255 with a minimum grade of C.
Co-req: CLS 270, CLS 271, CLS 273
Grade Mode: Normal Grading Mode

CLS 273 Clin Pract Microbiology **3 Credit hours**
Total of 4 weeks (160 hours) of hospital-based supervised practice performing isolation, identification, and susceptibility testing of bacteria, fungi, and parasites. One of four courses, CLS 270-273, taken concurrently. Total of 4 weeks (160 hours) of hospital-based supervised practice performing isolation, identification, and susceptibility testing of bacteria, fungi, and parasites. One of four courses, CLS 270-273, taken concurrently.
Pre-req: CLS 255 with a minimum grade of C.
Co-req: CLS 270, CLS 271, CLS 272
Grade Mode: Normal Grading Mode

CLS 285 Independent Study **1-4 Credit hours**
Attributes: No Textbook Required
Grade Mode: Normal Grading Mode

CLS 286 Independent Study **1-4 Credit hours**
Grade Mode: Normal Grading Mode

CLS 287 Independent Study **1-4 Credit hours**
Grade Mode: Normal Grading Mode

CLS 288 Independent Study **1-4 Credit hours**
Grade Mode: Normal Grading Mode

CLS 310 Clin Immun & Mol Diag **3 Credit hours**
Theory and practice of basic human immunology and genetics as applied to clinical laboratory diagnostic and treatment procedures. Emphasizes use of immunoglobulin and DNA as diagnostic tools. Theory and practice of basic human immunology and genetics as applied to clinical laboratory diagnostic and treatment procedures. Emphasizes use of immunoglobulin and DNA as diagnostic tools.
Grade Mode: Normal Grading Mode

CLS 320 Advanced Topics in CLS **3 Credit hours**
Study of advanced topics for MLS graduates; includes careers in CLS, public health, epidemiology and bioterrorism as related to CLS, interprofessional collaboration, professional societies, licensure and regulation, and patient safety.
Grade Mode: Normal Grading Mode

CLS 400 Adv Clinical Chemistry **2 Credit hours**
Advanced theory, practice, problem solving, and critical thinking in the laboratory specialty of clinical chemistry. Advanced theory, practice, problem solving, and critical thinking in the laboratory specialty of clinical chemistry.
Pre-req: CLS 200 with a minimum grade of C.
Grade Mode: Normal Grading Mode

CLS 410 Adv Clin Immunohematology **2 Credit hours**
Advanced theory and resolution of complex serological problems related to blood component therapy and transfusion.
Pre-req: CLS 272 with a minimum grade of C.
Grade Mode: Normal Grading Mode

CLS 420 Adv Clinical Microbiology **2 Credit hours**
Advanced theory, practice, problem solving, and critical thinking in the laboratory specialty of diagnostic microbiology.
Grade Mode: Normal Grading Mode

CLS 430 Adv Clinical Hematology **3 Credit hours**
Advanced theory, problem solving, and clinical laboratory procedures used in the diagnosis and treatment of various white blood cell, red blood cell, and coagulation disorders.
Pre-req: CLS 230 with a minimum grade of C.
Grade Mode: Normal Grading Mode

CLS 460 Clinical Lab Mgt and Educ **3 Credit hours**
Laboratory personnel and resource management, cost control, cost analysis, lab marketing, accreditation and CLS education practices. Laboratory personnel and resource management, cost control, cost analysis, lab marketing, accreditation and CLS education practices.
Pre-req: MGT 320 with a minimum grade of C or ECN 250 with a minimum grade of C and CLS 271 with a minimum grade of C.
Grade Mode: Normal Grading Mode

CLS 464 Lab Instrumen Inform Sys **3 Credit hours**
Principles of laboratory instrumentation operation, maintenance, and troubleshooting. Concepts in special topics such as Flow Cytometry, Laboratory Information Systems (LIS), and Schematics also discussed.
Grade Mode: Normal Grading Mode

CLS 466 Diagnostic Physiology **3 Credit hours**
Pathologic aspects of diseases will be discussed using case studies, diagnostic problem solving, and student projects.
Grade Mode: Normal Grading Mode

CLS 468 Clinical Lab Research **3 Credit hours**
Directed independent research in the clinical site on a subject/topic of interest for clinical laboratory practice; formal writing of a research proposal and final project report required.
Attributes: Capstone Course, No Textbook Required
Grade Mode: Normal Grading Mode

CLS 472 Adv CLS Clinical Practicum I **3 Credit hours**
Advanced problem solving and critical thinking through case study evaluation in all areas of the clinical laboratory.
Grade Mode: Normal Grading Mode

CLS 473 Adv CLS Clinical Practicum II **3 Credit hours**
Advanced problem solving and critical thinking in all areas of the clinical laboratory through intensive review of theory and national certification examination review materials for the Medical Laboratory Scientist.
Grade Mode: Normal Grading Mode

CLS 480 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

CLS 481 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

CLS 482 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

CLS 483 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

CLS 485 Independent Study **1-4 Credit hours**
Attributes: No Textbook Required
Grade Mode: Normal Grading Mode

CLS 486 Independent Study **1-4 Credit hours**
Grade Mode: Normal Grading Mode

CLS 487 Independent Study **1-4 Credit hours**
Grade Mode: Normal Grading Mode

CLS 488 Independent Study **1-4 Credit hours**
Grade Mode: Normal Grading Mode

CLS 499 Seminar in Lab Medicine **2 Credit hours**
Review, summary and critique of peer-reviewed research publications in all areas of clinical laboratory science.
Grade Mode: Normal Grading Mode

Faculty

Professor
Perry

Associate Professor
Meadows

Medical Laboratory Science, B.S.

Career Description and Opportunities

Medical laboratory scientists perform a variety of specialized tests in the clinical laboratory that provide information used by the physician to determine the extent and cause of disease. The tests performed by or supervised by the medical laboratory scientist are completed in such areas as hematology, blood banking, serology, immunology, clinical chemistry, bacteriology, and parasitology. The graduate medical laboratory scientist is prepared with the knowledge and abilities needed for certification by nationally recognized professional agencies. Certified medical laboratory scientists are accorded the status of professionals in the medical team. They often have responsibilities for supervision of laboratory sections, exercise independent judgement, and evaluate the work of others.

Most medical laboratory scientists are employed in hospital laboratories, while others find employment in physician's offices, the armed forces, and state and federal health agencies. CLS BS-MLS graduates have gone on to become physicians, dentists, physical therapists, health care computer specialists, hospital administrators, pharmaceutical salespersons, college professors, biomedical researchers, attorneys, and scientific device reviewers. Upon successful completion of the Bachelor of Science degree in Medical Laboratory Science, the student is eligible for the certification examination offered by the American Society of Clinical Pathologists (ASCP).

Curriculum Overview

The MU Medical Laboratory Science program is offered through online course delivery and follows a "2+2 ladder" model. The first two years include the MLT associate degree curriculum. Year three involves completion of advanced science and other university academic requirements, and the fourth year involves one semester of didactic courses followed by advanced clinical practicum courses. A student who has completed required general studies and prerequisite courses could progress through the CLS sequence from MLT to MLS programs consecutively (see admission, below).

Students transferring from other NAACLS accredited programs must complete equivalent prerequisite courses to those listed in the MU B.S. in Medical Laboratory Science program in order to obtain a B.S. from Marshall University, which includes meeting Core Curriculum standards.

In addition, MLT courses from other NAACLS accredited programs will be evaluated and course substitution credit will be recorded for 100 and 200 level CLS courses where appropriate by the MU CLS department chair/program director. Under special circumstances where an individual has graduated from an MLT program greater than five years previous, and has not worked as an MLT, proficiency exams may be required in order for substitution credit to be granted for 100 and 200 level CLS courses.

The CLS 300- and 400-level courses of the Bachelor of Science in Medical Laboratory Science Program are offered through online course delivery. All general prerequisite courses in the junior year are also offered online through Marshall University if preferred. All CLS-designated courses must be taken from Marshall University; no transfer courses will be accepted for these.

Advanced Clinical Practicum/ Applied Learning Experiences

There is not a full clinical rotation for the online B.S. in MLS program at Marshall University; rather, students complete required clinical tasks in courses taken in the final semester of the program. Most students in the program are working either full or part-time and can manage the required tasks while working. All students will complete requirements of the CLS 464 Lab Instrumen Inform Sys and CLS 468 Clinical Lab Research Senior Research courses in the clinical practicum setting

during the final semester of the B.S. in MLS program. All students will also be required to complete an on-campus, one day hands-on workshop in Molecular Diagnostics as part of their Advanced Clinical Practicum experience, or provide documentation of hands-on clinical experience in this area in a clinical hospital laboratory during the final semester in the program.

It is the sole responsibility of all admitted MLS students to secure their own clinical site placement for required clinical tasks in the final semester of the program. A student will be required upon admission to the B.S. in MLS program to initiate the process of clinical site placement and/or the clinical affiliation process with a clinical laboratory in a hospital for advanced clinical experiences and obtain the necessary signed clinical affiliation documentation by mid-term of the semester preceding the student's anticipated advanced clinical practicum - signed clinical affiliations are an NAACLS accreditation requirement. All clinical affiliations must be approved by the Program Director. Failure of the student to complete these requirements would make the student ineligible for clinical site placement and would delay, or prevent, graduation from the BS in MLS program.

Admission

The application period for the online program is continual, however applications are reviewed and admission is granted once per semester, normally in October and March each year in preparation for advising for student registration. To be considered for admission into the Marshall University Online Bachelor of Science in Medical Laboratory Science program, applicants must meet the following criteria:

1. Successful completion of an associate degree in Medical Laboratory Technology from a NAACLS-accredited MLT/CLT program. Students applying from NAACLS-accredited programs other than Marshall University must either submit a letter of satisfactory completion from the MLT program director, or submit documentation of MLT/CLT national certification through NCA or ASCP.
2. Minimum cumulative GPA of 2.0 prior to admission.
3. Candidates from a NAACLS accredited MLT program other than Marshall University: must submit two letters of reference prior to admission; the letter of satisfactory completion from the MLT program director stated above may substitute for one of the letters. Candidates from other NAACLS accredited programs must also submit an official transcript documenting coursework for the MLT program. Candidates from other NAACLS accredited MLT/CLT programs must submit a letter of application along with the references above.
4. Candidates from the Marshall University MLT program: Because students from other institutions are accepted into the online BSMLS program each year, MU MLT students must submit notification, either via email or letter in the last year of their MLT program of their desire to continue on into the BS in Medical Laboratory Science program; failure to do so could jeopardize securing a placement slot in MLS-level courses.

Admission will be granted to current Marshall University BS-MLS students who have had continuous enrollment each semester in the program coursework and who have provided written notification of their desire to continue during the final year of their MLT program.

- General Education Course

- Milestone course: a key success marker for your major. See your advisor to discuss the importance of this course in your plan of study.

Major

The Core Curriculum is designed to foster critical thinking skills and introduce students to basic domains of thinking that transcend disciplines. The Core applies to all majors. Information on specific classes in the Core can be found at https://www.marshall.edu/gened/.

Code	Title	Credit Hours
Core Curriculum		
Core 1: Critical Thinking		
FYS 100	First Yr Sem Critical Thinking	3
CLS 105	Medical-Lab Terminology (CT)	3
SOC 200	Introductory Sociology (CT)	3
Core 2		
ENG 101	Beginning Composition	3
ENG 201	Advanced Composition	3
CMM 103	Fund Speech-Communication	3
MTH 130	College Algebra	3
BSC 228	Human Physiology	3
BSC 228L	Human Physiology Lab	1
Core II Humanities (WI)		3
SOC 200	Introductory Sociology (CT) (MC, WI)	3
Core II Fine Arts		3
Additional University Requirements		
Writing Intensive (Core II Humanities)		3
Writing Intensive (SOC 200 WI)		3
SOC 200	Introductory Sociology (CT) (Multicultural or International)	3
CLS 468	Clinical Lab Research (Capstone)	3
Major-Specific		
CHM 211	Principles of Chemistry I	3
CHM 217	Principles of Chem Lab I	2
CLS 105	Medical-Lab Terminology (CT)	3
CHM 212	Principles Chemistry II	3
CHM 218	Principles of Chem Lab II	2
BSC 227	Human Anatomy	3
BSC 227L	Human Anatomy Lab	1
CLS 200	Clinical Biochemistry	4
CLS 230	Clinical Hematology	4
CLS 210	Clinical Immunohematology	4
CLS 220	Clinical Microbiology	4
CLS 255	Clinical Lab Problems	3
CLS 270	Clin Practicum Hematology (15 Week Hospital Based Practicum)	3
CLS 271	Clin Practicum Chemistry (15 Week Hospital Based Practicum)	3
CLS 272	Clin Pract Immunohematol (15 Week Hospital Based Practicum)	3
CLS 273	Clin Pract Microbiology (15 Week Hospital Based Practicum)	3

CHM 327	Intro Organic Chemistry	3
ECN 200	Survey of Economics	3
or ECN 250	Principles Microeconomics	
STA 225	Introductory Statistics (CT)	3
CLS 310	Clin Immun & Mol Diag (WI) (General Education Course)	3
CLS 320	Advanced Topics in CLS	3
CLS 400	Adv Clinical Chemistry	2
CLS 410	Adv Clin Immunohematology	2
CLS 420	Adv Clinical Microbiology	2
CLS 430	Adv Clinical Hematology	3
CLS 460	Clinical Lab Mgt and Educ	3
CLS 464	Lab Instrumen Inform Sys	3
CLS 466	Diagnostic Physiology	3
CLS 472	Adv CLS Clinical Practicum I	3
CLS 473	Adv CLS Clinical Practicum II	3
CLS 468	Clinical Lab Research (Capstone)	3
CLS 499	Seminar in Lab Medicine	2

Major Information

- Students are required to know and track their degree requirements for graduation or for entrance to a professional school.
- Course offerings and course attributes are subject to change semesters. Please consult each semester's schedule of courses for availability and attributes.
- The MLT and BS-MLS programs are fully accredited by the National Accrediting Agency for Clinical Laboratory Sciences. Students who complete CLS programs through Marshall University will be eligible for national certification examinations.
- Medical Laboratory Technology Students complete the associate degree, graduate then progress into the Bachelor of Medical Laboratory Science.
- MLS online students from other institutions must have completed an AAS in MLT from a NAACLS accredited program and will be required to fulfill the core curriculum requirements through a combination of transfer credits and MU courses; each student will be evaluated on an individual basis.
- 15-week hospital-based clinical practicum sequence Summer or Fall prior to beginning online MLS classes.

- General Education Course

- Milestone course: a key success marker for your major. See your advisor to discuss the importance of this course in your plan of study.

Four Year Plan

Medical laboratory scientists perform a variety of specialized tests in the clinical laboratory that provide information used by the physician to determine the extent and cause of disease. The tests performed by or supervised by the medical technologist are completed in such areas as hematology, blood banking, serology, immunology, clinical chemistry, bacteriology, and parasitology. The graduate medical technologist is prepared with the knowledge and abilities needed for certification by nationally recognized professional agencies. Certified medical laboratory scientists are accorded the status of professionals in the medical team. They often supervise laboratory sections, exercise independent judgement, and evaluate the work of others.

Course	Title	Credit Hours
First Year		
First Semester		
CHM 211	Principles of Chemistry I	3
CHM 217	Principles of Chem Lab I	2
ENG 101	Beginning Composition	3
FYS 100	First Yr Sem Critical Thinking	3
CLS 105	Medical-Lab Terminology (CT)	3
UNI 100	Freshman First Class	1
	Credit Hours	**15**
Second Semester		
CHM 212	Principles Chemistry II	3
CHM 218	Principles of Chem Lab II	2
CMM 103	Fund Speech-Communication	3
SOC 200	Introductory Sociology (CT) (MC, WI)	3
MTH 130	College Algebra	3
	Credit Hours	**14**
Second Year		
First Semester		
BSC 227	Human Anatomy	3
BSC 227L	Human Anatomy Lab	1
CLS 200	Clinical Biochemistry	4
CLS 230	Clinical Hematology	4
ENG 201	Advanced Composition	3
	Credit Hours	**15**
Second Semester		
BSC 228	Human Physiology	3
BSC 228L	Human Physiology Lab	1
CLS 210	Clinical Immunohematology	4
CLS 220	Clinical Microbiology	4
CLS 255	Clinical Lab Problems	3
	Credit Hours	**15**
Third Semester		
Summer Term		
CLS 270	Clin Practicum Hematology	3
CLS 271	Clin Practicum Chemistry	3
CLS 272	Clin Pract Immunohematol	3
CLS 273	Clin Pract Microbiology	3
	Credit Hours	**12**
Third Year		
First Semester		
CHM 327	Intro Organic Chemistry	3
CLS 320	Advanced Topics in CLS	3
ECN 200 or ECN 250	Survey of Economics or Principles Microeconomics	3
Core II Humanities (WI)		3
CLS 270	Clin Practicum Hematology (if not taken during summer)	
CLS 271	Clin Practicum Chemistry (if not taken during summer)	

CLS 272	Clin Pract Immunohematol (if not taken during summer)	
CLS 273	Clin Pract Microbiology (if not taken during summer)	
	Credit Hours	**12**
Second Semester		
CLS 310	Clin Immun & Mol Diag	3
STA 225	Introductory Statistics (CT)	3
Core II Fine Arts		3
CLS 466	Diagnostic Physiology	3
	Credit Hours	**12**
Fourth Year		
First Semester		
CLS 400	Adv Clinical Chemistry	2
CLS 410	Adv Clin Immunohematology	2
CLS 420	Adv Clinical Microbiology	2
CLS 430	Adv Clinical Hematology	3
CLS 460	Clinical Lab Mgt and Educ	3
CLS 499	Seminar in Lab Medicine	2
	Credit Hours	**14**
Second Semester		
CLS 464	Lab Instrumen Inform Sys	3
CLS 472	Adv CLS Clinical Practicum I	3
CLS 473	Adv CLS Clinical Practicum II	3
CLS 468	Clinical Lab Research (Capstone)	3
	Credit Hours	**12**
	Total Credit Hours	**121**

Part Time Enrollment Plan

Full-time enrollment at Marshall University requires that students take a minimum of twelve credit hours. Prerequisite courses, other than CLS courses, that are listed in Year Three in the curriculum may be taken in any sequence and in any combination. Part-time enrollment in CLS courses at the BS-MLS level is permitted for working MLTs; however students must take the following courses together and in this sequence:

Course	Title	Credit Hours
First Year		
First Semester		
CLS 460	Clinical Lab Mgt and Educ	3
CLS 499	Seminar in Lab Medicine	2
	Credit Hours	**5**
Second Semester		
CLS 310	Clin Immun & Mol Diag	3
CLS 466	Diagnostic Physiology	3
	Credit Hours	**6**
Second Year		
First Semester		
CLS 400	Adv Clinical Chemistry	2
CLS 410	Adv Clin Immunohematology	2
CLS 420	Adv Clinical Microbiology	2
CLS 430	Adv Clinical Hematology	3
	Credit Hours	**9**
Second Semester		
CLS 464	Lab Instrumen Inform Sys [1]	3
CLS 468	Clinical Lab Research (Capstone) [1]	3
CLS 472	Adv CLS Clinical Practicum I [1]	3
CLS 473	Adv CLS Clinical Practicum II [1]	3
	Credit Hours	**12**
	Total Credit Hours	**32**

[1] CLS courses in this final Spring Semester can only be taken immediately preceding anticipated commencement in May.

Once a student has been accepted into the BS-MLS online program, he/she will work together with the chair/program director to outline an acceptable curriculum completion plan.

Medical Laboratory Technician, A.A.S.

Students completing the MU medical laboratory technician (AAS-MLT) curriculum can earn the Associate in Applied Science Degree. The curriculum is designed so that a student may complete the technical portion of the curriculum in three semesters: two semesters of on-campus instruction, and one semester of in-hospital, 15-week clinical practicum. The clinical practicum semester may be either in summer or fall, depending on availability of clinical sites and completion of all required coursework. Students declare their major as A.A.S. in MLT upon admission to the university, then seek admission into Year Two CLS courses if they meet required criteria.

Career Description and Opportunities

Certified medical laboratory technicians are prepared to perform approximately 90% of the routine diagnostic work in a clinical laboratory. They typically work under the supervision of a medical laboratory scientist. They collect blood samples and do a wide variety of blood and urine tests using microscopes, spectrophotometers, electronic counters, and other laboratory instruments. They also perform crossmatches for blood transfusion, culture pathogenic bacteria, and perform blood clotting tests. Besides working in hospital laboratories, medical laboratory technicians work in doctors' offices, clinics, and in industry. Certified clinical laboratory technicians are in great demand. Completion of a NAACLS-accredited MLT program is required for admission to the bachelor's degree in medical laboratory science at Marshall University. Upon completion of the MLT curriculum, the student is eligible to take a certification examination offered by the American Society of Clinical Pathologists (ASCP).

Admission and Progression

Entry to the MLT program involves completion of academic prerequisites with acceptable grades, application to the Clinical Laboratory Sciences Department, and competitive selection by an admissions committee. An applicant for the MLT program should expect to have earned an overall Grade Point Average (GPA) of 2.5. Students who fall into the category of having to take CHM 111 Foundations of Chemistry as a prerequisite to CHM 211 Principles

of Chemistry I due to ACT scores must have successfully completed CHM 111 Foundations of Chemistry with a *C* or greater prior to being accepted into the MLT program. Students must be able to complete all required coursework, including clinical rotations, for the MLT program within 16 months of the August admission date of the program in order to be admitted to the program.

The number of available class spaces is determined annually by the MLT program director, based upon anticipated instructional resources both on campus and in affiliated hospital laboratories. The class sizes range between 12 and 18 per year. Admission of qualified applicants is not guaranteed and is dependent on availability of resources; qualified applicants that are not accepted will be placed on a waiting list for admission into the program and notified in writing of their status.

Students apply for admission during their freshman year by completing and submitting a transcript review form, two letters of reference, and a letter of application to the MLT Program Director between March 1 and May 31 for admission to the following semester. Late applications will be considered as class size permits. Transcript review forms and example letters are available at the Clinical Laboratory Sciences Department and on the department website (www.marshall.edu/clinical-lab-science (http://www.marshall.edu/clinical-lab-science/)).

The MLT program admissions committee reviews letters of application, college-level coursework, and letters of reference. Qualified applicants are selected primarily by Grade Point Average on courses in the CLS curriculum. Applicants who expect to complete all admission requirements before fall classes begin may be admitted conditionally. The committee selects students to fill available class spaces, then develops a ranked waiting list, if applicable. Letters are mailed to all applicants by June 15 notifying them of the admission committee decision.

Accepted students who are not properly registered or who are absent during the first week of regular classes without prior approval of the CLS program director will lose their space to a wait-listed applicant.

- General Education Course

- Milestone course: a key success marker for your major. See your advisor to discuss the importance of this course in your plan of study.

Major

Progression through the MLT program is contingent upon satisfactory academic performance. Once admitted, MLT students are required to remain continuously enrolled in such a way as to complete the CLS course sequence with their class.

Code	Title	Credit Hours
CLS 230	Clinical Hematology	4
CLS 210	Clinical Immunohematology	4
CLS 220	Clinical Microbiology	4
CLS 255	Clinical Lab Problems	3
CLS 270	Clin Practicum Hematology	3
CLS 271	Clin Practicum Chemistry	3
CLS 272	Clin Pract Immunohematol	3
CLS 273	Clin Pract Microbiology	3

If a student should not successfully progress with his or her class, he or she will be dropped from the MLT program and will be notified of that status by letter. Decisions regarding readmitting students to pre-clinical CLS courses will be made by the admissions committee subject to space availability. No student is guaranteed readmission. Students seeking readmission reapply as described above. Readmitted students may be required to repeat one or more CLS courses or undertake directed independent study.

Once a student is admitted to the MLT program, in addition to the previous stated policies, the following apply:

1. All required coursework the Associate in MLT must be completed with a minimum grade of *C* or higher. Students who earn a grade of less than a *C* in required coursework must repeat the course and earn a *C* or greater.
2. Students must earn a minimum of *C* in all CLS courses in order to progress to the following semester's CLS courses.
3. Students must have completed all required coursework in the A.A.S. MLT curriculum with a minimum of *C* in order to be eligible for MLT clinical rotations

Code	Title	Credit Hours
CLS 270	Clin Practicum Hematology	3
CLS 271	Clin Practicum Chemistry	3
CLS 272	Clin Pract Immunohematol	3
CLS 273	Clin Pract Microbiology	3

Therefore, students who do not make a *C* in **all** required coursework in the MLT curriculum will not be permitted to attend clinical rotations; this means that if a student makes below a *C* during the spring term in any required course and has already begun summer clinical rotations before this grade is known, the student will be removed from rotation courses, and will be expected to retake those course and obtain a *C* or greater before being permitted to re-enroll in clinical rotations. Clinical rotations are offered in the summer and fall terms only; therefore, if a student fails to complete all required coursework in the summer with a *C* or greater prior to the fall rotation, then that student must participate in directed independent study for all CLS courses, as well as completed required coursework with a *C* or greater, and wait until the following summer to attend clinical rotations.

MLT Clinical Practicum

The final semester of the program involves a 15-week clinical practicum rotation at one or more clinical affiliates. Two 15-week MLT hospital rotation periods are usually available: one in summer and another in fall. The affiliated laboratories include St. Mary's Medical Center (Huntington, WV), Cabell Huntington Hospital (Huntington, WV), VA Medical Center (Huntington, WV), Thomas Memorial Hospital (South Charleston, WV), King's Daughters Medical Center (Ashland, KY), Holzer Medical Center (Gallipolis, OH), Charleston Area Medical Center (Charleston, WV), and Pleasant Valley Hospital (Point Pleasant, WV). Available hospital clinical rotations will be assigned during the course CLS 255 Clinical Lab Problems at the discretion of MLT program faculty primarily based on student overall GPA. Student preference and academic achievement will be considered. Housing and transportation are the responsibility of the student.

If there are more qualified students than available clinical spaces, students will be placed in available spaces based on GPA, achievement,

and progress in the MLT/MLS curriculum. Those not assigned to clinical rotations will receive first priority in the next available rotation schedule.

Medical Laboratory Technology Course Requirements

The Associate of Applied Science – Medical Laboratory Technology requires the following courses in addition to those listed under Core I, Core II and University requirements:

Code	Title	Credit Hours
CHM 211	Principles of Chemistry I	3
CHM 217	Principles of Chem Lab I	2
CHM 212	Principles Chemistry II	3
CHM 218	Principles of Chem Lab II	2
BSC 227	Human Anatomy	3
BSC 227L	Human Anatomy Lab	1
BSC 228	Human Physiology	3
BSC 228L	Human Physiology Lab	1
CLS 200	Clinical Biochemistry	4
CLS 230	Clinical Hematology	4
CLS 210	Clinical Immunohematology	4
CLS 220	Clinical Microbiology	4
CLS 255	Clinical Lab Problems	3
CLS 270	Clin Practicum Hematology	3
CLS 271	Clin Practicum Chemistry	3
CLS 272	Clin Pract Immunohematol	3
CLS 273	Clin Pract Microbiology	3
Total Credit Hours		**49**

Communication Disorders

Contacts: Pam Holland, Chair
Website: http://www.marshall.edu/cohp (http://www.marshall.edu/cohp/)

The Department of Communication Disorders offers an undergraduate and graduate degree in speech pathology. Speech pathologists specialize in the prevention, evaluation, and treatment of communication and swallowing disorders. Employment opportunities are excellent. A master's degree is the standard entry-level credential in this field; however, a bachelor's degree in communication disorders prepares students for graduate study in a variety of fields and leads to careers in speech pathology, audiology, and other health and educational professions.

Programs

- Communication Disorders, B.S. (p. 505)
- Communication Disorders, Minor (p. 507)
- Speech Language Pathology Assistant, Certificate Program (p. 507)

Courses

- General Education Course

CD 101 Intro Communic Disorders **3 Credit hours**
Introduction to the field of Communication Disorders for majors. Discussion of various communication disorders, as well as the roles and responsibilities of the speech-language pathologist.
Grade Mode: Normal Grading Mode

CD 228 Language and Speech Dev **3 Credit hours**
Theories of language acquisition; sequential patterns in the acquisition of prelinguistic communication, speech and language in relationship to general child development.
Grade Mode: Normal Grading Mode

CD 229 Anatomy Speech Mechanism **3 Credit hours**
Introduction to the anatomy and physiology of the speech and hearing mechanism and the neurological system. PR: CD 241 and CD 228 Introduction to the anatomy and physiology of the speech and hearing mechanism and the neurological system. PR: CD 241 and CD 228
Grade Mode: Normal Grading Mode

CD 239 Phonetics **3 Credit hours**
Introduction to articulatory phonetics; study of the International Phonetic Alphabet and practice in broad transcription of normal and disordered speech; discussion of social dialects. PR: CD 241, CD 228 Introduction to articulatory phonetics; study of the International Phonetic Alphabet and practice in broad transcription of normal and disordered speech; discussion of social dialects. PR: CD 241, CD 228
Grade Mode: Normal Grading Mode

CD 241 Intro Communication Science **3 Credit hours**
A survey of the physical and psychophysical bases of communication with discussion of elementary communication models. (PR: CD 101 and Permission) A survey of the physical and psychophysical bases of commun- ication with discussion of elementary communication models. (PR: CD 101 and Permission)
Grade Mode: Normal Grading Mode

CD 322 Dev Speech Disorders **3 Credit hours**
Introduction to developmental speech disorders; etiologies and symptoms; principles of assessment and treatment. Introduction to developmental speech disorders; etiologies and symptoms; principles of assessment and treatment.
Grade Mode: Normal Grading Mode

CD 328 Developmental Lang Dis **3 Credit hours**
Introduction to theoretical bases of developmental language disorders; etiologies and symptoms; principles of assessment and treatment.
Grade Mode: Normal Grading Mode

CD 330 Acq Comm Swallowing Dis **3 Credit hours**
Introduction to acquired disorders; etiologies and symptoms; principles of assessment and treatment. Emphasis on communication and swallowing disorders resulting from CVA, traumatic brain injury, the dementias and other neurological disorders. Introduction to acquired disorders; etiologies and symptoms; principles of assessment and treatment. Emphasis on communication and swallowing disorders resulting from CVA, traumatic brain injury, the dementias and other neurological disorders.
Grade Mode: Normal Grading Mode

CD 370L Field Exper: Sph & Lang **3 Credit hours**
Experience with preschool age children; planning and implementing speech and language stimulation activities. Experience with preschool age children; planning and implementing speech and language stimulation activities.
Grade Mode: Normal Grading Mode

CD 401 Inquiry in CD **1-3 Credit hours**
Course designed to expose undergraduate students to research in the field of CD through participation in a Community of Research Practice and individual study under the guidance of a mentor. May be repeated for credit, not to exceed a total of 12 credit hours. (PR: admission to undergraduate program and permission of advisor)
Attributes: No Textbook Required
Grade Mode: Normal Grading Mode

CD 415 Prof Literacies for SLPs **3 Credit hours**
Investigation into contemporary understandings of literacy using current communication and information technologies and resources. PR: Admission to undergraduate program; permission of instructor. Investigation into contemporary understandings of literacy using current communication and information technologies and resources. PR: Admission to undergraduate program; permission of instructor.
Attributes: Capstone Course
Grade Mode: Normal Grading Mode

CD 420 Voice and Fluency Disorders **3 Credit hours**
Introduction to voice and fluency disorders; etiologies and symptoms; principles of assessment and treatment.
Grade Mode: Normal Grading Mode

CD 424 Diagnosis Comm Disorders **3 Credit hours**
Examination of assessment procedures for differential diagnosis of various communication disorders; a study of symptom complexes; interpretation of diagnostic data.
Grade Mode: Normal Grading Mode

CD 427 Therapeutic Procedures II **3 Credit hours**
Examination of therapeutic procedures relative to speech and language disorders. Investigation into the clinician's role in case management as well as behavior management techniques. (PR: CE 426, CD 422L, CD 425, CR: CD 427L) Examination of therapeutic procedures relative to speech and language disorders. Investigation into the clinician's role in case management as well as behavior management techniques. (PR: CE 426, CD 422L, CD 425, CR: CD 427L)
Grade Mode: Normal Grading Mode

CD 460 Basic Audiology **3 Credit hours**
Introduction to hearing disorders; examination of the auditory system, psychophysical processes and preferred practice procedures for assessment. Includes laboratory. (PR: CD 429, CD 439) Introduction to hearing disorders; examination of the auditory system, psychophysical processes and preferred practice procedures for assessment. Includes laboratory. (PR: CD 429, CD 439)
Grade Mode: Normal Grading Mode

CD 461 Sign Language for SLP **3 Credit hours**
Introduction to basic signs and finger spelling. Overview of different sign systems. Introduction to basic signs and finger spelling. Overview of different sign systems.
Grade Mode: Normal Grading Mode

CD 463 Aural Rehabilitation **3 Credit hours**
Examination of various intervention strategies appropriate for individuals with hearing impairments, techniques for assessing degree of handicap. (PR: CD 460) Examination of various intervention strategies appropriate for individuals with hearing impairments, techniques for assessing degree of handicap. (PR: CD 460)
Grade Mode: Normal Grading Mode

CD 470L Therapeutic Prodecures Lab **2 Credit hours**
Guided and independent observation and analysis of the clinical process. Guided and independent observation and analysis of the clinical process.
Attributes: No Textbook Required
Grade Mode: Credit/No Credit Grade Only

CD 471 SLPA Practicum I **1 Credit hour**
A supervised SLPA clinical practicum in the MUSHC and/or other site with faculty from Marshall University.
Pre-req: CD 471L (may be taken concurrently) with a minimum grade of D.
Concurrent PR: CD 471L
Grade Mode: Normal Grading Mode

CD 471L SLPA Practicum Lab **2 Credit hours**
Introduction to the SLPA profession.
Pre-req: CD 471 (may be taken concurrently) with a minimum grade of D.
Concurrent PR: CD 471
Grade Mode: Credit/No Credit Grade Only

CD 472 Clin Prac School Children **1 Credit hour**
Supervised clinical practice with school-aged children; addresses clinical clock hour requirements set forth by American Speech Language and Hearing Association SLPA program
Pre-req: CD 471 with a minimum grade of D and CD 471L with a minimum grade of D.
Grade Mode: Credit/No Credit Grade Only

CD 472L SLPA Practicum Lab **2 Credit hours**
A lab focused on special considerations related to providing speech language pathology assistant services in the public school setting.
Pre-req: CD 471 with a minimum grade of D and CD 471L with a minimum grade of D and CD 472 (may be taken concurrently) with a minimum grade of D.
Concurrent PR: CD 472
Grade Mode: Credit/No Credit Grade Only

CD 480 Special Topics **1-4 Credit hours**
Attributes: No Textbook Required
Grade Mode: Normal Grading Mode

CD 481 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

CD 482 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

CD 483 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

CD 485 Independent Study **1-4 Credit hours**
Attributes: No Textbook Required
Grade Mode: Normal Grading Mode

CD 486 Independent Study **1-4 Credit hours**
Grade Mode: Normal Grading Mode

CD 487 Independent Study **1-4 Credit hours**
Grade Mode: Normal Grading Mode

CD 488 Independent Study **1-4 Credit hours**
Grade Mode: Normal Grading Mode

Faculty

Associate Professors
Dixon, Holland, Rutherford, Childers, Clemins

Assistant Professors
Adams, Agnello, Brown, Cottrell, Dean, Kemper, Maxwell, Young

The first five courses in the program are available to all students who have declared Communication Disorders as their major:

Code	Title	Credit Hours
CD 101	Intro Communic Disorders	3
CD 228	Language and Speech Dev	3
CD 229	Anatomy Speech Mechanism	3
CD 239	Phonetics	3
CD 241	Intro Communication Science	3

Upon completion of these courses, students may apply to gain permission to register for upper-level CD courses. Applications are due prior to April 30/November 30 of the year in which this is sought.

Permission to Continue in the CD Program

Category A

1. Those with a grade of *C* or better in all pre-CD courses and faculty approval are guaranteed continuation in the program; and
2. Must meet all the following criteria:

   a. 3.0 or higher overall GPA

   b. 3.0 or higher MU GPA

   c. 3.0 or higher CD GPA*,

Category B

1. These applicants will be considered on a case-by-case basis as space is available and are eligible to apply to the CD program; however, permission to continue in the program is not guaranteed.

2. Must have a grade of *C* or better and faculty approval in:

Code	Title	Credit Hours
CD 101	Intro Communic Disorders	3
CD 241	Intro Communication Science	3
CD 228	Language and Speech Dev	3
CD 229	Anatomy Speech Mechanism	3
CD 239	Phonetics	3

- Once students are permitted to continue in the undergraduate program, they must maintain the minimum requirements of 2.5 GPA (which includes the following 3 categories:

  1. 2.5 overall,
  2. 2.50 MU
  3. 2.5 CD
  4. a grade of *C* or better in all CD courses.

Students may not repeat CD courses for the purpose of raising their GPA to maintain eligibility in the program.

Continuing students must complete the remaining degree requirements (academic coursework and clinical assignments) leading to a B.S. in Communication Disorders, a pre-professional degree. Students who apply for and/or accept clinical assignments are expected to fulfill the responsibilities of these assignments for the full semester. Students should consult the department chair, their academic advisor, and the clinic handbook regarding all academic and clinical requirements and standards specific to the program

Communication Disorders, B.S.

The Department of Communication Disorders offers an undergraduate and graduate degree in speech pathology. Speech pathologists specialize in the prevention, evaluation, and treatment of communication and swallowing disorders. Employment opportunities are excellent. A master's degree is the standard entry-level credential in this field; however, a bachelor's degree in communication disorders prepares students for graduate study in a variety of fields and leads to careers in speech pathology, audiology, and other health and educational professions.

Academic Policies

The first five courses in the program are available to all students who have declared Communication Disorders as their major:

Code	Title	Credit Hours
CD 101	Intro Communic Disorders	3
CD 228	Language and Speech Dev	3
CD 229	Anatomy Speech Mechanism	3
CD 239	Phonetics	3
CD 241	Intro Communication Science	3

Upon completion of these courses, students may apply to gain permission to register for upper-level CD courses. Applications are due prior to April 30/November 30 of the year in which this is sought.

Permission to Continue in the CD Program

Category A

1. Those with a grade of *C* or better in all pre-CD courses and faculty approval are guaranteed continuation in the program; and
2. Must meet all the following criteria:
   a. 3.0 or higher overall GPA
   b. 3.0 or higher MU GPA
   c. 3.0 or higher CD GPA*,

Category B

1. These applicants will be considered on a case-by-case basis as space is available and are eligible to apply to the CD program; however, permission to continue in the program is not guaranteed.
2. Must have a grade of *C* or better and faculty approval in:

Code	Title	Credit Hours
CD 101	Intro Communic Disorders	3
CD 241	Intro Communication Science	3
CD 228	Language and Speech Dev	3
CD 229	Anatomy Speech Mechanism	3
CD 239	Phonetics	3

3. Must meet all the following criteria:
   a. 2.5-2.99 overall GPA
   b. 2.5-2.99 MU GPA
   c. 2.5-2.99 CD GPA

Once students are permitted to continue in the undergraduate program, they must maintain the minimum requirements of 2.5 GPA (which includes the following 3 categories:

1. 2.5 overall,
2. 2.50 MU
3. 2.5 CD
4. a grade of *C* or better in all CD courses.

Students may not repeat CD courses for the purpose of raising their GPA to maintain eligibility in the program.

Continuing students must complete the remaining degree requirements (academic coursework and clinical assignments) leading to a B.S. in Communication Disorders, a pre-professional degree. Students who apply for and/or accept clinical assignments are expected to fulfill the responsibilities of these assignments for the full semester. Students should consult the department chair, their academic advisor, and the clinic handbook regarding all academic and clinical requirements and standards specific to the program.

- General Education Course

- Milestone course: a key success marker for your major. See your advisor to discuss the importance of this course in your plan of study.

Major

The Core Curriculum is designed to foster critical thinking skills and introduce students to basic domains of thinking that transcend disciplines. The Core applies to all majors. Information on specific classes in the Core can be found at https://www.marshall.edu/gened/.

Code	Title	Credit Hours
Core Curriulum		
Core 1: Critical Thinking		
FYS 100	First Yr Sem Critical Thinking	3
MTH 121	Concepts and Applications (CT)	3
PSY 201	Introductory Psychology (CT)	3
Core 2		
ENG 101	Beginning Composition	3
ENG 201	Advanced Composition	3
Core II Communication		3
MTH 121	Concepts and Applications (CT)	3
Any CHM + Lab or PHY + Lab		4
Core II Humanities		3
PSY 201	Introductory Psychology (CT)	3
Core II Fine Arts		3
Additional University Requirements		
Writing Intensive		3
Writing Intensive		3
Multicultural or International		3
CD 415	Prof Literacies for SLPs (Capstone)	3
Major-Specific		
CD 101	Intro Communic Disorders [1]	3
CD 241	Intro Communication Science [1]	3
CD 228	Language and Speech Dev [1]	3
CD 229	Anatomy Speech Mechanism [1]	3
CD 239	Phonetics [1]	3
CD 322	Dev Speech Disorders	3
CD 328	Developmental Lang Dis	3
CD 330	Acq Comm Swallowing Dis	3
CD 370L	Field Exper: Sph & Lang	3
CD 415	Prof Literacies for SLPs (Capstone)	3
CD 424	Diagnosis Comm Disorders	3
CD 427	Therapeutic Procedures II	3
CD 470L	Therapeutic Prodecures Lab	2
CD 460	Basic Audiology	3
CD 463	Aural Rehabilitation	3
Any Biology Course		4
CISP 421	Child with Exceptionalities	3
EDF 201	Ed Psych Developing Learner	3
Foreign Language		3
Foreign Language		3
Foreign Language		3
PSY 223	Elem Behavioral Stat (or equivalent)	3
PSY 311	Child Development	3
Additional Social Science		3
Additional Humanities		3
Free Elective		3
Free Elective		1
Free Elective		1

[1] The first five courses in the program are available to all students who have declared Communication Disorders as their major. Upon completion of these courses, students may apply to gain permission to continue in the CD program and register for upper-level CD courses. Applications are due November 30/April 30 following completion of the first 5 courses above.

Major Information

- Students are required to know and track their degree requirements for graduation or for entrance to a professional school.
- Course offerings and course attributes are subject to change semesters. Please consult each semesters schedule of courses for availability and attributes.
- Foreign Language requirement may be met by taking 9 hours in one language or 6 hours in one language and CD 461 Sign Language for SLP.
- Students must seek permission to register for CD courses (with the exception of CD 101 Intro Communic Disorders) from their academic advisor.

- General Education Course

- Milestone course: a key success marker for your major. See your advisor to discuss the importance of this course in your plan of study.

Four Year Plan

The Department of Communication Disorders offers both an undergraduate and graduate degree in communication disorders. Speech pathologists specialize in the evaluation, remediation, and prevention of communication disorders and employment opportunities are excellent. A master's degree is the standard entry-level credential in this field; however, a bachelor's degree in communication disorders prepares students for graduate study in a variety of fields and leads to careers in speech pathology, audiology, and other professions.

Course	Title	Credit Hours
First Year		
First Semester		
CD 101	Intro Communic Disorders	3
PSY 201	Introductory Psychology (CT)	3
Core II Communication		3
FYS 100	First Yr Sem Critical Thinking	3
MTH 121	Concepts and Applications (CT)	3
UNI 100	Freshman First Class	1
	Credit Hours	**16**
Second Semester		
Any CHM + Lab or PHY + Lab		4
CD 241	Intro Communication Science	3
ENG 101	Beginning Composition	3
Core II Fine Arts		3
Free Elective		3
	Credit Hours	**16**
Second Year		
First Semester		
CD 228	Language and Speech Dev	3
ENG 201	Advanced Composition	3
Foreign Language		3
Multicultural/International		3
Free Elective		3
	Credit Hours	**15**
Second Semester		
CD 229	Anatomy Speech Mechanism	3
CD 239	Phonetics	3
PSY 311	Child Development	3
Foreign Language		3
Core II Humanities		3
	Credit Hours	**15**
Third Year		
First Semester		
CD 322	Dev Speech Disorders	3
CD 370L	Field Exper: Sph & Lang	3
Any Biology Course w/ lab		4
Additional Social Science		3
Foreign Language		3
	Credit Hours	**16**
Second Semester		
CD 328	Developmental Lang Dis	3
CD 460	Basic Audiology	3
CISP 421	Child with Exceptionalities	3
CD 330	Acq Comm Swallowing Dis	3
Additional Humanities		3
	Credit Hours	**15**
Fourth Year		
First Semester		
CD 424	Diagnosis Comm Disorders	3
CD 463	Aural Rehabilitation	3
CD 415	Prof Literacies for SLPs	3
Writing Intensive		3
PSY 223	Elem Behavioral Stat (or equivalent)	3
	Credit Hours	**15**
Second Semester		
CD 427	Therapeutic Procedures II	3
CD 470L	Therapeutic Prodecures Lab	2
EDF 201	Ed Psych Developing Learner	3
Free Elective		1
Writing Intensive		3
	Credit Hours	**12**
	Total Credit Hours	**120**

Communication Disorders, Minor

This 12-hour minor will consist of completion of 4 out of the 5 courses listed below:

Code	Title	Credit Hours
Select four of the following:		12
CD 101	Intro Communic Disorders	
CD 241	Intro Communication Science	
CD 228	Language and Speech Dev	
CD 229	Anatomy Speech Mechanism	
CD 239	Phonetics	
Total Credit Hours		**12**

Speech Language Pathology Assistant, Certificate Program

A Speech-Language Pathology-Assistant (SLP-A) is defined as a professional who supports the speech language pathologist by engaging in tasks that are planned, delegated, and supervised by the speech-language pathologist. In doing so, the SLP-A provides exceptional patient care, provides speech language pathology services, and enhances the productivity of the speech-language pathology practice to improve patient experiences and services in accordance with local, state, and federal regulations (ASHA 2020).

The Department of Communication Disorders at Marshall University is committed to ensure all students graduating with a bachelor's degree in Communication Disorders secure employment. The Speech-Language Pathology Assistant Certificate Program is a 2 semester program (excluding prerequisite coursework) that provides a pathway students may select to achieve this goal.

Additional information can be found on the American Speech-Language-Hearing Association, (ASHA) website. Scope of Practice of the SLP-A at https://www.asha.org/siteassets/publications/sp2016-00343.pdf.

Admission to the SLP-A Certificate Program

Students interested in enrolling the SLP-A Certificate Program must:

- Have a minimum GPA of 2.8 overall (associate degree or bachelor's degree); formal transcripts must be submitted to the Chair of the department.
- Submit a formal letter of intent. This should provide answers to the following questions:

1) Why are you interested in enrolling in the SLP-A Program at Marshall University?

2) What are your professional goals?

3) What skill sets do you hold that qualify you to be an SLP-A?

- Submit 2 letters of recommendation. Letters of recommendation must be sent directly from the person writing the letter. No letters of recommendation will be accepted if sent via student.

The SLP-A Certificate Program at Marshall University has rolling admissions but all students will begin their curriculum requirements in the fall or summer. Required documents must be submitted to communicationdisorders@marshall.edu. The subject line for the email should state: SLP-A Application.

Entry to the program:

There are two pathways for entry into the SLP-A Certificate program.

- Pathway 1: The individual is pursuing a bachelor's degree in Communication Sciences and Disorders from an accredited institution.
- Pathway 2: The individual is pursuing or currently holds an associate or bachelor's degree from an accredited institution and has completed the following coursework in person or online: (Courses must have been completed no more than two years before you apply for the C-SLP-A).
- CD 101 Introductory or Overview Course in Communication Disorders
- CD 239 Phonetics
- CD 228 Language Development
- Speech Sound Disorders
- CD 328 Language Disorders
- CD 229 Anatomy and Physiology of the Speech and Hearing Mechanisms

Students who are interested in enrolling in the above courses to prepare for admission to the SLP-A Program should contact Pam Holland at holland@marshall.edu / 304-696-2985.

In order for students to remain in good academic standing and continue in the program, a GPA of 3.0 must be maintained.

Course Requirements for SLP-A Certificate

Code	Title	Credit Hours
CD 471	SLPA Practicum I	1
CD 471L	SLPA Practicum Lab	2
CD 472	Clin Prac School Children	1
CD 472L	SLPA Practicum Lab	2

Students without a bachelor's degree in communication disorders are eligible to apply for the certificate program.

Dietetics

Contacts: Dr. Kelli Williams, Chair
Website: http://www.marshall.edu/dietetics (http://www.marshall.edu/dietetics/)

The Didactic Program in Dietetics (DPD) leads to a Bachelor of Science degree and prepares students for work in clinical nutrition, community health, and foodservice management positions. The DPD is currently granted accreditation by the Accreditation Council for Education in Nutrition and Dietetics (ACEND, 120 South Riverside Plaza, Suite 2000, Chicago, IL 60606-3922, 312-899-4876). The DPD meets the academic standards to qualify students for a dietetics internship (DI). Eligibility to sit for the registration examination, which is necessary to become a Registered Dietitian Nutritionist (RDN), requires students to complete both the undergraduate DPD as well as a post-baccalaureate supervised practice experience in a DI.

Effective January 1, 2024, the Commission on Dietetic Registration (CDR) will require a minimum of a master's degree to be eligible to take the credentialing exam to become a registered dietitian nutritionist. In order to be approved for registration examination eligibility with a bachelor's degree, an individual must meet all eligibility requirements and be submitted into CDR's Registration Eligibility Processing System (REPS) before 12:00 midnight Central Time, December 31, 2023. For more information about this requirement, visit CDR's website: https://www.cdrnet.org/graduatedegree. In addition, CDR requires that individuals complete coursework and a supervised practice program accredited by the Accreditation Council for Education in Nutrition and Dietetics (ACEND). Graduates who successfully complete the ACEND-accredited Didactic Program in Dietetics at Marshall University are eligible to apply to an ACEND-accredited supervised practice program and apply to take the CDR credentialing exam to become an RDN.

The mission of the DPD at Marshall University is to provide the depth and breadth of food and nutrition knowledge and skills that prepare a student to enter a supervised practice program in dietetics. More specifically, its focus is to provide graduates with the knowledge, skills, and competencies necessary to successfully compete for and complete a DI, as well as pass the registration examination. Each year,

coursework builds upon the students' knowledge base and is often enhanced by hands-on laboratory and field experiences.

Competitive admission to a supervised practice experience/ dietetic internship (DI) requires the following:

1. A Grade Point Average of 3.0 or above;
2. Work experience related to the profession of dietetics;
3. Positive letters of recommendation from faculty and from supervisors of dietetics-related work experience.

Completing the Bachelor of Science with a major in Dietetics and receiving an ACEND "Verification of Completion Statement" does not guarantee entrance to a DI, which is awarded on a competitive basis.

All students are required to purchase a laboratory coat for professional laboratory courses. In addition, some field experience sites for senior-level courses may require a current test for tuberculosis to be on file. DPD students are required to pay a Health Professions fee listed under the "Financial Information" section of the catalog.

Academic Policies

1. All dietetics and required non-dietetics courses must be completed with a grade of *C* or higher. Students who earn a grade of less than a *C* in a dietetics or required non-dietetics course must repeat that course.
2. All students who receive a grade of less than a *C* in a dietetics or required non-dietetics course may not register for dietetics courses for which that course is a prerequisite.
3. No required course may be taken on a credit/non-credit basis.
4. The last 60 hours of required dietetics courses (including all 300- and 400-level DTS courses) and non-dietetics courses must be completed within three years prior to graduation.
5. All 400-level DTS courses must be completed at Marshall University.
6. All students in the Dietetics program must maintain a cumulative GPA of at least 2.0. In the event that a student's cumulative GPA falls below 2.0, that student will be placed on academic probation and will be notified in writing of this action. Students have one year to raise their cumulative GPA to 2.0. If the GPA is less than 2.0 at the end of one year of probation, the student will be dismissed from the Dietetics program.
7. Students will not be permitted to enroll in 400-level DTS courses if their GPA is below 2.5.
8. Students enrolled in DTS 476 Senior Seminar in DTS are required to take a series of practice tests in order to better prepare for the national registration examination. Students must score a minimum of 80% on the final practice examination in order to complete the course. Those who do not will be given remedial work until an 80% score is achieved.

Programs

- Dietetics, B.S. (p. 510)

Courses

- General Education Course

DTS 202 Introductory Foods **4 Credit hours**
Provides basic understanding of the science of food and food substances. Instruction on nutrients will be integrated with preparation of foods to form the laboratory experience. Provides basic understanding of the science of food and food substances. Instruction on nutrients will be integrated with preparation of foods to form the laboratory experience.
Pre-req: DTS 210 with a minimum grade of C.
Grade Mode: Normal Grading Mode

DTS 210 Nutrition **3 Credit hours**
Principles of human nutrition and their application in planning and evaluating dietaries for individuals and families.
Grade Mode: Normal Grading Mode

DTS 215 Assess and Ed Strat in DTS **3 Credit hours**
Establish a foundation for effective nutrition assessment and education of individuals and groups. Establish a foundation for effective nutrition assessment and education of individuals and groups.
Pre-req: DTS 202 with a minimum grade of C.
Grade Mode: Normal Grading Mode

DTS 280 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

DTS 301 FS Safety & Systems Mgt I **4 Credit hours**
A study of foodservice management and an in-depth look at food safety in foodservice establishments. Laboratory/field experiences provide students a better perspective of foodservice management in various institutions. A study of foodservice management and an in-depth look at food safety in foodservice establishments. Laboratory/field experiences provide students a better perspective of foodservice management in various institutions.
Pre-req: DTS 202 with a minimum grade of C and BSC 250 with a minimum grade of C.
Grade Mode: Normal Grading Mode

DTS 302 FS Safety & Sys Mgt II **4 Credit hours**
A continued study of foodservice management principles. The course emphasizes quantity production, distribution, and service of foods as well as facility planning and design. A continued study of foodservice management principles. The course emphasizes quantity production, distribution, and service of foods as well as facility planning and design.
Pre-req: DTS 301 with a minimum grade of C.
Grade Mode: Normal Grading Mode

DTS 310 Life Span Nutrition **3 Credit hours**
An exploration of the scientific principles of human nutrition and nutrient needs for stages of the life cycle, which include prenatal, gestational, infancy, toddler, child, preadolescent, adult, and elderly. An exploration of the scientific principles of human nutrition and nutrient needs for stages of the life cycle, which include prenatal, gestational, infancy, toddler, child, preadolescent, adult, and elderly.
Pre-req: DTS 210 with a minimum grade of C.
Grade Mode: Normal Grading Mode

DTS 320 Intermediate Nutrition **3 Credit hours**
Builds on knowledge acquired in introductory nutrition, and prepares students for advanced nutrition courses. Development of therapeutic diets, analysis of vitamin and mineral needs, and digestive processes discussed in detail. Builds on knowledge acquired in introductory nutrition, and prepares students for advanced nutrition courses. Development of therapeutic diets, analysis of vitamin and mineral needs, and digestive processes discussed in detail.
Pre-req: DTS 210 with a minimum grade of C and BSC 227 with a minimum grade of C.
Grade Mode: Normal Grading Mode

DTS 403 Advanced Nutrition **3 Credit hours**
An in-depth study of digestion, absorption, and metabolism of macronutrients; maintaining homepstasis in the body is also discussed in relationship to fluid, electrolyte, and acid-base balance. An in-depth study of digestion, absorption, and metabolism of macronutrients; maintaining homepstasis in the body is also discussed in relationship to fluid, electrolyte, and acid-base balance.
Pre-req: DTS 320 with a minimum grade of C and BSC 228 with a minimum grade of C.
Grade Mode: Normal Grading Mode

DTS 409 Nutrition in Community **3 Credit hours**
Nutritional needs of communities and the dietician's role in addressing them are identified, and community nutrition programs are closely examined. Nutritional needs of communities and the dietician's role in addressing them are identified, and community nutrition programs are closely examined.
Pre-req: DTS 210 with a minimum grade of C and DTS 202 with a minimum grade of C.
Grade Mode: Normal Grading Mode

DTS 410 Cross Cultural Foods **3 Credit hours**
Explores the relationship between food, nutrition, history, geography, culture, traditions, religion, communication, and acculturation. Studies cultural parameters and current issues that have shaped and continue to influence foodways.
Grade Mode: Normal Grading Mode

DTS 460 Research in Dietetics **3 Credit hours**
An introduction to quantitative and qualitative research methodologies with application in the field of dietetics. An introduction to quantitative and qualitative research methodologies with application in the field of dietetics.
Grade Mode: Normal Grading Mode

DTS 468 Chemistry of Food **3 Credit hours**
Experimental study of chemical and physical factors affecting food preparation. Experimental study of chemical and physical factors affecting food preparation.
Pre-req: DTS 202 with a minimum grade of C.
Grade Mode: Normal Grading Mode

DTS 469 Medical Nutr Therapy I **3 Credit hours**
A study of medical diseases and conditions in relation to medical nutrition therapy and the nutrition care process. A study of medical diseases and conditions in relation to medical nutrition therapy and the nutrition care process.
Pre-req: DTS 320 (may be taken concurrently) with a minimum grade of C and BSC 228 with a minimum grade of C.
Concurrent PR: DTS 320
Grade Mode: Normal Grading Mode

DTS 470 Medical Nutrition Therapy **3 Credit hours**
A continued study of medical diseases and conditions in relation to medical nutrition therapy and the nutrition care process. Case study presentations access critical thinking skills. A continued study of medical diseases and conditions in relation to medical nutrition therapy and the nutrition care process. Case study presentations access critical thinking skills.
Pre-req: DTS 469 with a minimum grade of C.
Grade Mode: Normal Grading Mode

DTS 476 Senior Seminar in DTS **3 Credit hours**
As a synthesis of dietetics program content, students will use food and nutrition knowledge to plan, implement, and evaluate a nutrition education program and prepare for supervised practice. As a synthesis of dietetics program content, students will use food and nutrition knowledge to plan, implement, and evaluate a nutrition education program and prepare for supervised practice.
Attributes: Capstone Course
Grade Mode: Normal Grading Mode

DTS 480 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

DTS 485 Independent Study **1-4 Credit hours**
Grade Mode: Normal Grading Mode

Faculty

Professor
Gould, Williams

Associate Professor
Bender, Gannon, Mount

Dietetics, B.S.

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7. Students will not be permitted to enroll in 400-level DTS courses if their GPA is below 2.5.
8. Students enrolled in DTS 476 Senior Seminar in DTS are required to take a series of practice tests in order to better prepare for the national registration examination. Students must score a minimum of 80% on the final practice examination in order to complete the course. Those who do not will be given remedial work until an 80% score is achieved.

- General Education Course

- Milestone course: a key success marker for your major. See your advisor to discuss the importance of this course in your plan of study.

Major

The Core Curriculum is designed to foster critical thinking skills and introduce students to basic domains of thinking that transcend disciplines. The Core applies to all majors. Information on specific classes in the Core can be found at https://www.marshall.edu/gened/.

Code	Title	Credit Hours
Core Curriculum		
Core 1: Critical Thinking		
FYS 100	First Yr Sem Critical Thinking	3
PSY 201	Introductory Psychology (CT)	3
SOC 200	Introductory Sociology (CT) ((W))	3
Core 2		
ENG 101	Beginning Composition	3
ENG 201	Advanced Composition	3
CMM 103	Fund Speech-Communication	3
MTH 130	College Algebra	3-5
or MTH 127	College Algebra-Expanded	
BSC 228 & BSC 228L	Human Physiology and Human Physiology Lab	4
Core II Humanities (WI)		3
PSY 201	Introductory Psychology (CT)	3
Core II Fine Arts		3
Additional University Requirements		
Writing Intensive (Core II Humanities)		3
SOC 200	Introductory Sociology (CT) (Writing Intensive Section)	3
SOC 200	Introductory Sociology (CT) (Multicultural/ International)	3
DTS 476	Senior Seminar in DTS (Capstone)	3
Major-Specific		
ACC 215	Accounting Principles (CT)	3
BSC 227 & BSC 227L	Human Anatomy and Human Anatomy Lab	4
BSC 250	Microbiol & Human Disease	3
CHM 211	Principles of Chemistry I	3
CHM 217	Principles of Chem Lab I	2
CHM 212	Principles Chemistry II	3
CHM 218	Principles of Chem Lab II	2
CHM 327	Intro Organic Chemistry	3
CLS 105	Medical-Lab Terminology (CT)	3
CLS 200	Clinical Biochemistry	4
DTS 210	Nutrition	3
DTS 202	Introductory Foods	4
DTS 215	Assess and Ed Strat in DTS	3
DTS 301	FS Safety & Systems Mgt I	4
DTS 302	FS Safety & Sys Mgt II	4
DTS 310	Life Span Nutrition	3
DTS 320	Intermediate Nutrition	3

DTS 403	Advanced Nutrition	3
DTS 409	Nutrition in Community	3
DTS 410	Cross Cultural Foods	3
DTS 460	Research in Dietetics	3
DTS 468	Chemistry of Food	3
DTS 469	Medical Nutr Therapy I	3
DTS 470	Medical Nutrition Therapy	3
DTS 476	Senior Seminar in DTS (Capstone)	3
ESS 345	Exercise Physiology	3
STA 225	Introductory Statistics (CT)	3

Major Information

- Students are required to know and track their degree requirements for graduation or for entrance to a dietetic internship.
- Course offerings and course attributes are subject to change each semester. Please consult each semester's schedule of courses for availability and attributes.
- Students may need to take extra courses to satisfy prerequisites.
- Some DTS courses are only offered on an every-other-year basis. Please meet with your advisor every semester to ensure proper course enrollment.
- Students will not be permitted to enroll in 400-level DTS courses if their GPA is below 2.5.
- All 400-level DTS courses must be completed at Marshall University.

- General Education Course

- Milestone course: a key success marker for your major. See your advisor to discuss the importance of this course in your plan of study.

Four Year Plan

The Didactic Program in Dietetics (DPD) leads to a Bachelor of Science degree and prepares students for work in clinical nutrition, community health, and food-service management positions. The DPD is currently granted accreditation by the Accreditation Council for Education in Nutrition and Dietetics (ACEND). The DPD meets the academic standards to qualify students for a dietetics internship (DI). Eligibility to sit for the registration examination, which is necessary to become a Registered Dietitian, requires students to complete both the undergraduate DPD as well as a post-baccalaureate supervised practice experience in a DI.

Course	Title	Credit Hours
First Year		
First Semester		
UNI 100	Freshman First Class	1
CHM 211	Principles of Chemistry I	3
CHM 217	Principles of Chem Lab I	2
ENG 101	Beginning Composition	3
FYS 100	First Yr Sem Critical Thinking	3
MTH 130 or MTH 127	College Algebra or College Algebra-Expanded	3-5
	Credit Hours	**15-17**
Second Semester		
BSC 227	Human Anatomy	3
BSC 227L	Human Anatomy Lab	1
CHM 212	Principles Chemistry II	3
CHM 218	Principles of Chem Lab II	2
CMM 103	Fund Speech-Communication	3
SOC 200	Introductory Sociology (CT) (MC, WI)	3
	Credit Hours	**15**
Second Year		
First Semester		
BSC 250	Microbiol & Human Disease	3
CLS 105	Medical-Lab Terminology (CT)	3
DTS 210	Nutrition	3
ENG 201	Advanced Composition	3
PSY 201	Introductory Psychology (CT)	3
	Credit Hours	**15**
Second Semester		
BSC 228	Human Physiology	3
BSC 228L	Human Physiology Lab	1
CLS 200	Clinical Biochemistry	4
DTS 202	Introductory Foods	4
DTS 215	Assess and Ed Strat in DTS	3
	Credit Hours	**15**
Third Year		
First Semester		
CHM 327	Intro Organic Chemistry	3
DTS 301	FS Safety & Systems Mgt I	4
DTS 320	Intermediate Nutrition	3
STA 225	Introductory Statistics (CT)	3
	Credit Hours	**13**
Second Semester		
DTS 302	FS Safety & Sys Mgt II	4
DTS 310	Life Span Nutrition	3
DTS 410	Cross Cultural Foods	3
DTS 403	Advanced Nutrition	3
Writing Intensive		3
	Credit Hours	**16**
Fourth Year		
First Semester		
DTS 409	Nutrition in Community	3
DTS 468	Chemistry of Food	3
DTS 469	Medical Nutr Therapy I	3
DTS 476	Senior Seminar in DTS (Capstone)	3
Core II Fine Arts		3
	Credit Hours	**15**
Second Semester		
DTS 460	Research in Dietetics	3
DTS 470	Medical Nutrition Therapy	3
ESS 345	Exercise Physiology	3
ACC 215	Accounting Principles (CT)	3

Core II Humanities	3
Credit Hours	**15**
Total Credit Hours	**119-121**

Health Sciences

The Health Sciences major offers an interdisciplinary approach designed to develop a strong foundation of core skills in preparation for advanced education in a variety of health careers. All students gain knowledge about critical aspects of health: physical and cognitive function, disease and disability, contemporary public health challenges and opportunities, professional communication, the scientific bases of health care knowledge, and ethical and professional issues associated with our complex health care system. Students learn from accomplished faculty across the disciplines in the College of Health Professions and study side by side with other students who aspire to make a difference in people's lives.

Students will graduate with a Bachelor of Health Sciences degree. Graduates from this program may pursue employment in the health care field (public health, governmental and community agencies, insurance industry, hospitals, or the pharmaceutical industry) or may pursue graduate programs in health informatics, public health, a clinical profession (medicine, occupational therapy, pharmacy, physician assistant, or physical therapy), health administration, business, or law. Careful selection of available courses will optimize admission to desired graduate degree programs. A required capstone will allow students to synthesize what they have learned in their coursework to provide hands-on experience in a health-related environment such as a clinic or agency.

The Health Sciences degree consists of 120 college credit hours. Students may declare the B.H.S. major on admission to the university. Students in the program must maintain a 2.0 grade point average. A maximum of three *D's* in the Health Sciences required courses will be accepted toward the B.H.S. degree.

A list of approved restricted electives is available in the COHP Student Services Offices and from the academic advisors. Any courses not listed that students wish to take as electives must be approved in advance by the academic advisor.

Programs

- Health Sciences, B.S. (p. 513)

Courses

- General Education Course

Health Professions

HP 110 Intro to the Health Profession **3 Credit hours**
This course is designed to provide an overview of the health care system and health professions taught within the MU campus and throughout the state.
Grade Mode: Normal Grading Mode

HP 210 Health Sciences Seminar **3 Credit hours**
This course is designed to bring outside non-clinical speakers to discuss professionalism in health care. Students analyze career opportunities and establish non-clinical career expectations.
Attributes: No Textbook Required
Grade Mode: Normal Grading Mode

HP 240 Intro to Human Diseases in HS **3 Credit hours**
A clinical overview of the common human diseases at a patient and scientist level, with emphasis on bridging the communication gap between health professionals, patients, and the general public.
Grade Mode: Normal Grading Mode

HP 320 Intro to Res in Health Prof **3 Credit hours**
This course covers the basic quantitative and qualitative research techniques used in the health professions.
Pre-req: HP 210 with a minimum grade of D or HP 240 with a minimum grade of D.
Grade Mode: Normal Grading Mode

HP 420 Allied Health Sciences Admin **3 Credit hours**
In this course students will explore and apply allied health sciences principles as they related to the student's focus in the Health Sciences major.
Grade Mode: Normal Grading Mode

HP 450 BHS Senior Seminar **1 Credit hour**
Opportunity for students to explore current topics related to areas of interest.
Grade Mode: Normal Grading Mode

HP 480 Special Topics in HP **1-4 Credit hours**
Courses will be developed in special topics in Health Professions as deemed necessary by the Dean, COHP Courses will be developed in special topics in Health Professions as deemed necessary by the Dean, COHP
Grade Mode: Normal Grading Mode

HP 481 Special Topics in HP **1-4 Credit hours**
Courses will be developed in special topics in Health Professions as deemed necessary by the Dean, COHP Courses will be developed in special topics in Health Professions as deemed necessary by the Dean, COHP
Grade Mode: Normal Grading Mode

HP 482 Special Topics in HP **1-4 Credit hours**
Courses will be developed in special topics in Health Professions as deemed necessary by the Dean, COHP Courses will be developed in special topics in Health Professions as deemed necessary by the Dean, COHP
Grade Mode: Normal Grading Mode

HP 483 Special Topics in HP **1-4 Credit hours**
Courses will be developed in special topics in Health Professions as deemed necessary by the Dean, COHP Courses will be developed in special topics in Health Professions as deemed necessary by the Dean, COHP
Grade Mode: Normal Grading Mode

HP 490 Capstone **3-6 Credit hours**
This course offers an opportunity for students to demonstrate that they have achieved the goals for learning established the Bachelor of Health Sciences Program.
Attributes: Capstone Course, No Textbook Required
Grade Mode: Normal Grading Mode

Health Sciences, B.S.

- General Education Course

- Milestone course: a key success marker for your major. See your advisor to discuss the importance of this course in your plan of study.

Major

The Core Curriculum is designed to foster critical thinking skills and introduce students to basic domains of thinking that transcend disciplines. The Core applies to all majors. Information on specific classes in the Core can be found at https://www.marshall.edu/gened/.

Code	Title	Credit Hours
Core Curriculum		
Core 1: Critical Thinking		
FYS 100	First Yr Sem Critical Thinking	3
Critical Thinking		3
PSY 201	Introductory Psychology (CT) (recommended)	
Critical Thinking		3
SOC 200	Introductory Sociology (CT) (recommended)	
Core 2		
ENG 101	Beginning Composition	3
ENG 201	Advanced Composition	3
CMM 103	Fund Speech-Communication	3
Core II Mathematics		3
Core II Physical/Natural Science		4
Core II Humanities		3
Core II Social Science (PSY 201 recommended)		3
PSY 201	Introductory Psychology (CT) (recommended)	
Core II Fine Arts		3
Additional University Requirements		
HP 420	Allied Health Sciences Admin (WI)	3
HP 320	Intro to Res in Health Prof (WI)	3
Multicultural or International		3
SOC 200	Introductory Sociology (CT) (recommended)	
HP 490	Capstone	3-6
Major-Specific		
HP 110	Intro to the Health Profession	3
HP 210	Health Sciences Seminar	3
HP 240	Intro to Human Diseases in HS	3
HP 320	Intro to Res in Health Prof (WI)	3
HP 420	Allied Health Sciences Admin (WI)	3
HP 490	Capstone	3-6
SWK 203	Intro To Social Work	3
HS 200	Comp Medical Terminology (CT)	3
HS 201	Intro Appl Anat & Physiol	3
Select two of the following:		6-8
PH 101	Intro to Public Health	
PH 105	Intro to Epidemiology	
PH 270	Global Health (CT)	
BSC 120 & BSC 120L	Principles of Biology I and Principles of Biology I Lab	
BSC 250	Microbiol & Human Disease	
DTS 210	Nutrition	
HP 480	Special Topics in HP	
ECN 200	Survey of Economics	
STA 225	Introductory Statistics (CT)	3
300/400 Restricted Elective		3
300/400 Restricted Elective		3
300/400 Restricted Elective		3
300/400 Restricted Elective		3
300/400 Restricted Elective		3
300/400 Restricted Elective		3
Restricted Elective		4
Restricted Elective		3
Restricted Elective		3
Restricted Elective		3
Restricted Elective		3
Restricted Elective		3
Free Elective		3
Free Elective		3
Free Elective		3
Free Elective		3
Free Elective		3

Major Information

- Students are required to know and track their degree requirements for graduation or for entrance to a professional school.
- Course offerings and course attributes are subject to change semesters. Please consult each semesters schedule of courses for availability and attributes.
- The Health Sciences degree consists of 120 college credit hours.
- Students may declare the B.H.S. major on admission to the university. Students in the program must maintain a 2.0 grade point average. A maximum of three *D's* in the Health Sciences required courses will be accepted toward the degree.
- A list of approved restricted electives is available in the COHP Student Services Offices and from the academic advisors. Any courses not listed that students wish to take as electives must be approved in advance by the academic advisor.
- A minimum of 37 hours of restricted electives are required. 18 hours must be upper division (300- or 400-level) (maximum of 27 hours of College of Business courses).

- General Education Course

- Milestone course: a key success marker for your major. See your advisor to discuss the importance of this course in your plan of study.

Four Year Plan

The Health Sciences major offers an interdisciplinary approach designed to develop a strong foundation of core skills in preparation for advanced education in a variety of health careers. All students gain knowledge about critical aspects of health: physical and cognitive function, disease and disability, contemporary public health challenges and opportunities, professional communication, the scientific bases of health care knowledge, and ethical and professional issues associated with our complex health care system. Students learn from accomplished faculty across the disciplines in the College of Health Professions and study side by side with other students who aspire to make a difference in people's lives.

Course	Title	Credit Hours
First Year		
First Semester		
CMM 103	Fund Speech-Communication	3
ENG 101	Beginning Composition	3
FYS 100	First Yr Sem Critical Thinking	3
Core II Mathematics		3
HP 110	Intro to the Health Profession	3
UNI 100	Freshman First Class	1
	Credit Hours	**16**
Second Semester		
HS 201	Intro Appl Anat & Physiol	3
HS 200	Comp Medical Terminology (CT)	3
Core II Social Science (CT)		3
PSY 201	Introductory Psychology (CT) (recommended)	
Select one of the following:		3-4
PH 101	Intro to Public Health	
PH 105	Intro to Epidemiology	
PH 270	Global Health (CT)	
BSC 120 & BSC 120L	Principles of Biology I and Principles of Biology I Lab	
BSC 250	Microbiol & Human Disease	
DTS 210	Nutrition	
HP 480	Special Topics in HP	
ECN 200	Survey of Economics	
Core I Critical Thinking (MC/I) (SOC 200 rec.)		3
SOC 200	Introductory Sociology (CT) (recommended)	
	Credit Hours	**15-16**
Second Year		
First Semester		
ENG 201	Advanced Composition	3
Core II Humanities		3
HP 240	Intro to Human Diseases in HS	3
Core II Physical/Natural Science		4
Core II Fine Arts		3
	Credit Hours	**16**
Second Semester		
Select one of the following:		3-4
PH 101	Intro to Public Health	
PH 105	Intro to Epidemiology	
PH 270	Global Health (CT)	
BSC 120 & BSC 120L	Principles of Biology I and Principles of Biology I Lab	
BSC 250	Microbiol & Human Disease	
DTS 210	Nutrition	
HP 480	Special Topics in HP	
ECN 200	Survey of Economics	
HP 210	Health Sciences Seminar	3
SWK 203	Intro To Social Work	3
Restricted Elective		3
Free Elective		3
	Credit Hours	**15-16**
Third Year		
First Semester		
STA 225	Introductory Statistics (CT)	3
Restricted Elective		4
300/400 Restricted Elective		3
300/400 Restricted Elective		3
Free Elective		3
	Credit Hours	**16**
Second Semester		
HP 320	Intro to Res in Health Prof (WI)	3
300/400 Restricted Elective		3
300/400 Restricted Elective		3
Restricted Elective		3
Free Elective		3
	Credit Hours	**15**
Fourth Year		
First Semester		
HP 420	Allied Health Sciences Admin (WI)	3
300/400 Restricted Elective		3
Restricted Elective		3
Restricted Elective		3
Free Elective		3
	Credit Hours	**15**
Second Semester		
HP 490	Capstone	3-6
300/400 Restricted Elective		3
Restricted Elective		3
Free Elective		3
	Credit Hours	**12-15**
	Total Credit Hours	**120-125**

Kinesiology

Contacts: Dr. Gary McIlvain, Chair

The School of Kinesiology offers bachelor's degrees in a variety of health professions including biomechanics, exercise science, and sport management. In addition, a 3+2 program in athletic training is offered, which begins at the bachelor's level and leads to a Master of Science in Athletic Training. All program-related courses must be taken for a letter grade and cannot be taken under the credit/no credit grading option.

Programs

- Athletic Training (3+2) (p. 521)
- Biomechanics, B.S. (p. 526)
- Exercise Science, B.S. (p. 529)
- Exercise Science, Minor (p. 534)
- Health and Wellness, Minor (p. 534)

Courses

- General Education Course

Exercise Science and Sport

ESS 123 Phys Ability Motor Skills **1 Credit hour**
Attributes: PE Activity
Grade Mode: Normal Grading Mode

ESS 124 Fundamentals of Movement **1 Credit hour**
Attributes: PE Activity
Grade Mode: Normal Grading Mode

ESS 211 Physiology of Fitness **3 Credit hours**
The student will gain knowledge of behavior change, components of exercise sessions, cardinal principles of conditioning, basics of fitness programming, and instructing individual and group exercise sessions. The student will gain knowledge of behavior change, components of exercise sessions, cardinal principles of conditioning, basics of fitness programming, and instructing individual and group exercise sessions.
Grade Mode: Normal Grading Mode

ESS 215 Intro to Exercise Science **3 Credit hours**
Introductory overview of the current trends and theories in exercise science. Preview the body systems, exercise training, and preparation for professional certification and careers in exercise science.
Grade Mode: Normal Grading Mode

ESS 220 Fitness and Wellness **3 Credit hours**
Course addresses fitness and weight control and modes of change. Primary focus is on goals in nutrition, label identification, nutrient assessment, weight control, and fitness and how to reach them safely.
Grade Mode: Normal Grading Mode

ESS 295 Adult Fitness Prog Indust **2 Credit hours**
Grade Mode: Normal Grading Mode

ESS 301 Phil Sport & Phys Activity **3 Credit hours**
Development of philosophic reasoning skills to better understand the role that philosophy plays in our understanding and conception of physical activity and sport. Development of philosophic reasoning skills to better understand the role that philosophy plays in our understanding and conception of physical activity and sport.
Grade Mode: Normal Grading Mode

ESS 345 Exercise Physiology **3 Credit hours**
Focuses on physiological and functional alterations in response to acute and chronic exercise with emphasis on metabolic, neuroendocrine, neuromuscular, cardiopulmonary, and environmental adaptations. Focuses on physiological and functional alterations in response to acute and chronic exercise with emphasis on metabolic, neuroendocrine, neuromuscular, cardiopulmonary, and environmental adaptations.
Pre-req: BSC 228 with a minimum grade of C.
Grade Mode: Normal Grading Mode

ESS 346 Exercise Physiology Lab **2 Credit hours**
Laboratory course that demonstrates and reinforces concepts pertaining to the effects of exercise on physiological systems. Laboratory course that demonstrates and reinforces concepts pertaining to the effects of exercise on physiological systems.
Pre-req: ESS 345 (may be taken concurrently).
Concurrent PR: ESS 345
Grade Mode: Normal Grading Mode

ESS 365 Tests & Measurements PE **3 Credit hours**
Grade Mode: Normal Grading Mode

ESS 375 Fitness Assess & Exerc Prescr **3 Credit hours**
Focuses on the processes and procedures of physical fitness evaluation and prescription. Emphasis is placed on the design of individual and group exercise programs. Focuses on the processes and procedures of physical fitness evaluation and prescription. Emphasis is placed on the design of individual and group exercise programs.
Pre-req: ESS 345 with a minimum grade of C.
Grade Mode: Normal Grading Mode

ESS 385 Devel Adult Fitness Prog **3 Credit hours**
Pre-req: ESS 345.
Grade Mode: Normal Grading Mode

ESS 386 Adult Fitness **3 Credit hours**
Discuss health risk appraisal and exercise benefits of commonly seen pathophysiology among the U.S. adults.
Pre-req: ESS 345 with a minimum grade of C.
Grade Mode: Normal Grading Mode

ESS 418 Ancient & Medi Sport History **3 Credit hours**
An in-depth investigation of the role of sport in ancient and medieval societies. The course focuses on ancient Greece, Rome, and medieval Europe, but will also briefly cover non-Western cultures. An in-depth investigation of the role of sport in ancient and medieval societies. The course focuses on ancient Greece, Rome, and medieval Europe, but will also briefly cover non-Western cultures.
Attributes: Multicultural
Grade Mode: Normal Grading Mode

ESS 427 Methods Coaching Football **2 Credit hours**
Grade Mode: Normal Grading Mode

ESS 428 Methods Coaching Baseball **2 Credit hours**
Grade Mode: Normal Grading Mode

ESS 429 Methods Coaching Golf **2 Credit hours**
Grade Mode: Normal Grading Mode

ESS 436 Methods Coaching Tennis **2 Credit hours**
Grade Mode: Normal Grading Mode

ESS 437 Method Coach Volleyball **2 Credit hours**
Grade Mode: Normal Grading Mode

ESS 442 Princ of Strength & Cond **3 Credit hours**
Application of strength and conditioning principles in the development and administration of sport-based exercise programs. Emphasis on the teaching of flexibility, powerlifting, Olympic weightlifting, and speed and agility programs. Application of strength and conditioning principles in the development and administration of sport-based exercise programs. Emphasis on the teaching of flexibility, powerlifting, Olympic weightlifting, and speed and agility programs.
Pre-req: HS 365 with a minimum grade of D.
Grade Mode: Normal Grading Mode

ESS 443 Prin of Strength Cond Lab **1 Credit hour**
Laboratory course that demonstrates strength and conditioning skills. Practical application of strength and conditioning principles with emphasis on the teaching of flexibility, powerlifting, Olympic weightlifting, and speed and agility programs. Laboratory course that demonstrates strength and conditioning skills. Practical application of strength and conditioning principles with emphasis on the teaching of flexibility, powerlifting, Olympic weightlifting, and speed and agility programs.
Pre-req: ESS 345 with a minimum grade of D or ESS 321 with a minimum grade of D.
Co-req: ESS 442
Grade Mode: Normal Grading Mode

ESS 447 Advanced Exercise Physiology **3 Credit hours**
The course in Advanced Exercise Physiology will focus on the detailed study of the cardiovascular, endocrine, immune, neuromuscular, and respiratory systems in response to acute and chronic exercise. The course in Advanced Exercise Physiology will focus on the detailed study of the cardiovascular, endocrine, immune, neuromuscular, and respiratory systems in response to acute and chronic exercise.
Pre-req: ESS 345.
Grade Mode: Normal Grading Mode

ESS 476 Theo Prac Aspect Coaching **3 Credit hours**
Grade Mode: Normal Grading Mode

ESS 478 Exercise Metabolism **3 Credit hours**
Pre-req: ESS 345 with a minimum grade of C.
Grade Mode: Normal Grading Mode

ESS 480 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

ESS 481 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

ESS 482 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

ESS 483 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

ESS 485 Independent Study **1-4 Credit hours**
Grade Mode: Normal Grading Mode

ESS 486 Independent Study **1-4 Credit hours**
Grade Mode: Normal Grading Mode

ESS 487 Independent Study **1-4 Credit hours**
Grade Mode: Normal Grading Mode

ESS 488 Independent Study **1-4 Credit hours**
Grade Mode: Normal Grading Mode

ESS 491 Internship Exercise Science **1-12 Credit hours**
Field internship experience.
Pre-req: ESS 375 with a minimum grade of C.
Attributes: Capstone Course, No Textbook Required
Grade Mode: Normal Grading Mode

Health Science

HS 122 First Aid Child & Infants **1 Credit hour**
Grade Mode: Normal Grading Mode

HS 200 Comp Medical Terminology (CT) **3 Credit hours**
This course is designed to introduce students to basic medical terminology and basic pharmacology. This course is designed to introduce students to basic medical terminology and basic pharmacology.
Attributes: Critical Thinking
Grade Mode: Normal Grading Mode

HS 201 Intro Appl Anat & Physiol **3 Credit hours**
Focuses on basic anatomy and physiology as applied to physical activity. Focuses on basic anatomy and physiology as applied to physical activity.
Grade Mode: Normal Grading Mode

HS 212 Practical & Emerging Tech AT **3 Credit hours**
This course introduces students to taping, wrapping, and advanced emergency care techniques used in athletic training. (PR: Admission to the Athletic Training Program)
Grade Mode: Normal Grading Mode

HS 215 Intro to Athletic Training **3 Credit hours**
Survey and study of the basic techniques and practices of athletic training.
Pre-req: HS 200 (may be taken concurrently) with a minimum grade of D or HS 201 (may be taken concurrently) with a minimum grade of D or HS 222 (may be taken concurrently) with a minimum grade of D or BSC 227 (may be taken concurrently) with a minimum grade of D or BSC 332 (may be taken concurrently) with a minimum grade of D.
Concurrent PR: HS 200 or HS 201 or HS 222 or BSC 227 or BSC 332
Grade Mode: Normal Grading Mode

HS 220 Personal Health **3 Credit hours**
A survey course that focuses upon wellness promotion and prevention of various health problems.
Grade Mode: Normal Grading Mode

HS 221 Personal Health II **3 Credit hours**
An examination of the health content areas of mental/emotional health, substance use/abuse, and human sexuality/family life education.
Grade Mode: Normal Grading Mode

HS 222 Hlth Prov First Aid/CPR/AED **3 Credit hours**
First Aid, CPR, and AED skills for health care providers. Additional topics include musculoskeletal injuries, environmental conditions, and sudden illness.
Grade Mode: Normal Grading Mode

HS 230 Orthopedic Skills **3 Credit hours**
An intensive hands-on course for allied health majors that introduces the orthopedic assessment and testing skills needed to perform effective evaluations on the field and in the clinical setting.
Grade Mode: Normal Grading Mode

HS 235 Intro to Worksite Wellness **3 Credit hours**
An introduction to worksite wellness programming including the basic components of an effective wellness program and how to integrate wellness into corporate culture.
Grade Mode: Normal Grading Mode

HS 255 AT Clinical Exp: Level I **2 Credit hours**
To begin developing athletic training evaluation and treatment skills under the direction of a BOC certified Athletic Trainer. Requires 150 clinical hours. (CR: Admission to the Athletic Training Program)
Pre-req: HS 215.
Grade Mode: Normal Grading Mode

HS 265 Fund Video Analysis Mvmt (CT) **3 Credit hours**
Fundamental concepts and techniques for analyzing human movement during sport, exercise, and occupation. Students will develop qualitative and video-based analysis skills as used in sports science labs and rehabilitation clinics.
Attributes: Critical Thinking
Grade Mode: Normal Grading Mode

HS 280 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

HS 281 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

HS 282 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

HS 283 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

HS 321 School Health Program **3 Credit hours**
Pre-req: HS 221 or HE 221 or HS 220 or HE 220.
Grade Mode: Normal Grading Mode

HS 335 Worksite Health Assessment **3 Credit hours**
An investigation into worksite health assessment models and modes.
Pre-req: HS 235 with a minimum grade of C.
Grade Mode: Normal Grading Mode

HS 336 Org & Admin Worksite Wellness **3 Credit hours**
This is a course that investigates current trends in worksite wellness organization & administration and provides instruction of wellness and prevention interventions into corporate culture and business plans.
Pre-req: HS 235 with a minimum grade of C.
Grade Mode: Normal Grading Mode

HS 345 Worksite Wellness Prescription **3 Credit hours**
This is a course that investigates prescription of worksite wellness programming based on data collection methods and current industry Best Practices for wellness interventions.
Pre-req: HS 336 with a minimum grade of C.
Grade Mode: Normal Grading Mode

HS 346 Eval Worksite Wellness Program **3 Credit hours**
This course investigates the effectiveness of worksite wellness programming. Students will understand what components of a program should be evaluated and how to calculate return on investment for intervention.
Pre-req: HS 336 with a minimum grade of C.
Grade Mode: Normal Grading Mode

HS 360 AT Clinical Exp: Level II **2 Credit hours**
To continue developing athletic training evaulation and treatment skills under the direction of a BOC certified Athletic Trainer. Requires 150 clinical hours. (PR: HS255)
Pre-req: HS 255.
Grade Mode: Normal Grading Mode

HS 361 AT Clinical Exp: Level III **2 Credit hours**
To continue developing athletic training evaluation and treatment skills under the direction of a BOC certified Athletic Trainer and/or other qualified allied health professionals. Requires 150 clinical hours. (PR: HS360)
Pre-req: HS 360.
Grade Mode: Normal Grading Mode

HS 365 Functional Kinesiology **3 Credit hours**
Applied anatomy of the human musculature and biomechanics in relation to physical activity.
Pre-req: BSC 227 with a minimum grade of D or HS 201 with a minimum grade of D.
Grade Mode: Normal Grading Mode

HS 369 Motor Learning **3 Credit hours**
A study of the factors contributing to the acquisition, improvement and retention of gross motor skills. Stages of motor development and learning will be examined from a behavioral approach.
Grade Mode: Normal Grading Mode

HS 405 Sport Psychology **3 Credit hours**
An examination of theory, research, and application of psychological principles related to sport and exercise.
Pre-req: PSY 201 with a minimum grade of D or PSY 201H with a minimum grade of D.
Grade Mode: Normal Grading Mode

HS 410 Organ Admin in Athletic Trng **3 Credit hours**
This is a course that investigates current trends in administration and organization in the field of athletic training. This is a course that investigates current trends in administration and organization in the field of athletic training.
Pre-req: HS 215.
Grade Mode: Normal Grading Mode

HS 423 Ortho Assess Upper Extremity **4 Credit hours**
Orthopedic evaluation techniques of the thoracic and cervical spines and the upper extremities. Anatomy, injury recognition, stress and special testing, treatment protocols, and preventative measure will be examined.
Pre-req: HS 215.
Grade Mode: Normal Grading Mode

HS 424 Ortho Assess Lower Extremity **4 Credit hours**
Orthopedic evaluation techniques of the lumbar spine and the lower extremities. Anatomy, injury recognition, stress and special testing, treatment protocols, and preventative measures will be examined.
Pre-req: HS 215.
Grade Mode: Normal Grading Mode

HS 430 Health Iss in PE & Ath **3 Credit hours**
Grade Mode: Normal Grading Mode

HS 435 Biomech Programs Applications **3 Credit hours**
Students will develop computer programming skills by designing and writing code to process and analyze the biomechanical data they collect. Students will transfer the functions they write to various applications.
Pre-req: HS 365 with a minimum grade of D and PHY 203 (may be taken concurrently) with a minimum grade of D and PHY 204 (may be taken concurrently) with a minimum grade of D.
Concurrent PR: PHY 203 and PHY 204
Grade Mode: Normal Grading Mode

HS 440 Health Eval Ath Trn I **3 Credit hours**
Pre-req: HS 423.
Grade Mode: Normal Grading Mode

HS 448 Therapeutic Interventions I **4 Credit hours**
Therapeutic modality application in the initial stages of injury, and modality and therapeutic exercise selection and prescription based upon patient responses for injuries to the lower extremity and lumbar spine.
Pre-req: HS 215.
Grade Mode: Normal Grading Mode

HS 449 Therapeutic Interventions II **4 Credit hours**
Instruction of electrical stimulation modalities and therapeutic exercise rehabilitation of the upper extremity and cervical spine, including post-surgical rehabilitation. Strategies for psychosocial intervention will also be addressed. (PR: HS 448)
Pre-req: HS 448.
Grade Mode: Normal Grading Mode

HS 460 AT Clinical Exp: Level IV **2 Credit hours**
To continue developing athletic training evaluation and treatment skills under the direction of a BOC certified Athletic Trainer and/or other qualified allied health professionals. Requires 150 clinical hours. (PR: HS361)
Pre-req: HS 361.
Grade Mode: Normal Grading Mode

HS 464 Pathomechanics **3 Credit hours**
An investigation into normal and abnormal human movement patterns in sport, the workplace, and in activities of daily living. An investigation into normal and abnormal human movement patterns in sport, the workplace, and in activities of daily living.
Pre-req: HS 365 with a minimum grade of D and HS 465 with a minimum grade of D.
Grade Mode: Normal Grading Mode

HS 465 Biomechanical Analy of Mvmt **3 Credit hours**
An investigation into the science of human motion and its relationship to the envirionment in which it is performed.
Pre-req: HS 365 with a minimum grade of D and PHY 201 with a minimum grade of D and PHY 202 with a minimum grade of D.
Grade Mode: Normal Grading Mode

HS 475 Trends in Biomechanics **3 Credit hours**
Pre-req: HS 465 with a minimum grade of D and HS 365 with a minimum grade of D.
Grade Mode: Normal Grading Mode

HS 478 Research Practicum Biomechanic **3-6 Credit hours**
This course offers "hands-on" work within the biomechanics lab. The student will assist with current research. This experience that allows students to gain practical experience within a lab setting.
Pre-req: BSC 227 with a minimum grade of D.
Grade Mode: Normal Grading Mode

HS 479 Trends Ath Trng **3 Credit hours**
Pre-req: HS 361.
Grade Mode: Normal Grading Mode

HS 480 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

HS 481 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

HS 482 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

HS 483 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

HS 485 Independent Study **1-4 Credit hours**
Grade Mode: Normal Grading Mode

HS 486 Independent Study **1-4 Credit hours**
Grade Mode: Normal Grading Mode

HS 487 Independent Study **1-4 Credit hours**
Grade Mode: Normal Grading Mode

HS 488 Independent Study **1-4 Credit hours**
Grade Mode: Normal Grading Mode

HS 490 Internship **1-8 Credit hours**
Supervised clinical experience in an approved setting. Can be repeated for a total of 8hrs. Capstone experience requires 3hrs minimum in one term. (PR: program permission)
Pre-req: HS 475 with a minimum grade of D.
Attributes: Capstone Course
Grade Mode: Normal Grading Mode

HS 495 Trends in Biomechanics II **3 Credit hours**
A final investigation into normal and abnormal human movement patterns in sport, the workplace, and activities of daily living.
Pre-req: HS 475 with a minimum grade of D.
Grade Mode: Normal Grading Mode

Phys Ed Lifetime Activities

PEL 100 Beginning Swimming **1 Credit hour**
Attributes: No Textbook Required, PE Activity
Grade Mode: Normal Grading Mode

PEL 113 Basketball **1 Credit hour**
Attributes: No Textbook Required, PE Activity
Grade Mode: Normal Grading Mode

PEL 114 Beginning Archery **1 Credit hour**
Attributes: PE Activity
Grade Mode: Normal Grading Mode

PEL 115 Body Condition W/Weights **1 Credit hour**
Attributes: No Textbook Required, PE Activity
Grade Mode: Normal Grading Mode

PEL 116 Beginning Wrestling **1 Credit hour**
Attributes: PE Activity
Grade Mode: Normal Grading Mode

PEL 117 Riflery **1 Credit hour**
Attributes: PE Activity
Grade Mode: Normal Grading Mode

PEL 118 Indoor Cycling **1 Credit hour**
Designed to promote fitness through spinning.
Attributes: No Textbook Required
Grade Mode: Normal Grading Mode

PEL 119 Total Body Conditioning **1 Credit hour**
Designed to help instruct both men and women with a variety of lifetime fitness activities.
Grade Mode: Normal Grading Mode

PEL 120 Self Defense **1 Credit hour**
Attributes: No Textbook Required, PE Activity
Grade Mode: Normal Grading Mode

PEL 121 Taekwondo **2 Credit hours**
Attributes: No Textbook Required, PE Activity
Grade Mode: Normal Grading Mode

PEL 125 Beginning Gymnastics **1 Credit hour**
Attributes: PE Activity
Grade Mode: Normal Grading Mode

PEL 127 Aerobics-Personal Fitness **1 Credit hour**
Attributes: PE Activity
Grade Mode: Normal Grading Mode

PEL 132 Beginning Volleyball **1 Credit hour**
Attributes: No Textbook Required, PE Activity
Grade Mode: Normal Grading Mode

PEL 133 Beginning Softball **1 Credit hour**
Attributes: No Textbook Required, PE Activity
Grade Mode: Normal Grading Mode

PEL 140 Beginning Tennis **1 Credit hour**
Attributes: No Textbook Required, PE Activity
Grade Mode: Normal Grading Mode

PEL 141 Beginning Golf **1 Credit hour**
Attributes: PE Activity
Grade Mode: Normal Grading Mode

PEL 142 Beginning Badminton **1 Credit hour**
Attributes: No Textbook Required, PE Activity
Grade Mode: Normal Grading Mode

PEL 145 Beginning Bowling **1 Credit hour**
Attributes: PE Activity
Grade Mode: Normal Grading Mode

PEL 147 Beginning Soccer **1 Credit hour**
Attributes: No Textbook Required, PE Activity
Grade Mode: Normal Grading Mode

PEL 155 Beginning Folk Dance **1 Credit hour**
Attributes: PE Activity
Grade Mode: Normal Grading Mode

PEL 156 Beginning Square Dance **1 Credit hour**
Attributes: PE Activity
Grade Mode: Normal Grading Mode

PEL 159 Beginning Social Dance **1 Credit hour**
Attributes: PE Activity
Grade Mode: Normal Grading Mode

PEL 170 Beginning Racquetball **1 Credit hour**
Attributes: No Textbook Required, PE Activity
Grade Mode: Normal Grading Mode

PEL 171 Beginning Handball **1 Credit hour**
Attributes: PE Activity
Grade Mode: Normal Grading Mode

PEL 173 Rock Climbing **1 Credit hour**
Through activity, the students will learn the fundamentals and techniques of rock climbing.
Attributes: No Textbook Required, PE Activity
Grade Mode: Normal Grading Mode

PEL 175 Core Conditioning **1 Credit hour**
Designed to help instruct both men and women on numerous activities to help strengthen the abdominal region of the body which can then be incorporated into their workout program.
Attributes: No Textbook Required, PE Activity
Grade Mode: Normal Grading Mode

PEL 180 Yoga **1 Credit hour**
Attributes: No Textbook Required, PE Activity
Grade Mode: Normal Grading Mode

PEL 205 Intermediate Swimming **1 Credit hour**
Attributes: No Textbook Required, PE Activity
Grade Mode: Normal Grading Mode

PEL 220 Advanced Self Defense **1 Credit hour**
Builds on techniques and strategies from PEL 120, adds defenses against the edged weapon and firearm. Course covers more prone defense strategies, multiple subject encounters and low and diffused light simulation.
Pre-req: PEL 120 with a minimum grade of D.
Attributes: No Textbook Required, PE Activity
Grade Mode: Normal Grading Mode

PEL 232 Intermediate Volleyball **1 Credit hour**
Attributes: No Textbook Required, PE Activity
Grade Mode: Normal Grading Mode

PEL 233 Intermediate Gymnastics **1 Credit hour**
Attributes: PE Activity
Grade Mode: Normal Grading Mode

PEL 234 Intermediate Wrestling **1 Credit hour**
Attributes: PE Activity
Grade Mode: Normal Grading Mode

PEL 235 Intermediate Softball **1 Credit hour**
Attributes: PE Activity
Grade Mode: Normal Grading Mode

PEL 240 Intermediate Tennis **1 Credit hour**
Attributes: PE Activity
Grade Mode: Normal Grading Mode

PEL 242 Intermediate Badminton **1 Credit hour**
Attributes: PE Activity
Grade Mode: Normal Grading Mode

PEL 243 Intermediate Basketball **1 Credit hour**
Attributes: PE Activity
Grade Mode: Normal Grading Mode

PEL 245 Intermediate Bowling **1 Credit hour**
Attributes: PE Activity
Grade Mode: Normal Grading Mode

PEL 251 Intermediate Soccer **1 Credit hour**
Attributes: No Textbook Required, PE Activity
Grade Mode: Normal Grading Mode

PEL 252 Touch Football **1 Credit hour**
Attributes: No Textbook Required, PE Activity
Grade Mode: Normal Grading Mode

PEL 258 Intermediate Square Dance **1 Credit hour**
Attributes: PE Activity
Grade Mode: Normal Grading Mode

PEL 259 Intermediate Social Dance **1 Credit hour**
Attributes: PE Activity
Grade Mode: Normal Grading Mode

PEL 270 Intermediate Racquetball **1 Credit hour**
Attributes: PE Activity
Grade Mode: Normal Grading Mode

PEL 271 Intermediate Handball **1 Credit hour**
Attributes: PE Activity
Grade Mode: Normal Grading Mode

PEL 275 Scuba Diving **2 Credit hours**
Attributes: PE Activity
Grade Mode: Normal Grading Mode

PEL 280 Special Topics **1-4 Credit hours**
Attributes: No Textbook Required, PE Activity
Grade Mode: Normal Grading Mode

PEL 281 Special Topics **1-4 Credit hours**
Attributes: No Textbook Required, PE Activity
Grade Mode: Normal Grading Mode

PEL 282 Special Topics **1-4 Credit hours**
Attributes: No Textbook Required, PE Activity
Grade Mode: Normal Grading Mode

PEL 283 Special Topics **1-4 Credit hours**
Attributes: No Textbook Required, PE Activity
Grade Mode: Normal Grading Mode

PEL 290 Intermediate Yoga **1 Credit hour**
This course is an intermediate yoga class building off of beginning yoga. It will focus on poses, breathing, relaxation, and meditation.
Pre-req: PEL 180 with a minimum grade of D.
Grade Mode: Normal Grading Mode

PEL 403 Adv Swim & Life Saving **1 Credit hour**
Attributes: PE Activity
Grade Mode: Normal Grading Mode

PEL 404 Water Safety Instruction **1 Credit hour**
Attributes: PE Activity
Grade Mode: Normal Grading Mode

PEL 405 Lifeguarding **1 Credit hour**
Attributes: No Textbook Required, PE Activity
Grade Mode: Normal Grading Mode

Faculty

Professors
McIlvain, Konz

Associate Professors
Garrett, Powell, Toma, Timmons

Assistant Professors
Leigh, Johnson

Athletic Training (3+2)

Athletic training is practiced by athletic trainers, health care professionals who collaborate with physicians to optimize activity and participation of patients and clients. Athletic training encompasses the prevention, diagnosis, and intervention of emergency, acute, and chronic medical conditions involving impairment, functional limitations, and disabilities (www.NATA.org (http://www.NATA.org)).

Students who wish to complete the Athletic Training Program (ATP) will begin at the undergraduate level for the first three years and complete the foundation courses that serve as prerequisites to apply to the program. Once completing these courses the student will apply to the program and, if accepted, will directly be admitted into the program which will allow them to finish in two years, thus completing the Professional Master of Science in Athletic Training degree.

Specifically, during the first three years at MU, students will be taking required core courses and Athletic Training prerequisite courses (i.e., anatomy, physiology, kinesiology, exercise physiology, etc.), in addition to courses required to apply to graduate and other professional programs the student may be interested in pursuing. During the final two years and assuming that the student has applied and been accepted into the ATP, he/she will then enroll in the required Athletic Training core courses. The M.S. in Athletic Training prepares students to become entry-level athletic trainers and qualifies them to take the BOC Exam (national board exam). The ATP is a rigorous academic program that includes coursework in athletic training and other science-related courses, in addition to required clinical education experiences.

A degree in Athletic Training offers graduates opportunities to practice in a variety of clinical settings. These settings include, but are not limited to, high school, college, and professional athletics; outpatient clinics; industrial rehabilitation sites; physician practices; the performing arts; safety settings, and higher education. The Athletic Training curriculum includes eight areas of emphasis: Comprehensive, Health Communication, Pre-Med, Pre-Physical Therapy, Pre-Physician's Assistant, Occupational Safety and Health, Pre-Chiropractic, and Safety.

Admission Criteria

Acceptance into the Athletic Training program is competitive and not guaranteed. Prospective students must meet the following minimum criteria to be considered for admission to the program:

- Admission to Marshall University;
- Declared Athletic Training as a major, including area of emphasis;
- An overall minimum cumulative GPA of 2.75.
- A letter grade of *C* or better on all required prerequisite athletic training coursework:

Code	Title	Credit Hours
BSC 227 & BSC 227L	Human Anatomy and Human Anatomy Lab	4
BSC 228 & BSC 228L	Human Physiology and Human Physiology Lab	4
DTS 210	Nutrition	3
EDF 417	Statistical Methods (or equivalent)	3
ESS 345	Exercise Physiology	3
HS 200	Comp Medical Terminology (CT)	3
HS 215	Intro to Athletic Training	3
HS 220	Personal Health	3
HS 222	Hlth Prov First Aid/CPR/AED	3
HS 365	Functional Kinesiology	3
PSY 201	Introductory Psychology (CT)	3

- Completion of all required MU core courses
- Completion of a minimum of 90 credit hours
- Submit all necessary documents to apply to the Athletic Training Program. For information and details go to www.marshall.edu/athletic-training (http://www.marshall.edu/athletic-training/).
- Completion of directed observation experience requirements as outlined by the Marshall University ATP
- Successful interview (*Note*: interviews are extended during the spring semester with applications due in early March)
- Ability to meet the Technical Standards of Admission documented by a licensed physician

- General Education Course

- Milestone course: a key success marker for your major. See your advisor to discuss the importance of this course in your plan of study.

Major

Prerequisites

Prospective students must have already taken or be currently enrolled in the following when applying to the Athletic Training Program.

Code	Title	Credit Hours
Prerequisites		
All required MU core courses		
BSC 227	Human Anatomy (or equivalent)	3
BSC 227L	Human Anatomy Lab	1
BSC 228	Human Physiology	3
BSC 228L	Human Physiology Lab	1

DTS 210	Nutrition	3
Statistics		
Select one of the following:		
BSC 417	Biostatistics	
EDF 417	Statistical Methods	
PSY 417	Inter Behavioral Stat	
STA 225	Introductory Statistics (CT)	
ESS 345	Exercise Physiology	3
HS 200	Comp Medical Terminology (CT)	3
HS 215	Intro to Athletic Training	3
HS 220	Personal Health	3
HS 222	Hlth Prov First Aid/CPR/AED	3
HS 365	Functional Kinesiology	3
PSY 201	Introductory Psychology (CT)	3

Recommended Courses

Code	Title	Credit Hours
Ethics (Sport or Medical Ethics)		
Global Health		
Intro to Epidemiology		
Exercise Testing		
Sport Law		
Strength & Conditioning		

Areas of Emphasis

The Area of Emphasis must be completed prior to applying for the Professional Master of Science in Athletic Training degree. For additional information and details on the program, including the Athletic Training courses and the clinical education experiences that are required once admitted to the Athletic Training program, please refer to the *Graduate Catalog*.

Areas of Emphasis

- Athletic Training Comprehensive, Emphasis (p. 522)
- Athletic Training Health Communication, Emphasis (p. 524)
- Athletic Training Occupational Safety & Health, Emphasis (p. 524)
- Athletic Training Pre-Chiropractic, Emphasis (p. 524)
- Athletic Training Pre-Med, Emphasis (p. 525)
- Athletic Training Pre-Physical Therapy, Emphasis (p. 525)
- Athletic Training Pre-Physician's Assistant, Emphasis (p. 525)
- Athletic Training Safety, Emphasis (p. 526)

Athletic Training Comprehensive, Emphasis

- General Education Course

- Milestone course: a key success marker for your major. See your advisor to discuss the importance of this course in your plan of study.

Major

The Core Curriculum is designed to foster critical thinking skills and introduce students to basic domains of thinking that transcend disciplines. The Core applies to all majors. Information on specific classes in the Core can be found at https://www.marshall.edu/gened/.

Code	Title	Credit Hours
Core Curriculum		
Core 1: Critical Thinking		
FYS 100	First Yr Sem Critical Thinking	3
HS 200	Comp Medical Terminology (CT)	3
PSY 201	Introductory Psychology (CT)	3
Core 2		
ENG 101	Beginning Composition	3
ENG 201	Advanced Composition	3
Core II Communications		3
Core II Mathematics		3
BSC 228 & BSC 228L	Human Physiology and Human Physiology Lab	4
Core II Humanities		3
PSY 201	Introductory Psychology (CT)	3
Core II Fine Arts		3
MUS 142	Music in Society (recommended)	
Additional University Requirements		
Writing Intensive		3
Writing Intensive		3
SOC 200	Introductory Sociology (CT) (Multicultural or International)	3
Major-Specific		
BSC 227 & BSC 227L	Human Anatomy and Human Anatomy Lab	4
DTS 210	Nutrition	3
Statistics		3
Physics		3
ESS 345	Exercise Physiology	3
HS 200	Comp Medical Terminology (CT)	3
ESS 442	Princ of Strength & Cond	3
HS 212	Practical & Emerging Tech AT	3
HS 215	Intro to Athletic Training	3
HS 220	Personal Health	3
HS 221	Personal Health II	3
HS 222	Hlth Prov First Aid/CPR/AED	3
HS 230	Orthopedic Skills	3
HS 365	Functional Kinesiology	3
Yr 1 Summer III AT graduate classes		6
Yr 1 Semester 1 AT graduate classes		12
Yr 1 Semester 2 AT graduate classes		12
Area of Emphasis-Specific		
Students will complete 9 credit hours of restricted electives in addition to the core courses. Restricted electives must be approved by advisor.		
AoE Restricted Elective (Biology)		
Select one of the following:		3

BSC 120 & BSC 120L	Principles of Biology I and Principles of Biology I Lab	
BSC 121 & BSC 121L	Principles of Biology II and Prin of Biology II Lab	
BSC 250	Microbiol & Human Disease	
BSC 322	Principles Cell Biology	
BSC 320	Principles of Ecology	
BSC 302	Principles of Microbiology	
BSC 438	Emerging Infectious Diseases	
AoE Restricted Elective (Chemistry)		
Select one of the following:		3
CHM 205	General, Organic, and Biochem	
CHM 211	Principles of Chemistry I	
CHM 212	Principles Chemistry II	
CHM 217	Principles of Chem Lab I	
CHM 218	Principles of Chem Lab II	
AoE Restricted Elective		
Select one of the following:		3
COUN 455	Crisis Inter & Conf Res	
COUN 456	Death & Grief Coun	
COUN 477	Stress Management Couns	
PSY 408	Abnormal Psychology	
PSY 201	Introductory Psychology (CT)	
PSY 204	Psychology of Adjustment	
PSY 312	Adult Development	
PSY 323	Experimental Psychology	
SFT 235	Intro to Occup Safety (CT)	
ESS 220	Fitness and Wellness	
HS 369	Motor Learning	
HS 430	Health Iss in PE & Ath	
HS 435	Biomech Programs Applications	
ESS 442	Princ of Strength & Cond	
ESS 447	Advanced Exercise Physiology	
ESS 478	Exercise Metabolism	
HS 201	Intro Appl Anat & Physiol	
HS 221	Personal Health II	
HS 430	Health Iss in PE & Ath	
Any declared minor approved by advisor		
Free Elective		3
Free Elective		3

Major Information

- Students are required to know and track their degree requirements for graduation or for entrance to a professional school.
- Course offerings and course attributes are subject to change semesters. Please consult each semesters schedule of courses for availability and attributes.
- Acceptance into the Athletic Training program is competitive and not guaranteed. Prospective students must meet the following minimum criteria to be considered for admission to the program:
  - Admission to Marshall University;
  - Declared Athletic Training as a major, including area of emphasis;
  - An overall minimum cumulative GPA of 3.0. For students planning to apply in Spring, a letter grade of *"C"* or better on all required prerequisite athletic training coursework.
  - Completion of all required MU core courses.
  - Completion of a minimum of 90 credit hours.
  - Completion of directed observation experience requirements as outlined by the Marshall University ATP.
  - Successful interview (*Note*: interviews are extended during the spring semester with applications due in early March)
  - Ability to meet the Technical Standards of Admission documented by a licensed physician.

- General Education Course

- Milestone course: a key success marker for your major. See your advisor to discuss the importance of this course in your plan of study.

Four Year Plan

Athletic training is practiced by athletic trainers, health care professionals who collaborate with physicians to optimize activity and participation of patients and clients. Athletic training encompasses the prevention, diagnosis, and intervention of emergency, acute, and chronic medical conditions involving impairment, functional limitations, and disabilities (www.NATA.org (http://www.NATA.org)). Students who wish to complete the Athletic Training Program (ATP) will begin at the undergraduate level for the first three years and complete the foundation courses that serve as prerequisites to apply to the program. Once completing these courses the student will apply to the program and, if accepted, will directly be admitted into the program which will allow them to finish in two years.

Course	Title	Credit Hours
First Year		
First Semester		
HS 200	Comp Medical Terminology (CT)	3
HS 220	Personal Health	3
ENG 101	Beginning Composition	3
FYS 100	First Yr Sem Critical Thinking	3
Core II Mathematics		3
UNI 100	Freshman First Class	1
	Credit Hours	**16**
Second Semester		
ENG 201	Advanced Composition	3
HS 221	Personal Health II	3
Core II Communications		3
PSY 201	Introductory Psychology (CT)	3
AoE Restricted Elective (Chemistry)		3
	Credit Hours	**15**
Second Year		
First Semester		
BSC 227 & BSC 227L	Human Anatomy and Human Anatomy Lab	4

DTS 210	Nutrition	3
HS 222	Hlth Prov First Aid/CPR/AED	3
Physics		3
Writing Intensive		3
	Credit Hours	**16**
Second Semester		
BSC 228 & BSC 228L	Human Physiology and Human Physiology Lab	4
HS 215	Intro to Athletic Training	3
SOC 200	Introductory Sociology (CT) (MC)	3
Core II Fine Arts		3
MUS 142	Music in Society (recommended)	
Free Elective		3
	Credit Hours	**16**
Third Year		
First Semester		
ESS 345	Exercise Physiology	3
HS 212	Practical & Emerging Tech AT	3
HS 365	Functional Kinesiology	3
AoE Restricted Elective (Biology)		3
AoE Restricted Elective		3
	Credit Hours	**15**
Second Semester		
ESS 442	Princ of Strength & Cond	3
HS 230	Orthopedic Skills	3
Core II Humanities (WI)		3
Statistics		3
Free Elective		3
	Credit Hours	**15**
Third Semester		
Summer		
YR 1 Summer III AT graduate classes		6
	Credit Hours	**6**
Fourth Year		
First Semester		
Yr 1 Semester 1 AT graduate classes		12
	Credit Hours	**12**
Second Semester		
Yr 1 Semester 2 AT graduate classes		12
	Credit Hours	**12**
	Total Credit Hours	**123**

Athletic Training Health Communication, Emphasis

- General Education Course

- Milestone course: a key success marker for your major. See your advisor to discuss the importance of this course in your plan of study.

Major

Students will complete the following in addition to the core courses:

Code	Title	Credit Hours
CMM 303	Intro Communication Thry	3
CMM 374	Intro to Health Communication	3
CMM 411	Communication Study & Resch	3
CMM 474	Interpersonal Health Comm	3
CMM 478	Senior Seminar	3
CMM 479	Public Health Communication	3
CMM 302	Professional Presentations	3
CMM 308	Persuasive Communication	3
CMM 406	Interviewing	3
Total Credit Hours		**27**

There are no electives available for students.

Athletic Training Occupational Safety & Health, Emphasis

- General Education Course

- Milestone course: a key success marker for your major. See your advisor to discuss the importance of this course in your plan of study.

Major

Students will complete the following in addition to the core courses:

Code	Title	Credit Hours
PHY 201	College Physics I	3
PHY 202	General Physics I Laboratory	1
PHY 203	College Physics II	3
PHY 204	General Physics 2 Laboratory	1
CHM 211	Principles of Chemistry I	3
CHM 217	Principles of Chem Lab I	2
CHM 212	Principles Chemistry II	3
CHM 218	Principles of Chem Lab II	2
SFT 235	Intro to Occup Safety (CT)	3
SFT 372	Safety & Industrial Tech	3
SFT 373	Prin Ergonomics & Hum Factors	3
SFT 373L	Prin of Ergonomics Lab	1
SFT 453	International Safety & Health	3
SFT 499	Dev & Mgt of Occup Safety Prog	3
PSY 311	Child Development	3
PSY 312	Adult Development	3
Total Credit Hours		**40**

Summer School will be required to complete this degree in four years.

Athletic Training Pre-Chiropractic, Emphasis

- General Education Course

- Milestone course: a key success marker for your major. See your advisor to discuss the importance of this course in your plan of study.

Major

Students will complete the following in addition to the core courses:

Code	Title	Credit Hours
PHY 201	College Physics I	3
PHY 202	General Physics I Laboratory	1
CHM 211	Principles of Chemistry I	3
CHM 217	Principles of Chem Lab I	2
CHM 212	Principles Chemistry II	3
CHM 218	Principles of Chem Lab II	2
CHM 355	Organic Chemistry I	3
CHM 356	Organic Chemistry II	3
BSC 120 & BSC 120L	Principles of Biology I and Principles of Biology I Lab	4
BSC 121 & BSC 121L	Principles of Biology II and Prin of Biology II Lab	4
PSY 311	Child Development	3
PSY 312	Adult Development	3
Total Credit Hours		**34**

Summer School will be required to complete this degree in four years. There are no electives available for students.

Athletic Training Pre-Med, Emphasis

- General Education Course

- Milestone course: a key success marker for your major. See your advisor to discuss the importance of this course in your plan of study.

Major

Students will complete the following in addition to the core courses:

Code	Title	Credit Hours
PHY 201	College Physics I	3
PHY 202	General Physics I Laboratory	1
PHY 203	College Physics II	3
PHY 204	General Physics 2 Laboratory	1
CHM 211	Principles of Chemistry I	3
CHM 217	Principles of Chem Lab I	2
CHM 212	Principles Chemistry II	3
CHM 218	Principles of Chem Lab II	2
CHM 355	Organic Chemistry I	3
CHM 356	Organic Chemistry II	3
CHM 361	Intro Organic Chm Lab	3
BSC 120 & BSC 120L	Principles of Biology I and Principles of Biology I Lab	4
BSC 121 & BSC 121L	Principles of Biology II and Prin of Biology II Lab	4
PSY 311	Child Development	3
PSY 312	Adult Development	3
Total Credit Hours		**41**

Summer School will be required to complete this degree in four years.

Athletic Training Pre-Physical Therapy, Emphasis

- General Education Course

- Milestone course: a key success marker for your major. See your advisor to discuss the importance of this course in your plan of study.

Major

Students will complete the following in addition to the core courses:

Code	Title	Credit Hours
PHY 201	College Physics I	3
PHY 202	General Physics I Laboratory	1
PHY 203	College Physics II	3
PHY 204	General Physics 2 Laboratory	1
CHM 211	Principles of Chemistry I	3
CHM 217	Principles of Chem Lab I	2
CHM 212	Principles Chemistry II	3
CHM 218	Principles of Chem Lab II	2
PSY 311	Child Development	3
PSY 312	Adult Development	3
BSC 120 & BSC 120L	Principles of Biology I and Principles of Biology I Lab	4
BSC 121 & BSC 121L	Principles of Biology II and Prin of Biology II Lab	4
Total Credit Hours		**32**

Summer school will be required to complete this degree in four years. There are no electives available for students.

Athletic Training Pre-Physician's Assistant, Emphasis

- General Education Course

- Milestone course: a key success marker for your major. See your advisor to discuss the importance of this course in your plan of study.

Major

Students will complete the following in addition to the core courses:

Code	Title	Credit Hours
CHM 211	Principles of Chemistry I	3
CHM 217	Principles of Chem Lab I	2
CHM 212	Principles Chemistry II	3
CHM 218	Principles of Chem Lab II	2
CHM 365	Introductory Biochemistry	3
BSC 120 & BSC 120L	Principles of Biology I and Principles of Biology I Lab	4
BSC 121 & BSC 121L	Principles of Biology II and Prin of Biology II Lab	4
BSC 302	Principles of Microbiology	3
PSY 311	Child Development	3
PSY 312	Adult Development	3
Total Credit Hours		**30**

Summer School will be required to complete this degree in four years. There are no electives available for students.

Athletic Training Safety, Emphasis

- General Education Course

- Milestone course: a key success marker for your major. See your advisor to discuss the importance of this course in your plan of study.

Major

Students will complete the following in addition to the core courses:

Code	Title	Credit Hours
SFT 235	Intro to Occup Safety (CT)	3
SFT 372	Safety & Industrial Tech	3
SFT 375	Construction Safety I	3
SFT 378	Safety Eval & Measurement	3
SFT 458	Hospital Safety	3
SFT 460	Safety Training Methods	3
PSY 311	Child Development	3
PSY 312	Adult Development	3
Total Credit Hours		**24**

Biomechanics, B.S.

Biomechanics is the analysis of human movement to enhance performance, improve training, accelerate rehabilitation, and reduce injury risk. This is done by integrating various mechanical aspects of human movement during static and dynamic activities. The Biomechanics degree applies physics and math principles to study the interactions between humans and various machine systems in both working and living environments. Students will be exposed to specialized equipment to help measure the interaction of humans with their environment. Force plates and accelerometers measure forces generated by various segments of the body and then exerted externally to the body. Muscle activation is measured through electromyography. Motion analysis, using video to create three-dimensional reconstructions, measures body positions, velocities, and accelerations.

The degree in Biomechanics provides students with the background and skills needed to create work and living environments which improve human health and enhance performance. This is a fast growing healthcare related field that is undergoing an increasing demand for this type of specialization. Biomechanical scientists are found in a wide variety of settings, including research and development, universities, sports performance centers, industrial and commercial settings, sports medicine clinics, hospitals, private practice, and the military.

Admission Criteria

Prospective students must meet the minimum criteria listed below to be considered for admission to the program:

- Admission to Marshall University;
- An overall cumulative minimum GPA of 2.75 to continue in the degree program beyond the sophomore year;
- A *C* or better in all required coursework;
- Declared Biomechanics as a major, including preferred area of emphasis if applicable.

- General Education Course

- Milestone course: a key success marker for your major. See your advisor to discuss the importance of this course in your plan of study.

Major

The Core Curriculum is designed to foster critical thinking skills and introduce students to basic domains of thinking that transcend disciplines. The Core applies to all majors. Information on specific classes in the Core can be found at https://www.marshall.edu/gened/.

Code	Title	Credit Hours
Core Curriculum		
Core 1: Critical Thinking		
FYS 100	First Yr Sem Critical Thinking	3
HS 200	Comp Medical Terminology (CT)	3
PSY 201	Introductory Psychology (CT)	3
Core 2		
ENG 101	Beginning Composition	3
ENG 201	Advanced Composition	3
CMM 103	Fund Speech-Communication	3
MTH 132	Precalculus with Sci Applica	5
BSC 228	Human Physiology	3
BSC 228L	Human Physiology Lab	1
Core II Humanities (WI)		3
PSY 201	Introductory Psychology (CT)	3
Core II Fine Arts		3
MUS 142	Music in Society (recommended)	
Additional University Requirements		
Writing Intensive (WI Sec of Core II Hum)		3

Writing Intensive		3
Multicultural or International		
MUS 142	Music in Society (recommended)	
HS 475	Trends in Biomechanics (Capstone I)	3
HS 495	Trends in Biomechanics II (Capstone II)	3
Major-Specific		
BSC 227	Human Anatomy	3
BSC 227L	Human Anatomy Lab	1
BSC 228	Human Physiology	3
BSC 228L	Human Physiology Lab	1
DTS 210	Nutrition	3
ESS 220	Fitness and Wellness	3
ESS 345	Exercise Physiology	3
ESS 375	Fitness Assess & Exerc Prescr	3
STHM 401	Ethics in Sport	3
STHM 410	Leadership: Theory & Practice	3
ESS 442	Princ of Strength & Cond	3
ESS 443	Prin of Strength Cond Lab	1
HS 200	Comp Medical Terminology (CT)	3
HS 215	Intro to Athletic Training	3
HS 220	Personal Health	3
HS 222	Hlth Prov First Aid/CPR/AED	3
HS 365	Functional Kinesiology	3
HS 369	Motor Learning	3
HS 435	Biomech Programs Applications	3
HS 464	Pathomechanics	3
HS 465	Biomechanical Analy of Mvmt	3
HS 475	Trends in Biomechanics (C)	3
HS 495	Trends in Biomechanics II (C)	3
STA 225	Introductory Statistics (CT)	3
SFT 235	Intro to Occup Safety (CT)	3
SFT 373	Prin Ergonomics & Hum Factors	3
SFT 373L	Prin of Ergonomics Lab	1
PHY 201	College Physics I	3
PHY 202	General Physics I Laboratory	1
PHY 203	College Physics II	3
PHY 204	General Physics 2 Laboratory	1
PSY 311	Child Development	3
PSY 312	Adult Development	3
Free Elective (or Area of Emphasis)		3
Free Elective (or Area of Emphasis)		3
Free Elective		3

Major Information

- Students are required to know and track their degree requirements for graduation or for entrance to a professional school.
- Course offerings and course attributes are subject to change semesters. Please consult each semester's schedule of courses for availability and attributes.
- **Math Requirement:** The biomechanics math requirement is for MTH 132 Precalculus with Sci Applica only (a pre-requisite for Physics 1). Students need an ACT Math score of 24+ to be eligible for MTH 132 Precalculus with Sci Applica. For students with a lower ACT Math score, we allow them to take two courses as an alternative: Algebra (MTH 130 College Algebra with ACT 21+ or MTH 127 College Algebra-Expanded with ACT 17+) and then Trigonometry (MTH 122 Plane Trigonometry) over two semesters.

- General Education Course

- Milestone course: a key success marker for your major. See your advisor to discuss the importance of this course in your plan of study.

Four Year Plan

Biomechanics is the analysis of human movement to enhance performance, improve training, accelerate rehabilitation, and reduce injury risk. This is done by integrating various mechanical aspects of human movement during static and dynamic activities. The Biomechanics degree applies physics and math principles to study the interactions between humans and various machine systems in both working and living environments. Students will be exposed to specialized equipment to help measure the interaction of humans with their environment. Force plates and accelerometers measure forces generated by various segments of the body and then exerted externally to the body. Muscle activation is measured through electromyography. Motion analysis, using video to create three-dimensional reconstructions, measures body positions, velocities, and accelerations.

Course	Title	Credit Hours
First Year		
First Semester		
FYS 100	First Yr Sem Critical Thinking	3
ENG 101	Beginning Composition	3
HS 200	Comp Medical Terminology (CT)	3
Select one of the following:		3-5
MTH 127	College Algebra-Expanded	
MTH 130	College Algebra	
MTH 132	Precalculus with Sci Applica	
UNI 100	Freshman First Class	1
	Credit Hours	**13-15**
Second Semester		
HS 222	Hlth Prov First Aid/CPR/AED	3
Select one of the following:		3
MTH 122	Plane Trigonometry	
Free Elective/Elective [1]		
ENG 201	Advanced Composition	3
BSC 227	Human Anatomy	3
BSC 227L	Human Anatomy Lab	1
PSY 201	Introductory Psychology (CT)	3
	Credit Hours	**16**
Second Year		
First Semester		
BSC 228	Human Physiology	3
BSC 228L	Human Physiology Lab	1
HS 365	Functional Kinesiology	3
PHY 201	College Physics I	3

PHY 202	General Physics I Laboratory	1
PSY 311	Child Development	3
HS 220	Personal Health	3
	Credit Hours	**17**
Second Semester		
ESS 345	Exercise Physiology	3
PHY 203	College Physics II	3
PHY 204	General Physics 2 Laboratory	1
HS 215	Intro to Athletic Training	3
SFT 235	Intro to Occup Safety (CT)	3
PSY 312	Adult Development	3
	Credit Hours	**16**
Third Year		
First Semester		
ESS 375	Fitness Assess & Exerc Prescr	3
STHM 401	Ethics in Sport	3
HS 465	Biomechanical Analy of Mvmt	3
STA 225	Introductory Statistics (CT)	3
Core II Fine Arts		3
MUS 142	Music in Society (recommended)	
	Credit Hours	**15**
Second Semester		
ESS 220	Fitness and Wellness	3
HS 435	Biomech Programs Applications	3
HS 464	Pathomechanics	3
SFT 373	Prin Ergonomics & Hum Factors	3
SFT 373L	Prin of Ergonomics Lab	1
Core II Humanities (WI)		3
	Credit Hours	**16**
Third Semester		
Summer Term (required)		
HS 369	Motor Learning	3
	Credit Hours	**3**
Fourth Year		
First Semester		
DTS 210	Nutrition	3
ESS 442	Princ of Strength & Cond	3
ESS 443	Prin of Strength Cond Lab	1
HS 475	Trends in Biomechanics (C)	3
CMM 103	Fund Speech-Communication	3
Free Elective		3
	Credit Hours	**16**
Second Semester		
STHM 410	Leadership: Theory & Practice	3
HS 495	Trends in Biomechanics II (C)	3
Free Elective or Area of Emphasis		3
Free Elective or Area of Emphasis		3
	Credit Hours	**12**
	Total Credit Hours	**124-126**

[1] Free Elective if MTH 132 Precalculus with Sci Applica is completed in Fall

Areas of Emphasis

- Biomechanics Physics, Emphasis (p. 528)
- Biomechanics Pre-Medical, Emphasis (p. 528)
- Biomechanics Pre-Physical Therapy, Emphasis (p. 529)
- Biomechanics Safety, Emphasis (p. 529)

Biomechanics Physics, Emphasis

Major

In addition to the 87-hour professional core, students will complete:

Code	Title	Credit Hours
Professional Core Courses		87
PHY 304	Optics	3
PHY 314	Electronic Physics	3
PHY 405	Optics Lab	2
PHY 350	Biological Physics	3
or PHY 360	Medical Physics	
Total Credit Hours		**98**

There are no electives available for students. A minimum of 120 hours are required to graduate.

Biomechanics Pre-Medical, Emphasis

- General Education Course

- Milestone course: a key success marker for your major. See your advisor to discuss the importance of this course in your plan of study.

Major

In addition to the 87-hour professional core, students will complete:

Code	Title	Credit Hours
Professional Core Courses		87
CHM 211	Principles of Chemistry I	3
CHM 217	Principles of Chem Lab I	2
CHM 212	Principles Chemistry II	3
CHM 218	Principles of Chem Lab II	2
CHM 355	Organic Chemistry I	3
CHM 356	Organic Chemistry II	3
CHM 361	Intro Organic Chm Lab	3
BSC 120 & BSC 120L	Principles of Biology I and Principles of Biology I Lab	4

BSC 121 & BSC 121L	Principles of Biology II and Prin of Biology II Lab	4

Summer School will be required to complete this degree in four years. There are no electives available for students. A minimum of 120 hours are required to graduate.

Biomechanics Pre-Physical Therapy, Emphasis

- General Education Course

- Milestone course: a key success marker for your major. See your advisor to discuss the importance of this course in your plan of study.

Major

In addition to the 87-hour professional core, students will complete:

Code	Title	Credit Hours
Professional Core Courses		87
CHM 211	Principles of Chemistry I	3
CHM 217	Principles of Chem Lab I	2
CHM 212	Principles Chemistry II	3
CHM 218	Principles of Chem Lab II	2
BSC 120 & BSC 120L	Principles of Biology I and Principles of Biology I Lab	4
BSC 121 & BSC 121L	Principles of Biology II and Prin of Biology II Lab	4
Total Credit Hours		**105**

Summer school will be required to complete this degree in four years. There are no electives available for students. A minimum of 120 hours are required to graduate.

Biomechanics Safety, Emphasis

Major

A minimum of 120 hours are required to graduate. In addition to the 87-hour professional core, students will complete:

Code	Title	Credit Hours
Professional Core Courses		87
SFT 372	Safety & Industrial Tech	3
SFT 375	Construction Safety I	3
SFT 378	Safety Eval & Measurement	3
SFT 458	Hospital Safety	3
SFT 460	Safety Training Methods	3
Total Credit Hours		**102**

Exercise Science, B.S.

Exercise Science is a scientific program of study that focuses on the anatomy, physiology, biochemistry, and biophysics of human movement, and applications to exercise and therapeutic rehabilitation. Examples of coursework include instruction in clinical exercise physiology, exercise physiology, biomechanics, fitness assessment and exercise prescription, energy metabolism, and strength and conditioning.

Exercise Science prepares qualified professionals for employment in health and fitness centers, hospital based health and wellness programs, corporate based health and wellness programs, cardiac rehabilitation, strength and conditioning, and allied health areas. Additionally, the program prepares students for advanced study in related fields such as exercise physiology, biomechanics, occupational therapy, physical therapy, physician assistant, medicine, and chiropractic medicine.

The Exercise Science program comprises two areas of emphasis, which include Clinical Exercise Physiology and Applied Exercise Physiology.

Admission Requirements

Prospective students must meet the minimum criteria listed below to be considered for admission to the program.

- Admission to Marshall University
- Declared Exercise Science as a major, including preferred area of emphasis

- General Education Course

- Milestone course: a key success marker for your major. See your advisor to discuss the importance of this course in your plan of study.

Major

Courses in this category **may not** be completed under the credit/non-credit option.

A. Core Curriculum

B. Exercise Science Professional Core 79 hours

Code	Title	Credit Hours
BSC 227 & BSC 227L	Human Anatomy and Human Anatomy Lab	4
BSC 228 & BSC 228L	Human Physiology and Human Physiology Lab	4
DTS 210	Nutrition	3
ESS 215	Intro to Exercise Science	3
ESS 345	Exercise Physiology	3
ESS 375	Fitness Assess & Exerc Prescr	3
ESS 386	Adult Fitness	3
ESS 442	Princ of Strength & Cond	3
ESS 443	Prin of Strength Cond Lab	1
ESS 478	Exercise Metabolism	3
ESS 491	Internship Exercise Science (minimum 6 credit hours required; maximum 12 credit hours)	6-12
HS 200	Comp Medical Terminology (CT)	3
HS 222	Hlth Prov First Aid/CPR/AED	3
HS 365	Functional Kinesiology	3
PSY 201	Introductory Psychology (CT)	3
PSY 223	Elem Behavioral Stat	3

PSY 440	Physiological Psychology	3
Any 3-credit-hour developmental course		3
Any 3-credit-hour ethics course		3
Any 3-credit hour free elective		3

C. Area of Emphasis (Students must choose one)
   1. Clinical Exercise Physiology
   2. Applied Exercise Physiology

Other Requirements

D. Core Curriculum

E. Must be at least senior status into the summer of the last academic year and must have completed ESS 375 Fitness Assess & Exerc Prescr prior to starting the internship experience (completions of ESS 386 Adult Fitness, ESS 442 Princ of Strength & Cond, and ESS 443 Prin of Strength Cond Lab are strongly recommended).

F. Graduation Requirements:
   a. An overall cumulative minimum GPA of 2.50
   b. A *C* or better on all required coursework
   c. Minimum 120 semester hours

Options

All students who complete this undergraduate program are eligible to take the following exams:

- The Certified Strength and Conditioning Specialist (CSCS)
- The ACSM certifications:
  - Personal Trainer
  - Health Fitness Specialist

Areas of Emphasis

- Applied Exercise Physiology, Emphasis (p. 530)
- Clinical Exercise Physiology, Emphasis (p. 532)

Applied Exercise Physiology, Emphasis

- General Education Course

- Milestone course: a key success marker for your major. See your advisor to discuss the importance of this course in your plan of study.

Major

The Core Curriculum is designed to foster critical thinking skills and introduce students to basic domains of thinking that transcend disciplines. The Core applies to all majors. Information on specific classes in the Core can be found at https://www.marshall.edu/gened/.

Code	Title	Credit Hours
Core Curriculum		
Core 1: Critical Thinking		
FYS 100	First Yr Sem Critical Thinking	3
HS 200	Comp Medical Terminology (CT)	3
PSY 201	Introductory Psychology (CT)	3
Core 2		
ENG 101	Beginning Composition	3
ENG 201	Advanced Composition	3
CMM 207	Bus & Prof Communication	3
BSC 228 & BSC 228L	Human Physiology and Human Physiology Lab	4
Core II Mathematics		3
Core II Humanities		3
Core II Fine Arts		3
PSY 201	Introductory Psychology (CT)	3
Additional University Requirements		
Writing Intensive (Core II Humanities)		3
Writing Intensive		3
Multicultural/International (Core II Humanities)		3
ESS 491	Internship Exercise Science (Capstone)	6
Major-Specific		
BSC 227	Human Anatomy	3
DTS 210	Nutrition	3
ESS 215	Intro to Exercise Science	3
ESS 345	Exercise Physiology	3
ESS 375	Fitness Assess & Exerc Prescr	3
ESS 386	Adult Fitness	3
ESS 442	Princ of Strength & Cond	3
ESS 443	Prin of Strength Cond Lab	1
ESS 478	Exercise Metabolism	3
ESS 491	Internship Exercise Science [1]	6
HS 200	Comp Medical Terminology (CT)	3
HS 222	Hlth Prov First Aid/CPR/AED	3
HS 365	Functional Kinesiology	3
PSY 223	Elem Behavioral Stat	3
PSY 440	Physiological Psychology	3
PSY 311 or PSY 312	Child Development or Adult Development	3
Ethics Course		
Select one of the following:		3
STHM 401	Ethics in Sport	3
PHL 202	Ethics of Health Care (CT)	
PHL 302	Applied Ethics	
PHL 303	Ethics	
Pre-requisite or Free Elective		3
Free Elective		3
Free Elective		3
Free Elective		2
Free Elective		2
Area of Emphasis-Specific		
CHM 205	General, Organic, and Biochem	3
CMM 207	Bus & Prof Communication	3
MKT 340	MKT Concepts and Applications [2]	3
MGT 320	Principles of Management [2]	3
MGT 350	Health Care Management [2]	3
MGT 354	Health Care Delivery Systems [2]	3
ENT 360	Intro to Entrepreneurship	3

PHY 101	Conceptual Physics	3
PHY 101L	Conceptual Physics Lab	1

[1] Must be at least senior status into the summer of the last academic year and must have completed ESS 375 Fitness Assess & Exerc Prescr prior to starting the internship experience (completions of ESS 386 Adult Fitness, ESS 442 Princ of Strength & Cond, and ESS 443 Prin of Strength Cond Lab are strongly recommended).

[2] Five required courses, MKT 340; MGT 320, 350, 354, and ENT 360, can be replaced by Minor in Sport Management requirement courses STHM 250, 380, and 410 and 2 from [STHM 381, 401, 403, 416, 470].

Major Information

- Students are required to know and track their degree requirements for graduation or for entrance to a professional school.
- Course offerings and course attributes are subject to change semesters. Please consult each semester's schedule of courses for availability and attributes.
- A grade of *C* or better on all required coursework is required for graduation.
- Courses listed in "Area of Emphasis Specific" are suggested courses. Students should discuss with advisor and select courses based on their career interests.
- Students may need to take extra courses to satisfy prerequisites.
- Graduation Requirements:
  - A minimum of 120 credit hours;
  - A minimum grade of C in Exercise Science core courses; and
  - A minimum GPA of 2.5 in Exercise Science core courses. (Exercise Science majors must maintain the minimum 2.5 GPA in Exercise Sceince core courses after the first semester in which they are enrolled.)

- General Education Course

- Milestone course: a key success marker for your major. See your advisor to discuss the importance of this course in your plan of study.

Four Year Plan

Exercise Science is a scientific program of study that focuses on the anatomy, physiology, biochemistry, and biophysics of human movement, and applications to exercise and therapeutic rehabilitation. Examples of coursework include instruction in clinical exercise physiology, exercise physiology, biomechanics, fitness assessment and exercise prescription, energy metabolism, and strength and conditioning. Exercise Science prepares qualified professionals for employment in health and fitness centers, hospital based health and wellness programs, corporate based health and wellness programs, cardiac rehabilitation, strength and conditioning, and allied health areas.

Course	Title	Credit Hours
First Year		
First Semester		
CMM 207	Bus & Prof Communication	3
ENG 101	Beginning Composition	3
FYS 100	First Yr Sem Critical Thinking	3
ESS 215	Intro to Exercise Science	3
Core II Mathematics		3
UNI 100	Freshman First Class	1
	Credit Hours	**16**
Second Semester		
HS 200	Comp Medical Terminology (CT)	3
ENG 201	Advanced Composition	3
PSY 201	Introductory Psychology (CT)	3
Pre-requisite or Free Elective		3
Core II Humanities (WI, MC/I)		3
	Credit Hours	**15**
Second Year		
First Semester		
BSC 227 & BSC 227L	Human Anatomy and Human Anatomy Lab	4
Core II Fine Arts		3
Writing Intensive		3
MGT 320	Principles of Management	3
MKT 340	MKT Concepts and Applications	3
	Credit Hours	**16**
Second Semester		
HS 222	Hlth Prov First Aid/CPR/AED	3
BSC 228 & BSC 228L	Human Physiology and Human Physiology Lab	4
CHM 205	General, Organic, and Biochem	3
Free Elective		3
Free Elective		3
	Credit Hours	**16**
Third Year		
First Semester		
DTS 210	Nutrition	3
ESS 345	Exercise Physiology	3
PSY 223	Elem Behavioral Stat	3
PHY 101	Conceptual Physics	3
PHY 101L	Conceptual Physics Lab	1
Free Elective		2
	Credit Hours	**15**
Second Semester		
ESS 375	Fitness Assess & Exerc Prescr	3
ESS 386	Adult Fitness	3
HS 365	Functional Kinesiology	3
MGT 350	Health Care Management	3
ENT 360	Intro to Entrepreneurship	3
	Credit Hours	**15**
Fourth Year		
First Semester		
ESS 478	Exercise Metabolism	3
Ethics Course		3
MGT 354	Health Care Delivery Systems	3
PSY 311 or PSY 312	Child Development or Adult Development	3
Free Elective		2

Free Elective		2
	Credit Hours	**16**
Second Semester		
PSY 440	Physiological Psychology	3
ESS 491	Internship Exercise Science	1-12
ESS 442	Princ of Strength & Cond	3
ESS 443	Prin of Strength Cond Lab	1
Free Elective		3
	Credit Hours	**11-22**
	Total Credit Hours	**120-131**

Clinical Exercise Physiology, Emphasis

- General Education Course

- Milestone course: a key success marker for your major. See your advisor to discuss the importance of this course in your plan of study.

Major

The Core Curriculum is designed to foster critical thinking skills and introduce students to basic domains of thinking that transcend disciplines. The Core applies to all majors. Information on specific classes in the Core can be found at https://www.marshall.edu/gened/.

Code	Title	Credit Hours
Core Curriculum		
Core 1: Critical Thinking		
FYS 100	First Yr Sem Critical Thinking	3
HS 200	Comp Medical Terminology (CT)	3
PSY 201	Introductory Psychology (CT)	3
Core 2		
ENG 101	Beginning Composition	3
ENG 201	Advanced Composition	3
CMM 103	Fund Speech-Communication	3
BSC 228	Human Physiology	3
BSC 228L	Human Physiology Lab	1
Core II Mathematics		3
Core II Humanities (WI, MC/I)		3
Core II Fine Arts		3
PSY 201	Introductory Psychology (CT)	3
Additional University Requirements		
Writing Intensive (Core II Humanities)		3
Writing Intensive		3
Multicultural/International (Core II Humanities)		3
ESS 491	Internship Exercise Science (Capstone)	6
Major-Specific		
BSC 227	Human Anatomy	3
BSC 227L	Human Anatomy Lab	1
DTS 210	Nutrition	3
ESS 215	Intro to Exercise Science	3
ESS 345	Exercise Physiology	3
ESS 375	Fitness Assess & Exerc Prescr	3
ESS 386	Adult Fitness	3
ESS 442	Princ of Strength & Cond	3
ESS 443	Prin of Strength Cond Lab	1
ESS 478	Exercise Metabolism	3
ESS 491	Internship Exercise Science [1]	6
HS 200	Comp Medical Terminology (CT)	3
HS 222	Hlth Prov First Aid/CPR/AED	3
HS 365	Functional Kinesiology	3
PSY 223	Elem Behavioral Stat	3
PSY 440	Physiological Psychology	3
Pre-requisite or Free Elective		3
PSY 311	Child Development	3
or PSY 312	Adult Development	
Ethics Course		
Select one of the following:		3
STHM 401	Ethics in Sport	3
PHL 202	Ethics of Health Care (CT)	
PHL 302	Applied Ethics	
PHL 303	Ethics	
Area of Emphasis-Specific		
BSC 120	Principles of Biology I	3
BSC 120L	Principles of Biology I Lab	1
BSC 121	Principles of Biology II	3
BSC 121L	Prin of Biology II Lab	1
CHM 211	Principles of Chemistry I	3
CHM 217	Principles of Chem Lab I	2
CHM 212	Principles Chemistry II	3
CHM 218	Principles of Chem Lab II	2
Clinical Exercise Physiology Elective		4
Clinical Exercise Physiology Elective		4
Free Elective		2
Free Elective		3

[1] Must be at least senior status into the summer of the last academic year and must have completed ESS 375 Fitness Assess & Exerc Prescr prior to starting the internship experience (completions of ESS 386 Adult Fitness, ESS 442 Princ of Strength & Cond, and ESS 443 Prin of Strength Cond Lab are strongly recommended).

Major Information

- Courses listed in "Area of Emphasis Specific" are suggested courses. Students should discuss with advisor and select courses based on their career interests. The following electives are suggested for students planning to pursue professional school:
  - for PT school application:

Code	Title	Credit Hours
PHY 201	College Physics I	3
PHY 202	General Physics I Laboratory	1
PHY 203	College Physics II	3
PHY 204	General Physics 2 Laboratory	1

- for PA school application:

Code	Title	Credit Hours
BSC 302	Principles of Microbiology	3
BSC 304	Microbiology Lab	2
CHM 355	Organic Chemistry I [1]	3
CHM 356	Organic Chemistry II [1]	3
CHM 361	Intro Organic Chm Lab [1]	3

[1] CHM 355, CHM 356, and CHM 361 may be replaced by BSC 365 or others.

- for OT school application:

Code	Title	Credit Hours
PSY 311	Child Development	3
PSY 408	Abnormal Psychology	3
SOC 440	Intro to the Soc of Aging	3
ANT 201	Cultural Anthropology (CT)	3

Or others

- for Cardiac rehabilitation specialist:

Code	Title	Credit Hours
HP 210	Health Sciences Seminar	3
HP 420	Allied Health Sciences Admin	3
HP 480	Special Topics in HP	1-4
HS 481	Special Topics	1-4

Or others

- Students may need to take extra courses to satisfy prerequisites.
- Students are required to know and track their degree requirements for graduation or for entrance to a professional school.
- Course offerings and course attributes are subject to change each semester. Please consult each semester's schedule of courses for availability and attributes.
- Graduation Requirements:
  - A minimum of 120 credit hours;
  - A minimum grade of C in Exercise Science core courses; and
  - A minimum GPA of 2.5 in Exercise Science core courses. (Exercise Science majors must maintain the minimum 2.5 GPA in Exercise Sceince core courses after the first semester in which they are enrolled.)

- General Education Course

- Milestone course: a key success marker for your major. See your advisor to discuss the importance of this course in your plan of study.

Four Year Plan

Exercise Science is a scientific program of study that focuses on the anatomy, physiology, biochemistry, and biophysics of human movement, and applications to exercise and therapeutic rehabilitation. Examples of coursework include instruction in clinical exercise physiology, exercise physiology, biomechanics, fitness assessment and exercise prescription, energy metabolism, and strength and conditioning. Exercise Science prepares qualified professionals for employment in health and fitness centers, hospital based health and wellness programs, corporate based health and wellness programs, cardiac rehabilitation, strength and conditioning, and allied health areas.

Course	Title	Credit Hours
First Year		
First Semester		
CMM 103	Fund Speech-Communication	3
ENG 101	Beginning Composition	3
ESS 215	Intro to Exercise Science	3
BSC 120	Principles of Biology I	3
BSC 120L	Principles of Biology I Lab	1
UNI 100	Freshman First Class	1
	Credit Hours	**14**
Second Semester		
HS 200	Comp Medical Terminology (CT)	3
FYS 100	First Yr Sem Critical Thinking	3
PSY 201	Introductory Psychology (CT)	3
BSC 121	Principles of Biology II	3
BSC 121L	Prin of Biology II Lab	1
Pre-requisite or Free Elective		3
	Credit Hours	**16**
Second Year		
First Semester		
BSC 227	Human Anatomy	3
BSC 227L	Human Anatomy Lab	1
Core II Fine Arts		4
PSY 311 or PSY 312	Child Development or Adult Development	3
Core II Mathematics		3
ENG 201	Advanced Composition	3
	Credit Hours	**17**
Second Semester		
HS 222	Hlth Prov First Aid/CPR/AED	3
BSC 228	Human Physiology	3
BSC 228L	Human Physiology Lab	1
Writing Intensive		3
Core II Humanities (WI, MC/I)		3
Free Elective		3
	Credit Hours	**16**
Third Year		
First Semester		
DTS 210	Nutrition	3
ESS 345	Exercise Physiology	3
CHM 211	Principles of Chemistry I	3
CHM 217	Principles of Chem Lab I	2
PSY 223	Elem Behavioral Stat	3
Free Elective		2
	Credit Hours	**16**

Second Semester		
ESS 375	Fitness Assess & Exerc Prescr	3
ESS 386	Adult Fitness	3
HS 365	Functional Kinesiology	3
CHM 212	Principles Chemistry II	3
CHM 218	Principles of Chem Lab II	2
	Credit Hours	**14**
Fourth Year		
First Semester		
ESS 478	Exercise Metabolism	3
Clinical Exercise Physiology Elective		4
Ethics Course		3
Clinical Exercise Physiology Elective		4
	Credit Hours	**14**
Second Semester		
PSY 440	Physiological Psychology	3
ESS 491	Internship Exercise Science	6
ESS 442	Princ of Strength & Cond	3
ESS 443	Prin of Strength Cond Lab	1
	Credit Hours	**13**
	Total Credit Hours	**120**

Exercise Science, Minor

Code	Title	Credit Hours
Required		
HS 222	Hlth Prov First Aid/CPR/AED	3
DTS 210	Nutrition	3
ESS 211	Physiology of Fitness	3
Electives		
Select two of the following:		6
HS 220	Personal Health	
HS 365	Functional Kinesiology	
HS 369	Motor Learning	
ESS 442	Princ of Strength & Cond	
ESS 345	Exercise Physiology	
Total Credit Hours		**15**

Health and Wellness, Minor

Code	Title	Credit Hours
Required		
HS 200	Comp Medical Terminology (CT)	3
ESS 220	Fitness and Wellness	3
DTS 210	Nutrition	3
PH 270	Global Health (CT)	3
PEL aerobic course		1
PEL strength training course		1
Total Credit Hours		**14**

Medical Imaging

Contacts: Debby Moore, M.S., RT(R)(CT)(ARRT), Program Director
Website: http://www.marshall.edu/cohp (http://www.marshall.edu/cohp/)

The Bachelor of Science in Medical Imaging is a cooperative program between St. Mary's Medical Center School of Medical Imaging (SOMI) and Marshall University that will prepare the student for professional employment as a radiographer or sonographer. Graduates of the program are eligible to take either the primary certification in radiography administered by American Registry of Radiologic Technologists (ARRT) or sit for the Diagnostic Medical Sonography or Vascular Sonography exam administered by the American Registry of Diagnostic Medical Sonographers. In addition, graduates in the radiography track will be academically prepared to sit for a post-primary certification in an advanced imaging modality.

Graduates must complete all university graduation requirements prior to sitting for the ARRT or ARDMS exam. Due to the time-sensitive nature of the clinical requirements of the certification exams, students must complete all degree requirements within 36 months of entering the SOMI. This does not include the Year One coursework completed at Marshall University.

- Year One focuses on general education requirements and program-specific prerequisites.
- Year 2 focuses on basic medical imaging.
- Students select the radiography track or sonography track in Year 3. Sonography will have a limited number of students and admission will be selective.
- Year 4 will be advanced imaging modalities in either radiography or sonography.

Students are expected to complete all requirements of the SOMI as well as graduation requirements of the university within four (4) years.

Accreditations

- The Bachelor of Science in Medical Imaging Radiography program is accredited by the Joint Review Committee on Education in Radiologic Technology (JRCERT), 20 N. Wacker Drive, Suite 2850, Chicago, IL 60606-3182, phone 312-704-5300, status: 8 year accreditation (maximum offered). It is also accredited by the West Virginia Medical Imaging and Radiation Therapy Technology Board of Examiners. 1715 Flat Top Road, PO BOX 638, Cool Ridge, WV 25825, phone 304-787-4398.
- The sonography program is accredited by The Joint Review Commission in Diagnostic Medical Sonography, www.jrcdms.org (http://www.jrcdms.org) and the Commission on Accreditation of Allied Health Programs; http://ras.caahep.org/.

Tuition Assistance Program

The Marshall University Employee Dependent Undergraduate Tuition Assistance Program cannot be used to cover the tuition and fees of the St. Mary's/Marshall University cooperative programs, which include medical imaging, nursing, and respiratory care. These programs are classified as third-party waiver programs, which are exempted from the Employee Dependent Tuition Assistance Program.

Medical Imaging Professional-Level Completion Program

Applicants with ARRT certification in Radiography, Nuclear Medicine or Radiation Therapy, or ARDMS certification in sonography, may apply for admission into the Professional component to complete the criteria for one of the specialization tracks and to earn a Bachelor of Science – Medical Imaging degree. The completion program uses a 2+2 ladder concept.

Admission requirements include:

1. Demonstration of professional credentials
2. Completion of graduation requirements. Students whose radiography coursework or other coursework was not completed at SMMC SOMI/Marshall University, will be required to satisfy the general education graduation requirements prior to enrolling in the MI program.

   This will vary depending upon the applicant's prior college coursework. Each applicant will be considered on an individual basis. Applicant will receive 55 credit hours for their prior radiology education. Applicants will use the independent study option to raise their imaging coursework to the credit hour level of the SMMC SOMI student (year 2-3). The particular course of the independent study will be determined between the student and the program director.

Programs

- Medical Imaging Radiography, B.S. (p. 539)

Courses

- General Education Course

MI 201 Intro to Radiography **3 Credit hours**
Provides an overview of the foundations in radiography and the practitioner's role in the health care delivery system and professional responsibilities of the radiographer. Provides an overview of the foundations in radiography and the practitioner's role in the health care delivery system and professional responsibilities of the radiographer.
Pre-req: BSC 228 and MTH 121 and PHY 101.
Grade Mode: Normal Grading Mode

MI 202 Patient Care Img Science **3 Credit hours**
Content is designed to identify the role of the radiographer in patient care, including consideration for the physical and psychological needs of the patient and family. Content is designed to identify the role of the radiographer in patient care, including consideration for the physical and psychological needs of the patient and family.
Pre-req: BSC 228 and MI 201.
Co-req: MI 203, MI 204, MI 205, MI 206
Grade Mode: Normal Grading Mode

MI 204 Radiographic Anatomy **3 Credit hours**
Content is designed to introduce the student to radiographic anatomy. Emphasis is placed on identifying structures visible on correctly performed radiographic procedures. Content is designed to introduce the student to radiographic anatomy. Emphasis is placed on identifying structures visible on correctly performed radiographic procedures.
Pre-req: BSC 228.
Co-req: MI 202, MI 203, MI 205, MI 206
Grade Mode: Normal Grading Mode

MI 205 Imaging Procedures I **4 Credit hours**
Content is designed to provide the knowledge base necessary to perform standard imaging procedures. Students will practice imaging procedures in lab prior to performing them on patients. Content is designed to provide the knowledge base necessary to perform standard imaging procedures. Students will practice imaging procedures in lab prior to performing them on patients.
Pre-req: BSC 228.
Co-req: MI 202, MI 203, MI 204, MI 206
Grade Mode: Normal Grading Mode

MI 206 Clinical Practice I **4 Credit hours**
Content and clinical practice experiences are designed to sequentially develop, apply, critically analyze, integrate, synthesize and evaluate concepts and theories in the performance of radiologic procedures. Content and clinical practice experiences are designed to sequentially develop, apply, critically analyze, integrate, synthesize and evaluate concepts and theories in the performance of radiologic procedures.
Co-req: MI 202, MI 203, MI 204, MI 205
Grade Mode: Normal Grading Mode

MI 207 Imaging Procedures II **4 Credit hours**
Content is designed to provide the knowledge base necessary to perform special imaging procedures and basic computed tomography. Content is designed to provide the knowledge base necessary to perform special imaging procedures and basic computed tomography.
Pre-req: BSC 228 with a minimum grade of D and MI 206 with a minimum grade of D.
Co-req: MI 208, MI 209, MI 210, MI 211
Grade Mode: Normal Grading Mode

MI 208 Pharmacology for Imaging Sci **2 Credit hours**
Content is designed to provide basic concepts of pharmacology including delivery of and pharmacodynamics associated with imaging contrast media. Content is designed to provide basic concepts of pharmacology including delivery of and pharmacodynamics associated with imaging contrast media.
Pre-req: BSC 227 with a minimum grade of D and MI 206 with a minimum grade of D.
Co-req: MI 207, MI 209, MI 210, MI 211
Grade Mode: Normal Grading Mode

MI 209 Intro to Imaging Equip **3 Credit hours**
Content is designed to provide knowledge in radiographic, fluoroscopic, mobile and tomographic equipment requirements and design. Content is designed to provide knowledge in radiographic, fluoroscopic, mobile and tomographic equipment requirements and design.
Pre-req: MTH 121 with a minimum grade of D and PHY 101 with a minimum grade of D and PHY 101L with a minimum grade of D.
Co-req: MI 207, MI 208, MI 210, MI 211
Grade Mode: Normal Grading Mode

MI 210 Clinical Practice II **4 Credit hours**
Content is designed to provide the knowledge base necessary to perform standard imaging procedures. Students will begin clinical rotations in computed tomography. Content is designed to provide the knowledge base necessary to perform standard imaging procedures. Students will begin clinical rotations in computed tomography.
Pre-req: MI 206 with a minimum grade of D.
Co-req: MI 207, MI 208, MI 209, MI 211
Grade Mode: Normal Grading Mode

MI 211 Seminar Imaging Science **1 Credit hour**
Introduces student to current research in imaging science. Emphasis will be on oral communication via power point presentations. Introduces student to current research in imaging science. Emphasis will be on oral communication via power point presentations.
Co-req: MI 207, MI 208, MI 209, MI 210
Grade Mode: Normal Grading Mode

MI 212 Seminar Imaging Sciences II **1 Credit hour**
Seminar on new and emerging technologies in imaging sciences.
Grade Mode: Normal Grading Mode

MI 213 Elective Clinical Practicum I **4 Credit hours**
Elective clinical practicum in radiography or sonography.
Grade Mode: Normal Grading Mode

MI 214 Intro to Sonography **3 Credit hours**
This course introduces the basic principles of sonography.
Grade Mode: Normal Grading Mode

MI 302 Princ of Radiation Physics **3 Credit hours**
Introduces student to the nature and characteristic of radiation production and the fundamentals of photon interactions with matter. Course covers principles associated with radiography, nuclear medicine and radiation oncology. Introduces student to the nature and characteristic of radiation production and the fundamentals of photon interactions with matter. Course covers principles associated with radiography, nuclear medicine and radiation oncology.
Pre-req: PHY 101 and PHY 101L and MTH 121 and MI 209.
Co-req: MI 303, MI 304, MI 305, MI 306
Grade Mode: Normal Grading Mode

MI 303 Image Acquisition **3 Credit hours**
Introduces students to the factors that govern the image production process. Introduces students to the factors that govern the image production process.
Pre-req: MTH 121 and MI 209.
Co-req: MI 302, MI 304, MI 305, MI 306
Grade Mode: Normal Grading Mode

MI 304 Radiographic Pathology **3 Credit hours**
Introduces student to concepts related to disease and etiological considerations with emphasis on radiographic appearance of disease and impact on exposure factor selection. Introduces student to concepts related to disease and etiological considerations with emphasis on radiographic appearance of disease and impact on exposure factor selection.
Pre-req: BSC 228 with a minimum grade of D and MI 204 with a minimum grade of D.
Co-req: MI 302, MI 303, MI 305, MI 306
Grade Mode: Normal Grading Mode

MI 305 Clinical Practice IV **4 Credit hours**
Content is designed to provide the knowledge base necessary to perform standard imaging procedures. Clinical practice is sequential. Students will be introduced to special imaging modalities. Content is designed to provide the knowledge base necessary to perform standard imaging procedures. Clinical practice is sequential. Students will be introduced to special imaging modalities.
Pre-req: MI 301.
Co-req: MI 302, MI 303, MI 304, MI 306
Grade Mode: Normal Grading Mode

MI 306 Seminar Imaging Science **1 Credit hour**
Introduces student to current research in imaging science. Introduces student to current research in imaging science.
Co-req: MI 302, MI 303, MI 304, MI 305
Grade Mode: Normal Grading Mode

MI 307 Radiobiology **3 Credit hours**
This course focuses on the biological impact of ionizing radiation.
Pre-req: BSC 228 and CHM 203 and MI 302.
Co-req: MI 308, MI 309, MI 310
Grade Mode: Normal Grading Mode

MI 308 Rad Image Analysis **2 Credit hours**
Content is designed to provide a basis for analyzing and critiquing radiographic images. Content is designed to provide a basis for analyzing and critiquing radiographic images.
Pre-req: MI 303 with a minimum grade of D and MI 304 with a minimum grade of D and MI 208 with a minimum grade of D.
Co-req: MI 307, MI 309, MI 310
Grade Mode: Normal Grading Mode

MI 309 Digital Image Acquisition **2 Credit hours**
Content is designed to impart an understanding of the components, principles and operation of digital imaging systems found in diagnostic radiography. Content is designed to impart an understanding of the components, principles and operation of digital imaging systems found in diagnostic radiography.
Pre-req: MI 303 with a minimum grade of D.
Co-req: MI 305, MI 307, MI 310
Grade Mode: Normal Grading Mode

MI 310 Clinical Practice V **4 Credit hours**
Content is designed to provide the knowledge base necessary to perform standard imaging procedures. Clinical practice is sequential. Students will be introduced to special imaging modalities. Content is designed to provide the knowledge base necessary to perform standard imaging procedures. Clinical practice is sequential. Students will be introduced to special imaging modalities.
Pre-req: MI 210 with a minimum grade of D and MI 301 with a minimum grade of D and MI 305 with a minimum grade of D.
Co-req: MI 307, MI 308, MI 309
Grade Mode: Normal Grading Mode

MI 311 Seminar Imaging Sciences III **1 Credit hour**
Seminar on new and emerging technologies in imaging sciences.
Grade Mode: Normal Grading Mode

MI 312 Abdominal Sonography I **4 Credit hours**
This course covers basic abdominal sonographic positioning and scanning protocols, as it relates to normal anatomy of the abdomen. Laboratory included.
Grade Mode: Normal Grading Mode

MI 313 Ultrasound Physics I **3 Credit hours**
The focus of this course is to educate students about the physics of sound waves and their interaction with tissue enabling the display of diagnostic imaging.
Grade Mode: Normal Grading Mode

MI 314 Clinical Practice I Sonography **4 Credit hours**
Clinical practice experiences are designed for sequential development, application, critical analysis, integration, synthesis and evaluation of concepts and theories in the performance of sonographic procedures.
Grade Mode: Normal Grading Mode

MI 315 Small Parts Sonography **3 Credit hours**
This course covers anatomy, positioning and scanning protocol of the superficial structures.
Grade Mode: Normal Grading Mode

MI 316 Abdominal Sonography II **3 Credit hours**
This course covers basic abdominal sonographic positioning and scanning protocols, as it relates to normal anatomy, anatomical variants, physiology to include the retroperitoneum, associated abdominal vasculature identified.
Grade Mode: Normal Grading Mode

MI 317 Ultrasound Physics II **3 Credit hours**
The focus of this course is to educate students about the physics of sound waves and their interaction with tissue enabling the display of diagnostic imaging.
Grade Mode: Normal Grading Mode

MI 318 Vascular Sonography I **4 Credit hours**
Discussion of vascular disease, duplex examinations with comparison to arteriography, as it pertains to venous and visceral vascular examinations. Laboratory included.
Grade Mode: Normal Grading Mode

MI 319 Clinical Prac II Sonograpy **4 Credit hours**
Clinical practice experiences are designed for sequential development, application, critical analysis, integration, synthesis and evaluation of concepts and theories in the performance of sonographic procedures.
Grade Mode: Normal Grading Mode

MI 320 Elective Clinical Practicum II **4 Credit hours**
Elective clinical practicum in radiography or sonography.
Grade Mode: Normal Grading Mode

MI 321 Imaging Procedures III **4 Credit hours**
Content is designed to provide the knowledge necessary for advanced diagnostic radiographic imaging procedures.
Pre-req: MI 205 and MI 207.
Grade Mode: Normal Grading Mode

MI 322 Radiation Safety **3 Credit hours**
This course focuses on radiation safety including ionizing radiation dose limits for the occupational worker, patient and general public.
Grade Mode: Normal Grading Mode

MI 401 Seminar in Imaging Sci **1 Credit hour**
Review seminar for the primary ARRT certification examination. Review seminar for the primary ARRT certification examination.
Grade Mode: Normal Grading Mode

MI 402 Quality Management **3 Credit hours**
Advanced practice course in the quality assurance (QA) and quality management (QM) process for imaging sciences. Advanced practice course in the quality assurance (QA) and quality management (QM) process for imaging sciences.
Grade Mode: Normal Grading Mode

MI 403 Adv Practice Medical Img **3 Credit hours**
Core theory requirement for all advanced practice students focused on discussion of communication, human diversity, health care policy, legal issues and patient information management. Core theory requirement for all advanced practice students focused on discussion of communication, human diversity, health care policy, legal issues and patient information management.
Grade Mode: Normal Grading Mode

MI 404 Adv Sectional Anatomy **3 Credit hours**
Provides students enrolled in CT/MRI advanced practice track advanced knowledge of sectional anatomy. Provides students enrolled in CT/MRI advanced practice track advanced knowledge of sectional anatomy.
Co-req: MI 405, MI 407
Grade Mode: Normal Grading Mode

MI 405 CT Procedures **3 Credit hours**
Focus on advanced patient care skills including ACLS, imaging procedures and equipment in computed tomography. Focus on advanced patient care skills including ACLS, imaging procedures and equipment in computed tomography.
Co-req: MI 404, MI 408
Grade Mode: Normal Grading Mode

MI 406 MRI Procedures **3 Credit hours**
Focus on advanced patient care skills including ACLS, imaging procedures and equipment in computed tomography. Focus on advanced patient care skills including ACLS, imaging procedures and equipment in computed tomography.
Co-req: MI 404, MI 408
Grade Mode: Normal Grading Mode

MI 407 Cardiovascular Anatomy **3 Credit hours**
Focus on advanced cardiovascular anatomy, physiology and pathophysiology including heart anatomy, coronary, systemic, pulmonary, peripheral and cerebral circulation. Focus on advanced cardiovascular anatomy, physiology and pathophysiology including heart anatomy, coronary, systemic, pulmonary, peripheral and cerebral circulation.
Co-req: MI 408
Grade Mode: Normal Grading Mode

MI 408 Vascular Interventional Img **3 Credit hours**
Focus is on advanced patient care skills including ACLS, procedures and equipment utilized in cardiovascular and vascular/interventional imaging. Focus is on advanced patient care skills including ACLS, procedures and equipment utilized in cardiovascular and vascular/interventional imaging.
Co-req: MI 407
Grade Mode: Normal Grading Mode

MI 409 Adv Clinical Practice **4 Credit hours**
Students will arrange clinical experience in selected imaging modality to gain competency in clinical procedures required to sit for post-primary ARRT certification exams. Students will arrange clinical experience in selected imaging modality to gain competency in clinical procedures required to sit for post-primary ARRT certification exams.
Grade Mode: Normal Grading Mode

MI 410 Research Medical Imaging **3 Credit hours**
Capstone course. Research methods and information literacy.
Capstone course. Research methods and information literacy.
Attributes: Capstone Course
Grade Mode: Normal Grading Mode

MI 411 Transcultural Healthcare **3 Credit hours**
Multidisciplinary approach to transcultural healthcare. Course will utilize comparative ethnography and provide a theoretical framework for organizing and interpreting information about health. Multidisciplinary approach to transcultural healthcare. Course will utilize comparative ethnography and provide a theoretical framework for organizing and interpreting information about health.
Attributes: Multicultural
Grade Mode: Normal Grading Mode

MI 412 Radiography Management I **3 Credit hours**
Provides instruction in management principles for radiography departmental managers including JACHO and Nuclear Regulatory Commission parameters. Students will be prepared to sit for the certification exam offered by the AHRA.
Grade Mode: Normal Grading Mode

MI 413 Radiography Management II **3 Credit hours**
Continuation of MI 412 to provide radiographer with management principles and preparation for the AHRA certification exam in radiography management.
Grade Mode: Normal Grading Mode

MI 414 Mammography **3 Credit hours**
Introduction to medical imaging of the breast. Focus is to prepare student for advanced certification exam in Mammography.
Grade Mode: Normal Grading Mode

MI 415 RIS and PACS Principles **3 Credit hours**
Course content provides basic knowledge of digital storage systems, computer networking, radiology information systems (RIS), and picture archiving and communication systems (PACS).
Grade Mode: Normal Grading Mode

MI 416 Obstetrical Sonography I **3 Credit hours**
This course covers basic obstetrical sonographic postitioning and scanning protocols, as it relates to normal anatomy of the fetus.
Grade Mode: Normal Grading Mode

MI 417 Gynecological Sonography I **3 Credit hours**
This course presents a study of normal anatomy and physiology of the nongravid and first trimester pelvis.
Grade Mode: Normal Grading Mode

MI 418 Sonography Registry Review I **1 Credit hour**
This course is designed to prepare the sonography student for their first speciality exam through the ARDMS.
Grade Mode: Normal Grading Mode

MI 419 Clinical Prac III Sonography **4 Credit hours**
Clinical practice experiences are designed for sequential development, application, critical analysis, integration, synthesis and evaluation of concepts and theories in the performance of sonographic procedures.
Grade Mode: Normal Grading Mode

MI 420 Obstetrical Sonography II **2 Credit hours**
This course focuses on sonographic techniques in high risk pregnancies and fetal abnormalities.
Grade Mode: Normal Grading Mode

MI 421 Gynecological Sonography II **2 Credit hours**
This course presents a study of pathology of the nongravid and first trimester pelvis.
Grade Mode: Normal Grading Mode

MI 422 Clinical Pract IV Sonography **4 Credit hours**
Clinical practice experiences are designed for sequential development, application, critical analysis, integration, synthesis and evaluation of concepts and theories in the performance of sonographic procedures.
Grade Mode: Normal Grading Mode

MI 423 Echocardiography I **4 Credit hours**
This course covers basic adult heart sonographic positioning and scanning protocols, as it relates to normal anatomy, anatomical variants, physiology of the adult heart.
Grade Mode: Normal Grading Mode

MI 424 Vascular Sonography II **3 Credit hours**
Discussion of vascular pathology and the use of plethsymography techniques in sonography.
Grade Mode: Normal Grading Mode

MI 425 Echocardiography II **3 Credit hours**
This course is a continuation of MI 423 and covers basic adult heart sonographic positioning and scanning protocols, as it relates to anatomical variants and physiology of the adult heart.
Grade Mode: Normal Grading Mode

MI 426 Advanced Clinical Practice II **4 Credit hours**
Students will arrange clinical experience in selected imaging modality to gain competency in clinical procedures required to sit for post-primary ARRT certification exams.
Grade Mode: Normal Grading Mode

MI 427 Adv Trauma and Surgical Rad **3 Credit hours**
Advanced practice course in trauma and surgical radiography for imaging sciences.
Grade Mode: Normal Grading Mode

MI 428 Forensic Radiology **3 Credit hours**
This course will focus on introducing forensic radiography techniques and theoretical models.
Grade Mode: Normal Grading Mode

MI 429 Geriatric and Pediatric Rad **3 Credit hours**
This course will focus on advanced diagnositc medical imaging in the geriatric and pediatric population including mobile radiography.
Grade Mode: Normal Grading Mode

MI 430 Mammography II **3 Credit hours**
Advanced medical imaging of the breast.
Grade Mode: Normal Grading Mode

MI 431 Adv Clinical Practice III **4 Credit hours**
Elective advanced clinical practicum in radiography or sonography.
Grade Mode: Normal Grading Mode

MI 432 Advanced MRI Theory **3 Credit hours**
Advanced magnetic resonance imaging equipment and procedures.
Pre-req: MI 406 with a minimum grade of D.
Grade Mode: Normal Grading Mode

MI 433 Point of Care Ultrasound **3 Credit hours**
This course will introduce basic principles of point of care ultrasound for vascular and cardiac interventional radiography, and mammography.
Grade Mode: Normal Grading Mode

MI 434 Cardiovascular Imaging **3 Credit hours**
This course will focus on diagnostic and interventional procedures of the cardiovascular system.
Grade Mode: Normal Grading Mode

MI 435 Seminar ARRT Exam Review II **1 Credit hour**
This is a review course for the ARRT primary certification examination.
Grade Mode: Normal Grading Mode

MI 436 Sonography Registry Review II **1 Credit hour**
This course is designed to prepare the sonography student for their second specialty exam through the ARDMS.
Grade Mode: Normal Grading Mode

MI 437 Breast Sonography **3 Credit hours**
This course covers anatomy, positioning and scanning protocol for the breast as well as an introduction to ultrasound physics.
Grade Mode: Normal Grading Mode

MI 438 Fetal Echocardiology **3 Credit hours**
This course focuses on echosonography of the developing fetus.
Grade Mode: Normal Grading Mode

MI 439 Pediatric Echo I **3 Credit hours**
This course focuses on sonographic techniques in pediatric echocardiography.
Grade Mode: Normal Grading Mode

MI 440 Pediatric Echo II **3 Credit hours**
This course is a continuation of MI 439 and focuses on sonographic techniques in pediatric echocardiography.
Pre-req: MI 439 with a minimum grade of D.
Grade Mode: Normal Grading Mode

MI 441 Adv Echocardiography I **3 Credit hours**
This course focuses on advanced sonographic techniques in pediatric echocardiography and is designed for the credentialed echocardiographer training in the area of pediatric echo.
Grade Mode: Normal Grading Mode

MI 442 Adv Echocardiography II **3 Credit hours**
This course is a continuation of MI 441 and focuses on advanced sonographic techniques in pediatric echocardiography and is desinged for the credentialed echocardiographer training in the area of pediatric echo.
Pre-req: MI 441 with a minimum grade of D.
Grade Mode: Normal Grading Mode

MI 485 Independent Study **1-4 Credit hours**
Course designed to allow student to pursue individual research in medical imaging.
Grade Mode: Normal Grading Mode

MI 486 Independent Study **1-4 Credit hours**
Course designed to allow student to pursue individual research in medical imaging.
Grade Mode: Normal Grading Mode

MI 487 Independent Study **1-4 Credit hours**
Course designed to allow student to pursue individual research in medical imaging.
Grade Mode: Normal Grading Mode

MI 488 Independent Study **1-4 Credit hours**
Course designed to allow student to pursue individual research in medical imaging.
Grade Mode: Normal Grading Mode

Faculty

Debby Moore, M.S., RT(R) (CT) (ARRT), Department Chair of Medical Imaging

Jane Mannon, M.S., RDMS, RVT, RT (R), Sonography Program Director

Medical Imaging Radiography, B.S.

Four-Year Medical Imaging Program Admission Requirements

Year One: Applicants must demonstrate unconditional admission into Marshall University. Year One coursework will occur at Marshall University. Upon completion of the Year One curriculum, students can make separate application to SOMI. Admission to the SOMI is limited to 20-25 students. Applicants are ranked by points.

1. ACT score: 21 (additional points are given for ACT scores of 19 or better in math and science)
2. GPA: 2.50 minimum
3. Grade of *C* or better in:

Code	Title	Credit Hours
BSC 227	Human Anatomy	3
BSC 227L	Human Anatomy Lab	1
BSC 228	Human Physiology	3
BSC 228L	Human Physiology Lab	1
PHY 101	Conceptual Physics	3
PHY 101L	Conceptual Physics Lab	1
CHM 205	General, Organic, and Biochem	3
MTH 121	Concepts and Applications (CT) (or higher)	3

4. Progression through to Year Four is dependent upon maintaining a minimum GPA of 2.50 and grade of *C* or better in all Medical Imaging coursework.
5. Negative drug screen and background check. Drug screen and background checks will be conducted at the applicant's expense.

Major

The Core Curriculum is designed to foster critical thinking skills and introduce students to basic domains of thinking that transcend disciplines. The Core applies to all majors. Information on specific classes in the Core can be found at https://www.marshall.edu/gened/.

Code	Title	Credit Hours
Core Curriculum		
Core 1: Critical Thinking		
FYS 100	First Yr Sem Critical Thinking	3
MTH 121	Concepts and Applications (CT)	3
CLS 105	Medical-Lab Terminology (CT)	3
Core 2		
ENG 101	Beginning Composition	3
ENG 201	Advanced Composition	3
CMM 103	Fund Speech-Communication	3
MTH 121	Concepts and Applications (CT)	3
BSC 228	Human Physiology	3
BSC 228L	Human Physiology Lab	1
Core II Humanities		3

Core II Social Science		3
Core II Fine Arts		3
Additional University Requirements		
Writing Intensive		3
MI 403	Adv Practice Medical Img (recommended)	
Writing Intensive		3
MI 411	Transcultural Healthcare (recommended)	
Multicultural or International		3
MI 411	Transcultural Healthcare (recommended)	
Capstone (see advanced modality track)		3
Major-Specific		
BSC 227	Human Anatomy	3
BSC 227L	Human Anatomy Lab	1
BSC 228	Human Physiology	3
BSC 228L	Human Physiology Lab	1
PHY 101	Conceptual Physics	3
PHY 101L	Conceptual Physics Lab	1
CLS 105	Medical-Lab Terminology (CT)	3
MI 201	Intro to Radiography	3
MI 202	Patient Care Img Science	3
MI 204	Radiographic Anatomy	3
MI 206	Clinical Practice I	4
MI 207	Imaging Procedures II	4
MI 208	Pharmacology for Imaging Sci	2
MI 209	Intro to Imaging Equip	3
MI 210	Clinical Practice II	4
MI 211	Seminar Imaging Science	1
MI 212	Seminar Imaging Sciences II	1
Statistics		3
Area of Emphasis-Specific		
Additional courses will vary depending on advanced modality track in fourth year.		
MI 302	Princ of Radiation Physics	3
MI 303	Image Acquisition	3
MI 304	Radiographic Pathology	3
MI 305	Clinical Practice IV	4
MI 306	Seminar Imaging Science	1
MI 307	Radiobiology	3
MI 308	Rad Image Analysis	2
MI 309	Digital Image Acquisition	2
MI 310	Clinical Practice V	4
MI 311	Seminar Imaging Sciences III	1
MI 321	Imaging Procedures III	4
Advanced Modality Track		
In Year 4, students in the radiography area of emphasis must choose one of the four advanced modality tracks:		27-30
CT/MRI (27 hours)		
Cardiovascular/Interventional (27 hours)		
Mammography (27 hours)		
Medical Imaging Management (30 hours)		

Major Information

- Students in the Medical Imaging Program must maintain a minimum GPA of 2.50 and receive a grade of *C* or better in all MI coursework.
- All applicants must meet the professional guidelines established by the ARRT to sit for particular certification examinations.
- By Year 3, students must choose to continue in the radiography area of emphasis or apply to the competitive sonography area of emphasis. This academic map outlines the curriculum for those who choose the radiography area of emphasis.

Areas of Emphasis

- General Sonography, Emphasis (p. 541)
- Medical Imaging, Emphasis - Advanced Diagnostic Radiography (http://catalog.marshall.edu/undergraduate/programs-az/health-professions/medical-imaging/medical-imaging-radiography-bs/emphasis-advanced-diagnostic-radiography/)
- Medical Imaging, Emphasis - Cardiovascular/Interventional Advanced Practice (p. 543)
- Medical Imaging, Emphasis - CT MRI Advanced Practice (p. 543)
- Medical Imaging, Emphasis - Mammography (p. 543)
- Medical Imaging, Emphasis - Medical Imaging Management Advanced Practice (p. 543)
- Sonography, Emphasis - Cardiovascular Sonography (p. 544)

Four Year Plan

St. Mary's School of Medical Imaging (SOMI) is a hospital-based program, partnered with Marshall University to offer a Bachelor of Science in Medical Imaging. The program curriculum is designed to prepare students to practice radiography/sonography and introduce students to related specialized imaging modalities. The program can be completed in four years. Credentialed Radiographers may enter the professional portion of the program (fourth year) and also obtain the degree.

Course	Title	Credit Hours
First Year		
First Semester		
CMM 103	Fund Speech-Communication	3
ENG 101	Beginning Composition	3
MTH 121	Concepts and Applications (CT)	3
BSC 227	Human Anatomy	3
BSC 227L	Human Anatomy Lab	1
CLS 105	Medical-Lab Terminology (CT)	3
UNI 100	Freshman First Class	1
	Credit Hours	**17**
Second Semester		
BSC 228	Human Physiology	3
BSC 228L	Human Physiology Lab	1
ENG 201	Advanced Composition	3
FYS 100	First Yr Sem Critical Thinking	3
Core II Social Science		3
PHY 101	Conceptual Physics	3

PHY 101L	Conceptual Physics Lab	1
	Credit Hours	**17**
Second Year		
First Semester		
MI 201	Intro to Radiography	3
MI 202	Patient Care Img Science	3
MI 204	Radiographic Anatomy	3
MI 205	Imaging Procedures I	4
MI 206	Clinical Practice I	4
MI 211	Seminar Imaging Science	1
	Credit Hours	**18**
Second Semester		
Core II Humanities		3
MI 207	Imaging Procedures II	4
MI 208	Pharmacology for Imaging Sci	2
MI 209	Intro to Imaging Equip	3
MI 210	Clinical Practice II	4
MI 212	Seminar Imaging Sciences II	1
	Credit Hours	**17**
Third Year		
First Semester		
MI 302	Princ of Radiation Physics	3
MI 303	Image Acquisition	3
MI 304	Radiographic Pathology	3
MI 305	Clinical Practice IV	4
MI 306	Seminar Imaging Science	1
MI 321	Imaging Procedures III	4
	Credit Hours	**18**
Second Semester		
MI 307	Radiobiology	3
MI 308	Rad Image Analysis	2
MI 309	Digital Image Acquisition	2
MI 310	Clinical Practice V	4
MI 311	Seminar Imaging Sciences III	1
Statistics		3
	Credit Hours	**15**
Fourth Year		
First Semester		
Core II Fine Arts		3
Advanced Modality Track		13
	Credit Hours	**16**
Second Semester		
Advanced Modality Track		14-17
	Credit Hours	**14-17**
	Total Credit Hours	**132-135**

General Sonography, Emphasis

Major

The Core Curriculum is designed to foster critical thinking skills and introduce students to basic domains of thinking that transcend disciplines. The Core applies to all majors. Information on specific classes in the Core can be found at https://www.marshall.edu/gened/.

Code	Title	Credit Hours
Core Curriculum		
Core 1: Critical Thinking		
FYS 100	First Yr Sem Critical Thinking	3
MTH 121	Concepts and Applications (CT)	3
CLS 105	Medical-Lab Terminology (CT)	3
Core 2		
ENG 101	Beginning Composition	3
ENG 201	Advanced Composition	3
CMM 103	Fund Speech-Communication	3
MTH 121	Concepts and Applications (CT)	3
BSC 228	Human Physiology	3
BSC 228L	Human Physiology Lab	1
Core II Humanities		3
Core II Social Science		3
Core II Fine Arts		3
Additional University Requirements		
Writing Intensive		3
MI 403	Adv Practice Medical Img (recommended)	
Writing Intensive		3
MI 411	Transcultural Healthcare (recommended)	
Multicultural or International		3
MI 411	Transcultural Healthcare (recommended)	
MI 410	Research Medical Imaging (Capstone)	3
Major-Specific		
BSC 227	Human Anatomy	3
BSC 227L	Human Anatomy Lab	1
BSC 228	Human Physiology	3
BSC 228L	Human Physiology Lab	1
PHY 101	Conceptual Physics	3
PHY 101L	Conceptual Physics Lab	1
CLS 105	Medical-Lab Terminology (CT)	3
MI 201	Intro to Radiography	3
MI 202	Patient Care Img Science	3
MI 204	Radiographic Anatomy	3
MI 205	Imaging Procedures I	4
MI 206	Clinical Practice I	4
MI 207	Imaging Procedures II	4
MI 208	Pharmacology for Imaging Sci	2
MI 209	Intro to Imaging Equip	3
MI 210	Clinical Practice II	4
MI 211	Seminar Imaging Science	1
MI 212	Seminar Imaging Sciences II	1
Statistics		3
Area of Emphasis-Specific		
Additional courses will vary depending on advanced modality track in fourth year.		
MI 306	Seminar Imaging Science	1

MI 311	Seminar Imaging Sciences III	1
MI 312	Abdominal Sonography I	4
MI 313	Ultrasound Physics I	3
MI 314	Clinical Practice I Sonography	4
MI 315	Small Parts Sonography	3
MI 316	Abdominal Sonography II	3
MI 317	Ultrasound Physics II	3
MI 318	Vascular Sonography I	4
MI 319	Clinical Prac II Sonograpy	4
MI 401	Seminar in Imaging Sci	1
MI 403	Adv Practice Medical Img (WI)	3
MI 410	Research Medical Imaging (C)	3
MI 411	Transcultural Healthcare (WI, MC)	3
MI 419	Clinical Prac III Sonography	4
MI 422	Clinical Pract IV Sonography	4
Advanced Modality Track		
Beginning in Spring of Year 3, students in the sonography area of emphasis must choose one of the following two advanced modality tracks:		10-12
General/OB-GYN Sonography (10 hours)		
Cardiovascular Sonography (12 hours)		

Major Information

- Students in the Medical Imaging Program must maintain a minimum GPA of 2.50 and receive a grade of *C* or better in all MI coursework.
- All applicants must meet the professional guidelines established by the ARRT to sit for particular certification examinations.
- By Year 3, students must choose to continue in the radiography area of emphasis or apply to the competitive sonography area of emphasis. This academic map outlines the curriculum for those who are accepted into the sonography area of emphasis.

Four Year Plan

St. Mary's School of Medical Imaging (SOMI) is a hospital-based program, partnered with Marshall University to offer a Bachelor of Science in Medical Imaging. The program curriculum is designed to prepare students to practice radiography/sonography and introduce students to related specialized imaging modalities. The program can be completed in four years. Credentialed Radiographers may enter the professional portion of the program (fourth year) and also obtain the degree.

Course	Title	Credit Hours
First Year		
First Semester		
CMM 103	Fund Speech-Communication	3
ENG 101	Beginning Composition	3
MTH 121	Concepts and Applications (CT)	3
BSC 227	Human Anatomy	3
BSC 227L	Human Anatomy Lab	1
CLS 105	Medical-Lab Terminology (CT)	3
UNI 100	Freshman First Class	1
	Credit Hours	**17**
Second Semester		
BSC 228	Human Physiology	3
BSC 228L	Human Physiology Lab	1
ENG 201	Advanced Composition	3
FYS 100	First Yr Sem Critical Thinking	3
Core II Social Science		3
PHY 101	Conceptual Physics	3
PHY 101L	Conceptual Physics Lab	1
	Credit Hours	**17**
Second Year		
First Semester		
MI 201	Intro to Radiography	3
MI 202	Patient Care Img Science	3
MI 204	Radiographic Anatomy	3
MI 205	Imaging Procedures I	4
MI 206	Clinical Practice I	4
MI 211	Seminar Imaging Science	1
	Credit Hours	**18**
Second Semester		
Core II Humanities		3
MI 207	Imaging Procedures II	4
MI 208	Pharmacology for Imaging Sci	2
MI 209	Intro to Imaging Equip	3
MI 210	Clinical Practice II	4
MI 212	Seminar Imaging Sciences II	1
	Credit Hours	**17**
Third Year		
First Semester		
MI 312	Abdominal Sonography I	4
MI 313	Ultrasound Physics I	3
MI 314	Clinical Practice I Sonography	4
MI 318	Vascular Sonography I	4
MI 306	Seminar Imaging Science	1
MI 315	Small Parts Sonography	3
	Credit Hours	**19**
Second Semester		
MI 316	Abdominal Sonography II	3
MI 317	Ultrasound Physics II	3
MI 319	Clinical Prac II Sonograpy	4
MI 311	Seminar Imaging Sciences III	1
Statistics		3
See Advanced Modality Track		3
	Credit Hours	**17**
Fourth Year		
First Semester		
MI 403	Adv Practice Medical Img (WI)	3
MI 419	Clinical Prac III Sonography	4
Core II Fine Arts		3
See Advanced Modality Track		3-5
	Credit Hours	**13-15**

Second Semester		
MI 410	Research Medical Imaging (C)	3
MI 411	Transcultural Healthcare (WI, MC)	3
MI 422	Clinical Pract IV Sonography	4
MI 401	Seminar in Imaging Sci	1
See Advanced Modality Track		2-6
	Credit Hours	**13-17**
	Total Credit Hours	**131-137**

Medical Imaging, Emphasis - Cardiovascular/ Interventional Advanced Practice

Major

In Year 4, students in the radiography area of emphasis must choose one of the four advanced modality tracks.

Code	Title	Credit Hours
MI 401	Seminar in Imaging Sci	1
MI 402	Quality Management	3
MI 403	Adv Practice Medical Img	3
MI 407	Cardiovascular Anatomy	3
MI 408	Vascular Interventional Img	3
MI 409	Adv Clinical Practice	4
MI 410	Research Medical Imaging	3
MI 411	Transcultural Healthcare	3
MI 426	Advanced Clinical Practice II	4
ACLS Certification		
Total Credit Hours		**27**

Medical Imaging, Emphasis - CT MRI Advanced Practice

Major

In Year 4, students in the radiography area of emphasis must choose one of the four advanced modality tracks.

Code	Title	Credit Hours
MI 401	Seminar in Imaging Sci	1
MI 402	Quality Management	3
MI 403	Adv Practice Medical Img	3
MI 404	Adv Sectional Anatomy	3
MI 405	CT Procedures	3
or MI 406	MRI Procedures	
MI 409	Adv Clinical Practice	4
MI 410	Research Medical Imaging	3
MI 411	Transcultural Healthcare	3
MI 415	RIS and PACS Principles	3
ACLS certification		
Total Credit Hours		**26**

Medical Imaging, Emphasis - Mammography

Major

In Year 4, students in the radiography area of emphasis must choose one of the four advanced modality tracks.

Code	Title	Credit Hours
MI 401	Seminar in Imaging Sci	1
MI 402	Quality Management	3
MI 403	Adv Practice Medical Img	3
MI 409	Adv Clinical Practice	4
MI 410	Research Medical Imaging	3
MI 411	Transcultural Healthcare	3
MI 414	Mammography	3
MI 426	Advanced Clinical Practice II	4
MI 430	Mammography II	3
ACLS certification		
Total Credit Hours		**27**

Medical Imaging, Emphasis - Medical Imaging Management Advanced Practice

Major

(limited to professional radiographers only)

In Year 4, students in the radiography area of emphasis must choose one of the four advanced modality tracks.

Code	Title	Credit Hours
MI 401	Seminar in Imaging Sci	1
MI 402	Quality Management	3
MI 403	Adv Practice Medical Img	3
MI 409	Adv Clinical Practice	4
MI 410	Research Medical Imaging	3
MI 411	Transcultural Healthcare	3
MI 412	Radiography Management I	3
MI 413	Radiography Management II	3
MI 415	RIS and PACS Principles	3
MI 426	Advanced Clinical Practice II	4
Total Credit Hours		**30**

Sonography, Emphasis - Cardiovascular Sonography

Major

Beginning in Spring of Year 3, students in the sonography area of emphasis must choose one of the two advanced modality tracks.

- Year 3 / Spring: MI 424 Vascular Sonography II
- Year 4 / Fall: MI 423 Echocardiography I
- Year 4 / Spring: MI 407 Cardiovascular Anatomy and MI 425 Echocardiography II

Nursing - Associate Degree

Contacts: Vice President of Schools of Nursing and Health Professions: Dr. Joey Trader, Ed.D. , M.S.N., RN, CNE
Website: http://www.st-marys.org

https://www.st-marys.org/education-training/center-for-education/

Vice President of Schools of Nursing and Health Professions: Dr. Joey Trader, Ed.D. , M.S.N., RN, CNE

The Associate in Science in Nursing Program is a cooperative effort between the Marshall University College of Health Professions and St. Mary's School of Nursing. This program may be completed in two academic years and requires 72 credit hours. General education courses are offered on the Marshall University Huntington campus and nursing courses are offered at St. Mary's School of Nursing at the Center for Education at St. Mary's Medical Center at 2853 5th Avenue, Huntington, WV 25702. Graduates of this program receive an Associate in Science in Nursing degree from Marshall University and are eligible to make application to the National Council Licensure Examination for Registered Nurses (NCLEX-RN).

Please call Dr. Trader at 304-526-1416 or e-mail to jtrader@st-marys.org for questions regarding the Associate in Science in Nursing program.

Accreditation

"The Associate Degree nursing program at St. Mary's/Marshall University Associate of Science in Nursing Program located in Huntington, West Virginia is accredited by the:

> Accreditation Commission for Education in Nursing (ACEN)
> 3390 Peachtree Road NE, Suite 1400 Atlanta, GA 30326
> 404-975-5000

The most recent accreditation decision made by the ACEN Board of Commissioners for the St. Mary's/Marshall University Cooperative Associate of Science in Nursing program is Continuing Accreditation.

–View the public information disclosed by the ACEN regarding this program at http://www.acenursing.us/accreditedprograms/programSearch.htm

Admission Requirements

All applicants must be either a graduate of an accredited high school or have a high school equivalent through GED testing. All applicants are encouraged to take the ACT and submit results to St. Mary's School of Nursing. Applicants are admitted twice a year for classes beginning in August or January.

High School Seniors and Applicants Who Have Completed Fewer than 12 College Credit Hours Must Have:

- A minimum high school GPA of 3.0
- A minimum of *C* on all college courses completed

The Following High School Courses are Strongly Recommended:

- English - 4 units
- Science - 3 units (chemistry, biology I and biology II)
- Math - 2 units (one should be algebra)
- Social Studies - 3 units

Applicants Who Have Completed at Least 12 College Credit Hours Must Have:

- A minimum of *C* on each required non-nursing course completed
- An overall 2.0 GPA (*C* average) or better on **all** courses completed
- An overall 2.0 GPA on all courses completed at Marshall University
- Taken 12 college semester credit hours at the 100 level or above for a grade

GED Applicants Must:

- Meet criteria for GED admission as stated in the Marshall University undergraduate catalog
- Have completed at least 12 college credit hours at the 100 level and earned grades of *C* or above
- Meet criteria for applicants who have completed at least 12 college credit hours

Tuition Assistance Program

The Marshall University Employee Dependent Undergraduate Tuition Assistance Program cannot be used to cover the tuition and fees of the St. Mary's/Marshall University cooperative programs, which include medical imaging, nursing, and respiratory care. These programs are classified as third-party waiver programs, which are exempted from the Employee Dependent Tuition Assistance Program.

Admission Requirements

All applicants must be either a graduate of an accredited high school or have a high school equivalent through GED testing. All applicants are encouraged to take the ACT and submit results to St. Mary's School of Nursing. Applicants are admitted twice a year for classes beginning in August or January.

High School Seniors and Applicants Who Have Completed Fewer than 12 College Credit Hours Must Have:

- A minimum high school GPA of 3.0
- A minimum of *C* on all college courses completed

The Following High School Courses are Strongly Recommended:

- English - 4 units
- Science - 3 units (chemistry, biology I and biology II)

- Math - 2 units (one should be algebra)
- Social Studies - 3 units

Applicants Who Have Completed at Least 12 College Credit Hours Must Have:

- A minimum of *C* on each required non-nursing course completed
- An overall 2.0 GPA (*C* average) or better on **all** courses completed
- An overall 2.0 GPA on all courses completed at Marshall University
- Taken 12 college semester credit hours at the 100 level or above for a grade

GED Applicants Must:

- Meet criteria for GED admission as stated in the Marshall University undergraduate catalog
- Have completed at least 12 college credit hours at the 100 level and earned grades of *C* or above
- Meet criteria for applicants who have completed at least 12 college credit hours

Students fully admitted into the A.S.N. program are exempt from the Core and instead complete a customized general education, as noted below.

Code	Title	Credit Hours
General Education		
ENG 101	Beginning Composition [1]	3
ENG 201	Advanced Composition	3
CHM 205	General, Organic, and Biochem [1]	3
PSY 201	Introductory Psychology (CT) [1]	3
BSC 227 & BSC 227L	Human Anatomy and Human Anatomy Lab [1]	4
BSC 228 & BSC 228L	Human Physiology and Human Physiology Lab	4
Major-Specific		
BSC 250	Microbiol & Human Disease	4
DTS 210	Nutrition	3
PSY 311	Child Development	3
NUR 120	Introduction to Nursing	8
NUR 220	Health Alterations I	8
NUR 225	Psychiatric Nursing	4
NUR 230	Health Alterations II	7
NUR 235	Maternal-Child Nursing	6
NUR 241	Health Alterations III	9

[1] Prior to taking the first nursing course, students must have completed these courses. Because these courses are pre-requisites to admission in the ASN, these courses are not reflected in the two-year plan.

Major Information

- Students are required to know and track their degree requirements for graduation or for entrance to a professional school.
- Course offerings and course attributes are subject to change semesters. Please consult each semester's schedule of courses for availability and attributes.
- Every NUR course is taught every semester and the support courses are taught as such as well.

Courses

NUR 120 Introduction to Nursing **8 Credit hours**
Indroduce the nursing role and use of the nursing process in assisting adult clients to meet basic needs. Clinical included. Indroduce the nursing role and use of the nursing process in assisting adult clients to meet basic needs. Clinical in- cluded.
Pre-req: BSC 227 with a minimum grade of C and CHM 205 with a minimum grade of C and ENG 101 with a minimum grade of C and PSY 201 with a minimum grade of C and BSC 228 (may be taken concurrently) with a minimum grade of C and DTS 210 (may be taken concurrently) with a minimum grade of C and PSY 311 (may be taken concurrently) with a minimum grade of C.
Concurrent PR: BSC 228 and DTS 210 and PSY 311
Grade Mode: Normal Grading Mode

NUR 220 Health Alterations I **8 Credit hours**
Focus is on nursing care of adult clients responding to potential and actual health alterations. Clinical included. (PR: NUR 120) Focus is on nursing care of adult clients responding to potential and actual health alterations. Clinical included. (PR: NUR 120)
Pre-req: NUR 120 with a minimum grade of C and BSC 250 (may be taken concurrently) with a minimum grade of C.
Concurrent PR: BSC 250
Grade Mode: Normal Grading Mode

NUR 225 Psychiatric Nursing **4 Credit hours**
Focus is on the nursing role in caring for clients with alterations of psychosocial functioning. Clinical included. (PR: NUR 220) Focus is on the nursing role in caring for clients with alterations of psychosocial functioning. Clinical included. (PR: NUR 220)
Pre-req: NUR 120 with a minimum grade of C.
Grade Mode: Normal Grading Mode

NUR 230 Health Alterations II **7 Credit hours**
Focus is on nursing care of adult clients with health alterations of specific physiological systems. Role requirements and processes utilized in managing groups of clients in introduced. Clinical included. (PR: NUR 220) 5 hours theory/ 2 hours lab. Focus is on nursing care of adult clients with health alterations of specific physiological systems. Role requirements and processes utilized in managing groups of clients in introduced. Clinical included. (PR: NUR 220) 5 hours theory/ 2 hours lab.
Pre-req: NUR 120 with a minimum grade of C and NUR 220 with a minimum grade of C.
Grade Mode: Normal Grading Mode

NUR 235 Maternal-Child Nursing **6 Credit hours**
Focus is on the nursing role utilized in promoting health and caring for the child bearing family and pediatric clients. Clinical included. (PR: NUR 220) Focus is on the nursing role utilized in promoting health and caring for the child bearing family and pediatric clients. Clinical included. (PR: NUR 220)
Pre-req: NUR 220 with a minimum grade of C and NUR 225 with a minimum grade of C.
Grade Mode: Normal Grading Mode

NUR 241 Health Alterations III **9 Credit hours**
focus is on nursing care of adult clients with health alterations of specific physiological systems. Clinical included. (PR: NUR 230) focus is on nursing care of adult clients with health alterations of specific physiological systems. Clinical included. (PR: NUR 230)
Pre-req: NUR 230 with a minimum grade of C and NUR 235 with a minimum grade of C.
Grade Mode: Normal Grading Mode

- General Education Course

Courses to be Completed prior to ASN Major

These courses MUST be completed prior to entering the A.S.N. major and can be taken during summer, fall or spring semester, depending on class availability.

Code	Title	Credit Hours
ENG 101	Beginning Composition	3
CHM 205	General, Organic, and Biochem	3
PSY 201	Introductory Psychology (CT)	3
BSC 227	Human Anatomy	3
BSC 227L	Human Anatomy Lab	1
Total Credit Hours		**13**

Two Year Plan

The Associate in Science in Nursing Program is a cooperative effort between the Marshall University College of Health Professions and St. Mary's School of Nursing. This program may be completed in two academic years and requires 72 credit hours. General education courses are offered on the Marshall University campus and nursing courses are offered at St. Mary's School of Nursing. Graduates of this program receive an Associate in Science in Nursing degree from Marshall University and are eligible to make application to the National Council Licensure Examination for Registered Nurses (NCLEX-RN).

Course	Title	Credit Hours
First Year		
First Semester		
NUR 120	Introduction to Nursing	8
BSC 228	Human Physiology	3
BSC 228L	Human Physiology Lab	1
PSY 311	Child Development	3
DTS 210	Nutrition (or DTS 314)	3
	Credit Hours	**18**
Second Semester		
BSC 250	Microbiol & Human Disease	3
BSC 250L	Microbio and Human Disease Lab	1
NUR 220	Health Alterations I	8
NUR 225	Psychiatric Nursing	4
	Credit Hours	**16**
Second Year		
First Semester		
NUR 230	Health Alterations II	7
NUR 235	Maternal-Child Nursing	6
	Credit Hours	**13**
Second Semester		
NUR 241	Health Alterations III	9
ENG 201	Advanced Composition	3
	Credit Hours	**12**
	Total Credit Hours	**59**

Nursing - Bachelor's Degrees

Contacts: Dr. Denise Landry, Chair
Website: http://www.marshall.edu/cohp (http://www.marshall.edu/cohp/)

Nursing education has been offered at Marshall University since the inception of an associate degree program in 1960. On July 1, 1978, a School of Nursing was formally established and now, as a member of the College of Health Professions, it is an integral part of the academic health sciences at Marshall University. The primary objective of the nursing program is to respond to the nursing educational needs in the region. It offers a pre-licensure Bachelor of Science in Nursing program, an RN to B.S.N. program and a Master of Science in Nursing program with five areas of emphasis - Family Nurse Practitioner, Nursing Administration, Nursing Education, Nurse Midwifery, and Psychiatric Mental Health Nurse Practitioner. The B.S.N. and M.S.N programs are accredited by the Accreditation Commission for Education in Nursing, Inc. (3343 Peachtree Road N.E., Suite 850; Atlanta, GA 30326. 404-975-5000; www.acenursing.org (http://www.acenursing.org)).

Programs

- Nursing, B.A./B.S. to B.S.N. (p. 549)
- Nursing, Pre-Licensure, B.S.N. (p. 550)
- Nursing, RN to B.S.N. Online Program (p. 554)

Courses

- General Education Course

NUR 200 Intro to Professional Nursing **2 Credit hours**
Introduction to the concepts and processes basic to the nursing profession, including historical and legal aspects, career roles, medical terminology, and practical techniques to prepare for the baccalaureate nursing program.
Grade Mode: Normal Grading Mode

NUR 219 Health Promotion Thru Lifespan **3 Credit hours**
Study of nursing assessment of the individual through the life span in relation to wellness promotion and the impact of illness. Study of nursing assessment of the individual through the life span in relation to wellness promotion and the impact of illness.
Pre-req: (MTH 121 with a minimum grade of C or MTH 121B with a minimum grade of C or MTH 125 with a minimum grade of C or MTH 127 with a minimum grade of C or MTH 130 with a minimum grade of C) and ENG 101 with a minimum grade of C and BSC 227 with a minimum grade of C and BSC 228 with a minimum grade of C and (CHM 203 with a minimum grade of C or CHM 205 with a minimum grade of C) and PSY 201 with a minimum grade of C and NUR 221 (may be taken concurrently) with a minimum grade of C and (CMM 213 with a minimum grade of C or CMM 103 with a minimum grade of C or CMM 104H with a minimum grade of C).
Concurrent PR: NUR 221
Grade Mode: Normal Grading Mode

NUR 221 Found of Prof Nursing I **5 Credit hours**
Introduction to philosophical and theoretical foundations of nursing, exploration and integration of concepts and processes basic to professional nursing practice. Laboratory included. Introduction to philosophical and theoretical foundations of nursing, exploration and integration of concepts and processes basic to professional nursing practice. Labora- tory included.
Pre-req: (MTH 121 with a minimum grade of C or MTH 121B with a minimum grade of C or MTH 125 with a minimum grade of C or MTH 127 with a minimum grade of C or MTH 130 with a minimum grade of C) and BSC 227 with a minimum grade of C and BSC 228 with a minimum grade of C and (CHM 203 with a minimum grade of C or CHM 205 with a minimum grade of C) and PSY 201 with a minimum grade of C and NUR 219 (may be taken concurrently) with a minimum grade of C and ENG 101 with a minimum grade of C and (CMM 103 with a minimum grade of C or CMM 104H with a minimum grade of C or CMM 213 with a minimum grade of C).
Concurrent PR: NUR 219
Grade Mode: Normal Grading Mode

NUR 222 Found of Prof Nursing II **6 Credit hours**
Introduction to professional nursing practice in relation to potential and simple alterations in health. Practicum included. Introduction to professional nursing practice in relation to potential and simple alterations in health. Practicum included.
Pre-req: NUR 221 with a minimum grade of C and NUR 219 with a minimum grade of C and NUR 319 (may be taken concurrently) with a minimum grade of C and BSC 250 (may be taken concurrently) with a minimum grade of C.
Concurrent PR: NUR 319 and BSC 250
Grade Mode: Normal Grading Mode

NUR 223 Intro Nur Pharm **3 Credit hours**
Focus is on role of the Associate degree nurse in understanding the human response to pharmacological therapy.
Grade Mode: Normal Grading Mode

NUR 280 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

NUR 281 Special Topics **1-4 Credit hours**
Grade Mode: Credit/No Credit Grade Only

NUR 282 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

NUR 283 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

NUR 305 Concepts in Prof Nursing **4 Credit hours**
Discussion of nursing conceptual models. Dynamic concepts of health, nursing process, change, teaching/learning, research and leadership introduced. Exercises in communication/assertiveness skill development. (PR: Admission to RN to B.S.N. Nursing Program) 4 lec.
Grade Mode: Normal Grading Mode

NUR 318 Family and Chronic Illness **2 Credit hours**
Focus in family nursing theory related to human responses utilizing theoretical models for assessment and health promotion. Included is consideration of the impact of chronic illness.
Pre-req: NUR 305 (may be taken concurrently) with a minimum grade of C or (NUR 219 with a minimum grade of C and NUR 221 with a minimum grade of C) and (ENG 201 with a minimum grade of C or ENG 201H with a minimum grade of C or ENG 200H with a minimum grade of C).
Concurrent PR: NUR 305
Grade Mode: Normal Grading Mode

NUR 319 Phys Assess Across Lifespan **4 Credit hours**
Development of skills in taking health history and performing physical examination of clients throughout the life span. Practicum included. Development of skills in taking health history and perform- ing physical examination of clients throughout the life span. Practicum included.
Pre-req: NUR 221 with a minimum grade of C and NUR 219 with a minimum grade of C and NUR 222 (may be taken concurrently) with a minimum grade of C.
Concurrent PR: NUR 222
Grade Mode: Normal Grading Mode

NUR 321 Care of Childbearing Families **5 Credit hours**
Focus of nursing is on the diagnosis and treatment of human responses to changes that occur in the expanding family. Practicum included. Focus of nursing is on the diagnosis and treatment of human responses to changes that occur in the expanding family. Practicum included.
Pre-req: NUR 222 with a minimum grade of C and NUR 319 with a minimum grade of C and (ENG 201 with a minimum grade of C or ENG 200H with a minimum grade of C or ENG 201H with a minimum grade of C) and BSC 250 with a minimum grade of C and (DTS 314 with a minimum grade of C or DTS 210 with a minimum grade of C) and NUR 318 (may be taken concurrently) with a minimum grade of C.
Concurrent PR: NUR 318
Grade Mode: Normal Grading Mode

NUR 322 Psych / Mental Health Nursing **5 Credit hours**
Focus is upon nursing care of clients of all ages in relation to human responses to psychosocial problems. Focus is upon nursing care of clients of all ages in relation to human responses to psychosocial problems.
Pre-req: NUR 222 with a minimum grade of C and NUR 319 with a minimum grade of C and (ENG 201 with a minimum grade of C or ENG 200H with a minimum grade of C or ENG 201H with a minimum grade of C) and BSC 250 with a minimum grade of C and (DTS 314 with a minimum grade of C or DTS 210 with a minimum grade of C).
Grade Mode: Normal Grading Mode

NUR 327 Adult Nursing I **5 Credit hours**
Focus is on nursing care of clients from young to geriatric adults responding to health problems. Practicum included.
Pre-req: NUR 222 with a minimum grade of C and NUR 319 with a minimum grade of C and ENG 201 with a minimum grade of C and BSC 250 with a minimum grade of C and (DTS 314 with a minimum grade of C or DTS 210 with a minimum grade of C) and NUR 350 (may be taken concurrently) with a minimum grade of C.
Concurrent PR: NUR 350
Grade Mode: Normal Grading Mode

NUR 328 Adult Nursing II **5 Credit hours**
Focus is on nursing care of clients from young to geriatric adults responding to increasingly complex health care problems. Practicum included.
Pre-req: NUR 318 with a minimum grade of C and NUR 327 with a minimum grade of C and NUR 350 with a minimum grade of C.
Grade Mode: Normal Grading Mode

NUR 333 Health Physical Assessment **3 Credit hours**
Focus on providing nurses with the knowledge base and clinical skills necessary to obtain in-depth health histories and complete physical assessments of clients of various ages and cultural backgrounds. (PR: admission to RN to B.S.N. nursing program or Permission)
Pre-req: NUR 305 (may be taken concurrently).
Concurrent PR: NUR 305
Grade Mode: Normal Grading Mode

NUR 350 Pharmacology for Nurses **3 Credit hours**
Focus in on the role of the nurse in drug therapy. Specific drug classifications and prototypical drugs, their actions, effects, and nursing implications are described in-depth.
Pre-req: NUR 222 with a minimum grade of C.
Grade Mode: Normal Grading Mode

NUR 400 Transcultural Nursing **3 Credit hours**
The focus is on health care practices and beliefs of a variety of cultures which interact with the United States health care system. Transcultural nursing theories and concepts are addressed.
Pre-req: NUR 305 (may be taken concurrently) with a minimum grade of C or (NUR 221 with a minimum grade of C and NUR 219 with a minimum grade of C).
Concurrent PR: NUR 305
Attributes: Multicultural
Grade Mode: Normal Grading Mode

NUR 408 Pediatric Nursing **4 Credit hours**
Nursing Care of Children Focus is on nursing care of pediatric clients of all ages and their family's response to common and complex health problems. Practicum included.
Pre-req: NUR 318 with a minimum grade of C and NUR 327 with a minimum grade of C and NUR 350 with a minimum grade of C.
Grade Mode: Normal Grading Mode

NUR 410 Community Nursing for RN **5 Credit hours**
Focus is on the foundations of community-oriented nursing practice for the Registered Nurse with an emphasis on health promotion and disease prevention.
Pre-req: NUR 305 with a minimum grade of C and NUR 318 with a minimum grade of C.
Grade Mode: Normal Grading Mode

NUR 414 Adult Nursing III **5 Credit hours**
Focus is on nursing care of young to geriatric adults responding to health problems requiring critical care intervention. Practicum included.
Pre-req: NUR 328 with a minimum grade of C.
Grade Mode: Normal Grading Mode

NUR 416 Intro Research EBP **3 Credit hours**
Focus is on research as it relates to evidence based practice. This course addresses the steps of research and evidence based practice to provide a basis for nursing practice.
Pre-req: (STA 225 with a minimum grade of C or EDF 417 with a minimum grade of C or MGT 218 with a minimum grade of C or PSY 223 with a minimum grade of C or SOC 345 with a minimum grade of C) and (NUR 305 with a minimum grade of C or NUR 327 with a minimum grade of C).
Grade Mode: Normal Grading Mode

NUR 418 Contemporary Nursing **3 Credit hours**
This course focuses on nursing leadership, cost-based care, and the professional role of the nurse within a complex health care system.
Pre-req: NUR 305 with a minimum grade of C.
Grade Mode: Normal Grading Mode

NUR 419 Prof Nursing Practice **3 Credit hours**
Focus on nursing leadership, the management of patient care, and issues inherent to professional nursing practice.
Pre-req: NUR 328 with a minimum grade of C and NUR 414 (may be taken concurrently) with a minimum grade of C.
Concurrent PR: NUR 414
Grade Mode: Normal Grading Mode

NUR 421 Community / Public Health Nurs **5 Credit hours**
Focus is upon public health principles and nursing practice with opportunity to provide health promotion for clients at risk and long term care for individuals and families in the home. Focus is upon public health principles and nursing practice with opportunity to provide health promotion for clients at risk and long term care for individuals and families in the home.
Pre-req: NUR 321 with a minimum grade of C and NUR 322 with a minimum grade of C and NUR 328 with a minimum grade of C and NUR 350 with a minimum grade of C and NUR 408 with a minimum grade of C.
Grade Mode: Normal Grading Mode

NUR 422 Nursing Capstone Practicum **5 Credit hours**
Focus in on leadership activities related to the roles of the professional nurse: provider of care, coordinator of care, and member of the profession. Practicum included. Focus in on leadership activities related to the roles of the professional nurse: provider of care, coordinator of care, and member of the profession. Practicum included.
Pre-req: (NUR 321 with a minimum grade of C and NUR 322 with a minimum grade of C and NUR 414 with a minimum grade of C and NUR 350 with a minimum grade of C) and NUR 421 (may be taken concurrently) with a minimum grade of C and NUR 425 (may be taken concurrently) with a minimum grade of C.
Concurrent PR: NUR 421 and NUR 425
Attributes: Capstone Course
Grade Mode: Normal Grading Mode

NUR 425 NCLEX Success **3 Credit hours**
The purpose of this course is to assist the student to synthesize the content of the baccalaureate nursing educational program.
Pre-req: NUR 422 (may be taken concurrently) with a minimum grade of C.
Concurrent PR: NUR 422
Attributes: Capstone Course
Grade Mode: Normal Grading Mode

NUR 427 Prof Engagement Nursing **5 Credit hours**
Focus is on evidence based practice and application of theoretical and empirical knowledge to address issues in management, health care policy, ethics, leadership, and health promotion of clients. (PR: NUR 305 and RN licensure; PR/CR: NUR 410, NUR 416, NUR 418))
Pre-req: NUR 410 (may be taken concurrently) with a minimum grade of C and NUR 416 (may be taken concurrently) with a minimum grade of C and NUR 418 (may be taken concurrently) with a minimum grade of C.
Concurrent PR: NUR 410 and NUR 416 and NUR 418
Attributes: Capstone Course
Grade Mode: Normal Grading Mode

NUR 480 Special Topics **1-4 Credit hours**
Study of topics not available in other courses. Study of topics not available in other courses.
Grade Mode: Normal Grading Mode

NUR 481 Special Topics **1-4 Credit hours**
Study of topics not available in other courses. Study of topics not available in other courses.
Grade Mode: Normal Grading Mode

NUR 482 Special Topics **1-4 Credit hours**
Study of topics not available in other courses. Study of topics not available in other courses.
Grade Mode: Normal Grading Mode

NUR 483 Special Topics **1-4 Credit hours**
Study of topics not available in other courses. Study of topics not available in other courses.
Grade Mode: Normal Grading Mode

NUR 485 Independent Study **1-4 Credit hours**
Attributes: No Textbook Required
Grade Mode: Normal Grading Mode

NUR 486 Independent Study **1-4 Credit hours**
Grade Mode: Normal Grading Mode

NUR 487 Independent Study **1-4 Credit hours**
Grade Mode: Normal Grading Mode

NUR 488 Independent Study **1-4 Credit hours**
Grade Mode: Normal Grading Mode

NUR 496 Reading for Honors **2-4 Credit hours**
Attributes: Honors
Grade Mode: Normal Grading Mode

Faculty

Professors
Appleton, Elkins, Landry, Pope, Prunty, Ramsburg, Stotts

Associate Professors
Dyer, Ferguson, Greene, Imes, Minor, Taylor, Welch

Assistant Professors
Brown, McFann, Perry, Sun

Clinical Faculty
Hodges

Nursing, B.A./B.S. to B.S.N.

Provides individuals with a Bachelor of Arts (B.A.) or Bachelor of Science (B.S.) degree the opportunity to obtain a bachelor's degree in nursing (B.S.N.) in 16 months of full-time study. (Program offered at the South Charleston campus.)

Admission Requirements

1. Earned baccalaureate degree from an accepted, accredited higher education institution.
2. A minimum overall college GPA of 3.0 and a cumulative GPA of 3.0 or higher in required prerequisite courses, both on a 4.0 scale.
3. Applicants with less than an overall college 3.0 GPA or cumulative 3.0 GPA in required prerequisite courses may be considered for admission on a case-by-case basis, as capacity allows.
4. The B.A./B.S. to B.S.N. program does not accept credits from previous nursing courses taken; accordingly, 100% of the nursing credits for the B.A./B.S. to B.S.N.degree will be earned at Marshall University
5. Applicants must be admitted to Marshall University, as degree-seeking transfer students, prior to applying to the B.A./B.S. to B.S.N. program.
6. All required prerequisite, non-nursing courses must be completed with a grade of *C* or better.
   Prerequisite courses would include English Composition (6); Marshall University Math 121 or higher (or equivalent) (3); Introductory Psychology (3); Introductory Chemistry (3); Developmental Psychology (3) or Human Growth and Development (3); Human Anatomy (3-4); Human Physiology (3-4); Microbiology (3-4); Statistics at 200 level or higher (3); and Nutrition (3).

Course	Title	Credit Hours
First Year		
Spring		
NUR 300	Transition to Nursing	3
NUR 314	Fundamentals of Nursing Care	7
NUR 319	Phys Assess Across Lifespan	4
NUR 350	Pharmacology for Nurses	3
	Credit Hours	**17**
Summer		
NUR 318	Family and Chronic Illness	2
NUR 315	Medical/Surgical Nursing I	7
NUR 322	Psych / Mental Health Nursing	5
NUR 416	Intro Research EBP	3
	Credit Hours	**17**
Second Year		
Fall		
NUR 321	Care of Childbearing Families	5
NUR 408	Pediatric Nursing	4
NUR 404	Management and Leadership in Nursing	2

NUR 411	Medical/Surgical Nursing II	7
	Credit Hours	**18**
Spring		
NUR 400	Transcultural Nursing	3
NUR 421	Community / Public Health Nurs	5
NUR 422	Nursing Capstone Practicum	5
NUR 425	NCLEX Success	3
	Credit Hours	**16**
	Total Credit Hours	**68**

Nursing, Pre-Licensure, B.S.N.

The four-year baccalaureate program in nursing prepares professional nurse generalists to work with individuals, families, groups, and communities in a variety of health care settings. The program is available to qualified high school graduates, college students and college graduates. Graduates of the program meet the education requirement to apply to take the National Registered Nurse Licensing Exam (NCLEX-RN).

Baccalaureate nursing education provides a foundation in the humanities and the biological, social and behavioral sciences. Students are able to apply this foundation, as well as a strong base in nursing science, to the professional practice of nursing. In addition to achieving the professional goals of the nursing program, students also become responsible members of society and are required to complete the university general education core requirements.

The program includes a clinical practice component which gives students opportunity to apply nursing theory and skills in caring for individuals, families, groups, and communities in clinical health care settings. The program uses Cabell Huntington Hospital, River Park Hospital, St. Mary's Medical Center, the Veterans Administration Medical Center, Mildred Mitchell Bateman Hospital, Encompass Health, Charleston Area Medical Center (CAMC), King's Daughters Medical Center (Ashland, Ky.), Pleasant Valley Hospital (Point Pleasant, W.Va.), Holzer Medical Center (Gallipolis, Ohio) and others for clinical experiences. In addition, various clinics, doctors' offices, health departments and schools are used for student clinical experiences. Students are required to provide their own transportation to clinical experiences. Clinicals may be scheduled any day of the week and any time of the day.

Admission

Admission is determined on a competitive basis at each entry level. The total number of students admitted to the program is based upon available facilities and faculty.

Students are admitted to the pre-licensure B.S.N. program once per year for the fall semester. Qualified applicants are selected for fall admission beginning after the January 15 application deadline and continuing until all spaces in the class are filled.

Admission Requirements for Pre-Licensure B.S.N. Program

- Currently enrolled high school seniors are eligible to apply for **freshman-level standing** in the nursing program.
- High school seniors must meet the general admission requirements of Marshall University.
- High school seniors must have a composite score of 21 or higher on the ACT, **and** a Grade Point Average on high school coursework at the completion of their junior year of at least 2.5 or higher, with consideration given to college preparatory courses. Automatic admission is given to high school seniors with ACT composite scores of 24 or higher *and* high school GPAs of 2.5 or higher.
- Current or previous college students and college graduates are eligible to apply for **sophomore-level standing** in the nursing program. College students must have a Grade Point Average of at least 2.5 or higher on 12 or more hours of college work with consideration given to specific science and math courses. Grades and credits from developmental courses are not considered.
- College students may apply for sophomore-level standing if they have had, or will have, satisfactorily completed (with a *C* or higher), all freshman-level courses by July 15 of the year they apply. Students who anticipate that they will meet these requirements, but are unable to do so, must reapply for admission to the program.

Application Process

Freshman-Level Standing/Sophomore-Level Standing

1. Apply for admission to Marshall University.
2. Also apply for admission to the Nursing program, College of Health Professions: form online at www.marshall.edu/nursing/degrees/bachelors/admission (http://www.marshall.edu/nursing/degrees/bachelors/admission/).
3. Submit *official* transcripts from **all** schools attended to *both* the university and Nursing program.
   a. High school students should obtain two (2) official copies of their high school transcript and ACT scores. One copy of the ACT scores and transcript should be sent to the School of Nursing and one to the Office of Admissions of Marshall University. Transcripts must at a minimum include all junior year courses and cumulative GPA. Applicants have the option of sending transcripts that include the first semester of the senior year for consideration of science courses taken or improved GPA during that time.
   b. College students must submit two (2) official copies of transcripts from all colleges attended, if not currently attending Marshall. Send one copy to the School of Nursing and one to the Office of Admissions of Marshall University. College transcripts must include the last semester attended. Current Marshall students need not send transcripts as long as all coursework taken at other colleges/universities has been transferred to Marshall University.

Admission Requirements for Advanced Placement

This level is for students who are requesting to transfer from a **baccalaureate** nursing program and who want to receive credit for their previous nursing education. Admission to this level is based on available space. Applicants requesting advanced placement to this level must:

- Meet the general admission requirements of Marshall University.
- Document completion of two or more years of college credit in a **baccalaureate** nursing program with a 2.5 or higher Grade Point Average on all college-level work.
- Provide proof of completion of courses required prior to transfer level.
- Submit course syllabi and other materials that describe the nursing courses taken. Nursing courses will be evaluated by the Admissions, Progressions, and Graduation Committee to determine credit to be given for these courses and level of entry into the program.
- Arrange for the Dean/Director of the Nursing program at which the student is currently (or was previously) enrolled to submit a letter of good standing.

Advanced Placement: Application Process

1. Apply for admission to Marshall University.
2. Also apply for admission to the Nursing program.
3. Submit two (2) official copies of all college transcripts, one to the School of Nursing and one to the Office of Admissions of Marshall University.
4. Submit course syllabi and other materials that describe the nursing courses taken.
5. Submit a letter of reference from the Dean/Director of nursing program.

Pre-Licensure B.S.N. Program Requirements

Completion of the B.S.N. program requires the completion of 121 semester hours of credits. Credits and grades from developmental courses are not counted.

Acceptance of students in the School of Nursing B.S.N. program is predicated on the understanding that students should be able to complete the curriculum in four years if admitted at the freshman level, and three years if admitted at the sophomore level. Should students need to slow their program plan, for whatever reason (leave of absence, to delay progression due to economic or academic reasons, request to repeat a nursing course, etc.) they must have approval of the Admissions, Progressions, and Graduation Committee.

B.S.N. Academic Policies

1. All Nursing program students admitted to the freshman level must complete the required courses for the freshman year with a *C* or higher by July 15 of the freshman year and maintain a 2.3 overall Grade Point Average. Students who do not complete these minimum requirements will be dropped from the Nursing program and must reapply for admission to the program. Grades and credits from developmental courses are not considered.
2. The Nursing program reserves the right to require withdrawal from nursing of any student whose health, academic record, clinical performance or behavior in nursing is judged unsatisfactory.
3. All students are required to maintain a cumulative GPA of **at least** 2.3. In the event that a student's cumulative GPA falls below 2.3, that student will be placed on probation and will be notified in writing of this action. Students have **one** semester to raise their cumulative GPA to 2.3. During this period, classes taken during the summer would count toward the GPA, but the term would not be counted as the semester. If the GPA remains less than 2.3 at the end of one semester, the student will be **dismissed** from the nursing program.
4. All nursing and required non-nursing courses must be completed with a grade of *C* or higher. Students who earn a grade of less than *C* in a nursing or required non-nursing course **must** repeat that course. Pre-licensure B.S.N. and RN to B.S.N. students may repeat only one nursing course in which a grade of less than *C* is earned with permission of the Admissions, Progressions, and Graduation Committee (pre-licensure B.S.N. students) or the RN to B.S.N. Committee (RN to B.S.N. students). Permission to repeat a nursing course is made on the basis of several factors including, but not necessarily limited to, space availability, overall student performance in the course, academic honesty, and historical course grade.
5. All students who receive a grade of less than *C* in a nursing or required non-nursing course may not progress in nursing courses for which that course is prerequisite.
6. Students who find it necessary for any reason to withdraw from a nursing course must abide by the School of Nursing withdrawal policy as stated in the applicable Nursing Student Handbook (Pre-licensure B.S.N. or RN to B.S.N.) Once starting the sequence of nursing courses, students are expected to progress through the curriculum as shown. Any deviation from the curriculum for whatever reason (Leave of Absence, to delay progression due to economic or academic reasons, request to repeat a nursing course, etc.) must have approval of the Admissions, Progressions, and Graduation Committee (pre-licensure B.S.N. students) or the RN to B.S.N. Committee (RN to B.S.N. students).
7. No more than 9 hours of electives may be taken on a credit/non-credit (pass/fail) basis.
8. All required nursing courses in the pre-licensure and RN to B.S.N. programs must be completed within five (5) years prior to graduation from the program. The five (5) year period begins at the time the first clinical nursing course is taken.
9. Students must be admitted to the School of Nursing in order to enroll in Nursing classes.
10. Other policies are outlined in the Nursing Student Handbook, which can be found online on the School of Nursing website.

Other Policies

1. Evidence of a current satisfactory health certification must be submitted prior to participation in nursing courses having a clinical component for BSN students, and prior to taking any nursing course for RN to BSN students.
2. Starting in the sophomore year of the Pre-Licensure B.S.N. program, or upon admisssion to the RN to B.S.N. program, students must obtain and maintain a current CPR card (Adult, child and Infant with AED). Failure to have a current CPR card on file in the nursing office will result in the student being declared ineligible to begin clinical (Pre-Licensure B.S.N. students) or engage in any activities involving agencies other than the School of Nursing (RN to B.S.N. students). It is the student's responsibility to make sure an active CPR card is on file in the nursing office at all times. If the student attends clinical (Pre-Licensure B.S.N. students) or engages in activities involving agencies other than the School of Nursing (RN to B.S.N. students) without an active CPR card, all clinicals or activities will be given an unsatisfactory grade. Contact the School

of Nursing or go to the School of Nursing website for acceptable courses.

3. Due to restricted enrollment in the Nursing program, students unable to maintain continuous progression must follow the Leave of Absence Policy.
   a. A student must request permission in writing for a leave of absence from the Nursing program. Notification must be at earliest possible time.
   b. The Student Petition for Leave of Absence Form must be submitted to the Chair of the Admissions, Progression and Graduation Committee **no later than three** (3) weeks after the start of the semester in which the student is requesting leave.
   c. If a Leave of Absence is approved, the student must consult with his or her academic advisor to revise the program plan.
   d. Any student who fails to notify the Nursing program of a Leave of Absence will forfeit his or her space in the nursing program and must reapply for admission.
   e. Permission for a leave of absence may be granted for up to one year.
4. Beginning in the sophomore year of the pre-licensure B.S.N. program and prior to admission to the RN to B.S.N. program, students must successfully pass a background check and drug screen. Contact the School of Nursing at 304-696-6751 for more information.
5. Other policies are outlined in the Nursing Student Handbook.

Alternate Sites (Pre-Licensure B.S.N. Program)

Students may take Nursing classes at the Mid-Ohio Valley Center in Point Pleasant. Starting in Fall 2023, students may take nursing classes at Glenville State College

Minor

A minor is not required in this discipline.

Eligibility to Sit for Licensure Exam

To practice registered professional nursing in West Virginia an individual must be licensed by the West Virginia Board of Examiners for Registered Professional Nurses. Students who successfully complete the pre-licensure Bachelor of Science in Nursing program meet the education requirements to apply to take the National Council Licensure Examination for Registered Nurses (NCLEX-RN). However, the Board may refuse to admit persons to its examinations or may refuse to issue a license upon proof that an applicant:

a. is or was guilty of fraud or deceit in procuring or attempting to procure a license to practice registered professional nursing; or
b. has been convicted of a felony; or
c. is unfit or incompetent by reason of negligence, habits or other causes; or
d. is habitually intemperate or is addicted to the use of habit-forming drugs; or
e. is mentally incompetent; or
f. is guilty of conduct derogatory to the morals or standing of the profession of registered nursing; or
g. is practicing or attempting to practice registered professional nursing without a license or registration; or
h. has willfully or repeatedly violated any of the provisions of the licensing law.

A student who wants to take the NCLEX-RN in another state must obtain information regarding requirements and procedures from the agency responsible for professional nurse registration in that state.

Transfer Courses

Transfer courses will be judged in relation to Marshall University courses for acceptability. Evaluation of transfer courses is completed in the Office of Admissions. Please contact that office for questions concerning transfer courses.

- General Education Course

- Milestone course: a key success marker for your major. See your advisor to discuss the importance of this course in your plan of study.

major

The Core Curriculum is designed to foster critical thinking skills and introduce students to basic domains of thinking that transcend disciplines. The Core applies to all majors. Information on specific classes in the Core can be found at https://www.marshall.edu/gened/.

Code	Title	Credit Hours
Core Curriculum		
Core 1: Critical Thinking		
FYS 100	First Yr Sem Critical Thinking	3
PSY 201	Introductory Psychology (CT)	3
MTH 121	Concepts and Applications (CT)	3
Core 2		
ENG 101	Beginning Composition	3
ENG 201	Advanced Composition	3
CMM 213	Fund Interpersonal Com	3
MTH 121	Concepts and Applications (CT)	3
BSC 228	Human Physiology	3
BSC 228L	Human Physiology Lab	1
Core II Humanities		3
PSY 201	Introductory Psychology (CT)	3
Core II Fine Arts		3
Additional University Requirements		
Writing Intensive		3
Writing Intensive		3
NUR 400	Transcultural Nursing (Multicultural or International)	3
NUR 422	Nursing Capstone Practicum (Capstone)	5
Major-Specific		
BSC 227	Human Anatomy	3
BSC 227L	Human Anatomy Lab	1
BSC 228	Human Physiology	3
BSC 228L	Human Physiology Lab	1
BSC 250	Microbiol & Human Disease	3

BSC 250L	Microbio and Human Disease Lab	1
CHM 205	General, Organic, and Biochem	3
CMM 213	Fund Interpersonal Com	3
DTS 210	Nutrition	3
or DTS 314		
Statistics		3
NUR 200	Intro to Professional Nursing	2
NUR 219	Health Promotion Thru Lifespan	3
NUR 221	Found of Prof Nursing I	5
NUR 222	Found of Prof Nursing II	6
NUR 318	Family and Chronic Illness	2
NUR 319	Phys Assess Across Lifespan	4
NUR 321	Care of Childbearing Families	5
NUR 322	Psych / Mental Health Nursing	5
NUR 327	Adult Nursing I	5
NUR 328	Adult Nursing II	5
NUR 350	Pharmacology for Nurses	3
NUR 400	Transcultural Nursing (M/I)	3
NUR 408	Pediatric Nursing	4
NUR 414	Adult Nursing III	5
NUR 416	Intro Research EBP	3
NUR 419	Prof Nursing Practice	3
NUR 421	Community / Public Health Nurs	5
NUR 422	Nursing Capstone Practicum (Capstone)	5
NUR 425	NCLEX Success	3

Major Information

- Students are required to know and track their degree requirements for graduation or for entrance to a professional school.
- Course offerings and course attributes are subject to change semesters. Please consult each semester's schedule of courses for availability and attributes.
- To practice registered professional nursing in West Virginia an individual must be licensed by the West Virginia Board of Examiners for Registered Professional Nurses. Students who successfully complete the Pre-Licensure Bachelor of Science in Nursing program meet the education requirements to apply to take the National Council Licensure Examination for Registered Nurses (NCLEX-RN).
- Starting in the sophomore year of the Pre-Licensure B.S.N. program students must obtain and maintain a current CPR card (Adult, Infant and Child), and TB test. Failure to have a current CPR card and TB test on file in the nursing office will result in the student being declared ineligible to begin clinical.
- In the sophomore year of the Pre-Licensure B.S.N. program students must successfully pass a background check and drug screen. Contact the School of Nursing at 304-696-6751 for more information.
- Completion of the B.S.N. program requires the completion of 121 semester hours of credits. Credits and grades from developmental courses are not counted.

- General Education Course

- Milestone course: a key success marker for your major. See your advisor to discuss the importance of this course in your plan of study.

Four Year Plan

The B.S.N. program is accredited by the Accreditation Commission for Education in Nursing, Inc. The four-year baccalaureate program in nursing prepares professional nurse generalists to work with individuals, families, groups, and communities in a variety of health care settings. The program is available to qualified high school graduates, college students and college graduates. Graduates of the program meet the education requirement to apply to take the National Registered Nurse Licensing Exam (NCLEX-RN).

Course	Title	Credit Hours
First Year		
First Semester		
BSC 227	Human Anatomy	3
BSC 227L	Human Anatomy Lab	1
CHM 205	General, Organic, and Biochem	3
ENG 101	Beginning Composition	3
FYS 100	First Yr Sem Critical Thinking	3
NUR 200	Intro to Professional Nursing	2
UNI 100	Freshman First Class	1
	Credit Hours	**16**
Second Semester		
BSC 228	Human Physiology	3
BSC 228L	Human Physiology Lab	1
CMM 213	Fund Interpersonal Com	3
MTH 121	Concepts and Applications (CT)	3
PSY 201	Introductory Psychology (CT)	3
Writing Intensive		3
	Credit Hours	**16**
Second Year		
First Semester		
BSC 250	Microbiol & Human Disease	3
BSC 250L	Microbio and Human Disease Lab	1
NUR 219	Health Promotion Thru Lifespan	3
NUR 221	Found of Prof Nursing I	5
ENG 201	Advanced Composition	3
	Credit Hours	**15**
Second Semester		
DTS 210	Nutrition	3
NUR 222	Found of Prof Nursing II	6
NUR 319	Phys Assess Across Lifespan	4
Statistics		3
	Credit Hours	**16**
Third Year		
First Semester		
NUR 318	Family and Chronic Illness	2
NUR 321	Care of Childbearing Families	5
NUR 327	Adult Nursing I	5

NUR 350	Pharmacology for Nurses	3
	Credit Hours	**15**
Second Semester		
NUR 322	Psych / Mental Health Nursing	5
NUR 328	Adult Nursing II	5
NUR 408	Pediatric Nursing	4
Core II Humanities (WI)		3
	Credit Hours	**17**
Fourth Year		
First Semester		
NUR 414	Adult Nursing III	5
NUR 419	Prof Nursing Practice	3
NUR 416	Intro Research EBP	3
NUR 400	Transcultural Nursing (M/I)	3
	Credit Hours	**14**
Second Semester		
NUR 421	Community / Public Health Nurs	5
NUR 422	Nursing Capstone Practicum	5
NUR 425	NCLEX Success	3
Core II Fine Arts		3
	Credit Hours	**16**
	Total Credit Hours	**125**

Nursing, RN to B.S.N. Online Program

The Marshall University School of Nursing offers an RN to B.S.N. program for registered nurses who have a diploma or associate degree in nursing from a nationally accredited program and wish to earn a baccalaureate degree in nursing. The program is designed for full-time or part-time study. Applications for the RN to B.S.N. program are processed on a semester basis. **All RN to B.S.N. nursing courses are taught online** each semester: fall, spring, and summer. Classes are offered in 7-week blocks during the semester to allow students to focus on 1-2 nursing classes at a time. The program can be completed in as little as two semesters if all other requirements have been met.

Program Requirements

All Registered Nurse graduates from either diploma or associate degree nursing programs with fewer than 40 credit hours in Nursing will be awarded additional credit hours in Nursing up to a total of 40 hours upon successful completion of 12 credits of upper-level Nursing courses. Students must apply for the additional credit hours. All RN to B.S.N. students are required to meet Marshall University's general education curriculum. Information about the general education requirements is available at www.marshall.edu/gened (http://www.marshall.edu/gened/). In addition, RN to B.S.N. students must complete 3 hours of 200-level or higher statistics prior to taking nursing research (NUR 416 Intro Research EBP). A total of 120 credit hours is needed to graduate. See the following for numerical representation of program requirements:

120 credits (minimum required to graduate)
- 40 credits (nursing credits for RN - associate degree/diploma)
80 credits remaining
- 28 credits RN to B.S.N. nursing courses (see below)
52 credits remaining
- 3 credits for required statistics course at 200 level or higher
49 general education credits remaining

Admission Requirements

To be eligible for admission the applicant must:

1. Be a graduate of a nationally accredited diploma or associate degree nursing (ASN) program (i.e., ACEN - Accreditation Commission for Education in Nursing).
2. Meet the general admission requirements of Marshall University.
3. Have an overall Grade Point Average of 2.5 or higher on all college work.
4. Satisfactorily pass a background check and drug screen through the background and drug screen company contracted by the Marshall University School of Nursing. Employer and other background checks and drug screens will not be accepted.
5. Hold an unencumbered RN license[1], if already licensed as RN, in one or more states or territories in the United States.
6. Students applying for the program who are completing their associate degree/diploma upon application to the RN to BSN program must hold an unencumbered RN license[1] **prior** to beginning the second semester of coursework or they will be withdrawn from the program.

[1] An unencumbered license has not been subjected to formal discipline by any Board of Nursing. This includes but is not limited to reprimand, revocation, probation, suspension, restriction, limitation, disciplinary action, discretionary review/hearing or encumbrance. An unencumbered license is a license that has no provisions or conditions that limit practice in any way. This applies to all current or past RN licensure in one or more states or territories.

Application Process

1. Apply to Marshall University.
2. Apply to the School of Nursing RN to B.S.N. program; additional information and form online at www.marshall.edu/nursing/online/rn-to-bsn/admission (http://www.marshall.edu/nursing/online/rn-to-bsn/admission/).
3. Send official college transcripts to the Marshall University Office of Admissions and Marshall University School of Nursing with attention to the RN to B.S.N. program.

1.

Program Requirements

All Registered Nurse graduates from either diploma or associate degree nursing programs with fewer than 40 credit hours in Nursing will be awarded additional credit hours in Nursing up to a total of 40 hours upon successful completion of 12 credits of upper-level Nursing courses. Students must apply for the additional credit hours. All RN to B.S.N. students are required to meet Marshall University's general education curriculum. Information about the general education requirements is available at www.marshall.edu/gened (http://www.marshall.edu/gened/). In addition, RN to B.S.N. students must complete 3 hours of 200-level or higher statistics prior to taking nursing research (NUR 416 Intro Research EBP). A total of 120

credit hours is needed to graduate. See the following for numerical representation of program requirements:

120 credits (minimum required to graduate)
- 40 credits (nursing credits for RN - associate degree/diploma)
80 credits remaining
- 28 credits RN to B.S.N. nursing courses (see below)
52 credits remaining
- 3 credits for required statistics course at 200 level or higher
49 general education credits remaining

Admission Requirements

To be eligible for admission the applicant must:

1. Be a graduate of a nationally accredited diploma or associate degree nursing (ASN) program (i.e., ACEN - Accreditation Commission for Education in Nursing).
2. Meet the general admission requirements of Marshall University.
3. Have an overall Grade Point Average of 2.5 or higher on all college work.
4. Satisfactorily pass a background check and drug screen through the background and drug screen company contracted by the Marshall University School of Nursing. Employer and other background checks and drug screens will not be accepted.
5. Hold an unencumbered RN license[1], if already licensed as RN, in one or more states or territories in the United States.
6. Students applying for the program who are completing their associate degree/diploma upon application to the RN to BSN program must hold an unencumbered RN license[1] **prior** to beginning the second semester of coursework or they will be withdrawn from the program.

[1] An unencumbered license has not been subjected to formal discipline by any Board of Nursing. This includes but is not limited to reprimand, revocation, probation, suspension, restriction, limitation, disciplinary action, discretionary review/hearing or encumbrance. An unencumbered license is a license that has no provisions or conditions that limit practice in any way. This applies to all current or past RN licensure in one or more states or territories.

Application Process

1. Apply to Marshall University.
2. Apply to the School of Nursing RN to B.S.N. program; additional information and form online at www.marshall.edu/nursing/online/rn-to-bsn/admission (http://www.marshall.edu/nursing/online/rn-to-bsn/admission/).
3. Send official college transcripts to the Marshall University Office of Admissions and Marshall University School of Nursing with attention to the RN to B.S.N. program.

1.

- General Education Course

- Milestone course: a key success marker for your major. See your advisor to discuss the importance of this course in your plan of study.

Major

Code	Title	Credit Hours
Nursing Courses		
NUR 305	Concepts in Prof Nursing	4
NUR 318	Family and Chronic Illness	2
NUR 333	Health Physical Assessment	3
NUR 400	Transcultural Nursing	3
NUR 410	Community Nursing for RN	5
NUR 416	Intro Research EBP	3
NUR 418	Contemporary Nursing	3
NUR 427	Prof Engagement Nursing	5

- General Education Course

- Milestone course: a key success marker for your major. See your advisor to discuss the importance of this course in your plan of study.

Two Year Plan

Sample Plan for those taking nursing courses along with core requirements:

First Year		
First Semester		**Credit Hours**
NUR 305	Concepts in Prof Nursing	4
NUR 333	Health Physical Assessment	3
Core/elective		3
Core/elective		3
	Credit Hours	**13**
Second Semester		
NUR 318	Family and Chronic Illness	2
NUR 400	Transcultural Nursing	3
Statistics (200 level or higher)		3
Core/elective		3
	Credit Hours	**11**
Second Year		
First Semester		
NUR 410	Community Nursing for RN	5
NUR 418	Contemporary Nursing	3
Core/elective		3
Core/elective		3
	Credit Hours	**14**
Second Semester		
NUR 416	Intro Research EBP	3
NUR 427	Prof Engagement Nursing	5
Core/elective		3
Core/elective		3
	Credit Hours	**14**
	Total Credit Hours	**52**

Pre-Health, Major

The Pre-Health curriculum is designed to encompass the Core Curriculum at Marshall University while preparing students for any of the health professions majors offered in the College of Health Professions. The courses include academic courses common to all health professions. This program of study is available for no more than four semesters. Therefore, students entering into Pre-Health, Pre-CD, Pre-CLS, or Pre-DTS must be eligible to enter their program of study by the end of the fourth semester or select an alternative choice of major. To facilitate the transfer from a pre-health designation to a major, an advisor hold will be placed on all students after three semesters. Students must meet with their advisors to select a major.

- General Education Course

- Milestone course: a key success marker for your major. See your advisor to discuss the importance of this course in your plan of study.

Major

In addition to those courses listed under Core I, Core II and University requirements, the courses required for each major are on the suggested four-year degree plans. If you have any questions, please consult with your advisor. A Pre-Health student should work with his or her academic advisor to develop a plan to meet the academic requirements of the major of his or her choice. Suggested courses include:

Code	Title	Credit Hours
BSC 227	Human Anatomy	3
BSC 228	Human Physiology	3
CHM 205	General, Organic, and Biochem	3
CHM 211	Principles of Chemistry I	3
CHM 217	Principles of Chem Lab I	2
CHM 212	Principles Chemistry II	3
CHM 218	Principles of Chem Lab II	2
MTH 121	Concepts and Applications (CT)	3
MTH 127	College Algebra-Expanded	5
MTH 130	College Algebra	3
PSY 201	Introductory Psychology (CT)	3
SOC 200	Introductory Sociology (CT)	3

Suggested Electives

Code	Title	Credit Hours
ANT 201	Cultural Anthropology (CT)	3
ART 407	Tribal Arts	3
BSC 250	Microbiol & Human Disease	3
CD 101	Intro Communic Disorders	3
CD 241	Intro Communication Science	3
CLS 105	Medical-Lab Terminology (CT)	3
DTS 202	Introductory Foods	4
Select a Statistics Course:		3
EDF 417	Statistical Methods	
MGT 218	Business Quantitative Methods	
STA 225	Introductory Statistics (CT)	
PSY 223	Elem Behavioral Stat	
SOC 345	Social Statistics I	
GEO 100	Intro to Human Geography (CT)	3
PH 105	Intro to Epidemiology	3
PH 101	Intro to Public Health	3
PH 270	Global Health (CT)	3
HS 200	Comp Medical Terminology (CT)	3
HS 220	Personal Health	3
HS 222	Hlth Prov First Aid/CPR/AED	3
HST 103	The World Since 1850 (CT)	3
PHY 101	Conceptual Physics	3
PHY 101L	Conceptual Physics Lab	1
SFT 235	Intro to Occup Safety (CT)	3
SWK 203	Intro To Social Work	3

Respiratory Care

Contacts: Dr. Joey Trader, Ed.D., M.S.N., RN, CNE; Vice President of Schools of Nursing and Health Professions
Website: https://www.st-marys.org/education-training/center-for-education/

The Bachelor of Science in Respiratory Care Program is a cooperative effort between the Marshall University College of Health Professions and St. Mary's School of Nursing and Health Professions. This program may be completed in four academic years and requires 121 credit hours.

General education courses are offered on the Marshall University Huntington campus and respiratory courses are offered at St. Mary's Medical Center School of Respiratory Care.

Graduates of this program receive a Bachelor of Science in Respiratory Care degree from Marshall University and are eligible to make application to the National Board of Respiratory Care for the advanced respiratory care practitioner credentialing examination.

Accreditation

The St. Mary's/Marshall University Cooperative Bachelor of Science in Respiratory Care program is accredited by the Committee on Accreditation for Respiratory Care (CoARC), 1248 Harwood Road Bedford, TX 76021, 1-817-283-2835, www.coarc.com/ (https://www.coarc.com/).

Admission Requirements

All applicants must be either a graduate of an accredited high school or have a high school equivalent through GED testing. Students who have fewer than 12 hours of college credits are required to have taken the ACT examination.

High School Seniors and Applicants Who Have Completed Fewer than 12 College Credit Hours Must Have:

- A minimum high school GPA of 3.0
- A minimum of *C* on all college courses completed

The Following High School Courses are Strongly Recommended:

- English - 4 units
- Science - 3 units (chemistry, biology I and biology II)
- Math - 2 units (one should be algebra)
- Social Studies - 3 units

Applicants Who Have Completed at Least 12 College Credit Hours Must Have:

- A minimum of *C* on each required non-respiratory course completed
- An overall 2.0 GPA (*C* average) or better on **all** courses completed
- An overall 2.0 GPA on all courses completed at Marshall University
- Taken 12 college semester credit hours at the 100 level or above for a grade

GED Applicants Must:

- Meet criteria for GED admission as stated in the Marshall University undergraduate catalog
- Have completed at least 12 college credit hours at the 100 level and earned grades of *C* or above
- Meet criteria for applicants who have completed at least 12 college credit hours

Tuition Assistance Program

The Marshall University Employee Dependent Undergraduate Tuition Assistance Program cannot be used to cover the tuition and fees of the St. Mary's/Marshall University cooperative programs, which include medical imaging, nursing, and respiratory care. These programs are classified as third-party waiver programs, which are exempted from the Employee Dependent Tuition Assistance Program.

Programs

- Respiratory Care, B.S. (p. 560)
- RRT to B.S.R.C. Technology Enhanced Program (p. 562)

Courses

- General Education Course

RSP 100 Respiratory Pharmacology **3 Credit hours**
Introduces the student to basic pharmacology of medicines used in respiratory care and physiological implications on the human body.
Pre-req: BSC 227 (may be taken concurrently) with a minimum grade of C and BSC 228 with a minimum grade of C and BSC 250 with a minimum grade of C and RSP 101 with a minimum grade of C and RSP 102 with a minimum grade of C and RSP 102L with a minimum grade of C.
Concurrent PR: BSC 227
Co-req: RSP 201, RSP 202, RSP 203
Grade Mode: Normal Grading Mode

RSP 101 Intro to Respiratory Care **3 Credit hours**
Introduces the student to the history of respiratory care and professional organizations. Emphasis is on the role of the respiratory therapist as a member of the health care team.
Pre-req: BSC 227 with a minimum grade of C and BSC 228 with a minimum grade of C.
Co-req: RSP 102, RSP 102L
Grade Mode: Normal Grading Mode

RSP 102 Intro Resp Care Procedures **3 Credit hours**
Administration of medical gases, humidity and aerosol therapy with emphasis on the handling of medical gases and safety in administration. Techniques of therapeutic procedures used in respiratory care are included.
Pre-req: BSC 227 with a minimum grade of C and BSC 228 with a minimum grade of C.
Co-req: RSP 101, RSP 102L
Grade Mode: Normal Grading Mode

RSP 102L Respiratory Lab **1 Credit hour**
Administration of medical gases, humidity and aerosol therapy with emphasis on the handling of medical gases and safety in administration. Techniques of therapeutic procedures used in respiratory care are included.
Pre-req: BSC 227 with a minimum grade of C and BSC 228 with a minimum grade of C.
Co-req: RSP 101, RSP 102
Grade Mode: Normal Grading Mode

RSP 200B Concepts of Respiratory Care **5 Credit hours**
Designed for the board certified and state licensed CRT to enter into advanced respiratory practice. Emphasis is on concepts and principles for professional practice as an RRT.
Grade Mode: Normal Grading Mode

RSP 201 Pulmonary Pathophys **3 Credit hours**
Emphasis is placed on the etiology, signs and symptoms, pathology, clinical manifestations, sequellae, and treatment. The respiratory therapist's role in the recognition and treatment of pulmonary diseases is highlighted.
Pre-req: BSC 227 with a minimum grade of C and BSC 228 with a minimum grade of C and BSC 250 with a minimum grade of C and RSP 101 with a minimum grade of C and RSP 102 with a minimum grade of C and RSP 102L with a minimum grade of C.
Co-req: RSP 100, RSP 202, RSP 203
Grade Mode: Normal Grading Mode

RSP 202 Mech Vent Tech & MGT **3 Credit hours**
An introduction to the fundamentals of mechanical ventilation techniques and terminology. Monitoring and the ability to solve clinical problems relating to mechanical ventilation are emphasized. Lab included.
Pre-req: BSC 227 with a minimum grade of C and BSC 228 with a minimum grade of C and BSC 250 with a minimum grade of C and RSP 101 with a minimum grade of C and RSP 102 with a minimum grade of C and RSP 102L with a minimum grade of C.
Co-req: RSP 100, RSP 201, RSP 203
Grade Mode: Normal Grading Mode

RSP 203 Respiratory Internship I **4 Credit hours**
Emphasis is on information gathering from the patient record, physical evaluation of the patient and basic respiratory interventions.
Pre-req: BSC 227 with a minimum grade of C and BSC 228 with a minimum grade of C and BSC 250 with a minimum grade of C and RSP 101 with a minimum grade of C and RSP 102 with a minimum grade of C and RSP 102L with a minimum grade of C.
Co-req: RSP 100, RSP 201, RSP 202
Grade Mode: Normal Grading Mode

RSP 204 Pulmonary Rehab/Home Care **1 Credit hour**
Emphasis on the care of the patient with long term pulmonary disability requiring home care. Psychosocial and physical needs are addressed with emphasis of quality of life and cardiopulmonary reserve.
Pre-req: RSP 203 with a minimum grade of C.
Co-req: RSP 205, RSP 206, RSP 207, RSP 208, RSP 209
Grade Mode: Normal Grading Mode

RSP 205 Cardiopulmonary Diag **3 Credit hours**
Emphasis on advanced techniques of pulmonary function testing. Topics include lung volume determination, diffusion/distribution of ventilation, invasive and non invasive methods of arterial blood gas sampling, analysis, and interpretation.
Pre-req: RSP 203 with a minimum grade of C.
Co-req: RSP 206, RSP 207
Grade Mode: Normal Grading Mode

RSP 206 Neonatal/Pediatric Care **3 Credit hours**
Provide knowledge of neonatal/pediatric patients; fetal cardiopulmonary development and changes at birth, care methods used and evaluation of neonatal and pediatric patients are covered.
Pre-req: RSP 100 with a minimum grade of C and RSP 201 with a minimum grade of C and RSP 202 with a minimum grade of C and RSP 203 with a minimum grade of C.
Co-req: RSP 207, RSP 208, RSP 209, RSP 211, RSP 212
Grade Mode: Normal Grading Mode

RSP 207 Intro Critical Care MGT **3 Credit hours**
Designed to provide the student with knowledge of airway management, transtrachael oxygen therapy and aspiration, broncholscopy, thoracentisis, pleural chest tubes, arterial lines, ABG interpretation and analysis, transports, and electrocardiogram interpretation.
Pre-req: RSP 100 with a minimum grade of C and RSP 201 with a minimum grade of C and RSP 202 with a minimum grade of C and RSP 203 with a minimum grade of C.
Co-req: RSP 206, RSP 208, RSP 209, RSP 211, RSP 212
Grade Mode: Normal Grading Mode

RSP 208 Respiratory Care Seminar **1 Credit hour**
Introduces the student to NBRC exam taking skills, mock examinations of the NBRC matrix, realistic clinical problems and situations with emphasis on critical thinking and problem solving.
Pre-req: RSP 100 with a minimum grade of C and RSP 201 with a minimum grade of C and RSP 202 with a minimum grade of C and RSP 203 with a minimum grade of C.
Co-req: RSP 206, RSP 207, RSP 209, RSP 211, RSP 212
Grade Mode: Normal Grading Mode

RSP 209 Respiratory Internship II **4 Credit hours**
Emphasis is on supervised practice of humidity and aerosol therapy, aerosol drug therapy, lung inflation therapy and techniques used in electrocardiography.
Pre-req: RSP 100 with a minimum grade of C and RSP 201 with a minimum grade of C and RSP 202 with a minimum grade of C and RSP 203 with a minimum grade of C.
Co-req: RSP 206, RSP 207, RSP 208, RSP 211, RSP 212
Grade Mode: Normal Grading Mode

RSP 210 Respiratory Internship III **4 Credit hours**
Emphasis is on supervised practice of arterial blood gas sampling and analysis, arterial line management, chest tube management, ECGs observation of hemodynamic measurement and monitoring, IABP management.
Pre-req: RSP 100 with a minimum grade of C and RSP 201 with a minimum grade of C and RSP 202 with a minimum grade of C and RSP 203 with a minimum grade of C and RSP 209 with a minimum grade of C.
Co-req: RSP 303, RSP 309
Grade Mode: Normal Grading Mode

RSP 211 Dynamics of Pulmonary **2 Credit hours**
Emphasis is placed on the interaction of systems in gas exchange and renal involvement in acid base balance.
Pre-req: RSP 100 with a minimum grade of C and RSP 201 with a minimum grade of C and RSP 202 with a minimum grade of C and RSP 203 with a minimum grade of C.
Co-req: RSP 206, RSP 207, RSP 208, RSP 209, RSP 212
Grade Mode: Normal Grading Mode

RSP 212 Acute/Chronic Pulmonary Mgt **3 Credit hours**
This is a 3 hour couse with emphasis placed on pulmonary function testing/interpretation and care of a patient with long term pulmonary disability requiring home care and rehabilitation.
Pre-req: RSP 100 with a minimum grade of C and RSP 201 with a minimum grade of C and RSP 202 with a minimum grade of C and RSP 203 with a minimum grade of C.
Co-req: RSP 206, RSP 207, RSP 208, RSP 209, RSP 211
Grade Mode: Normal Grading Mode

RSP 301 Intro Resp Care MGT **3 Credit hours**
Introduces the student to the basic principles of management in the respiratory care department. Includes theory, scope of management, quality issues, budgeting, personnel issues, evaluation and application of management concept.
Grade Mode: Normal Grading Mode

RSP 302 Respiratory Internship IV **4 Credit hours**
Emphasis is on cardiopulmonary assessment and treatment of trauma, post-surgical, cardiac, renal, neonatal and pediatric patients with refinement of monitoring procedures and interpretation of data.
Pre-req: RSP 206 with a minimum grade of C and RSP 207 with a minimum grade of C and RSP 208 with a minimum grade of C and RSP 209 with a minimum grade of C and RSP 211 with a minimum grade of C and RSP 212 with a minimum grade of C.
Co-req: RSP 304, RSP 307, RSP 402
Grade Mode: Normal Grading Mode

RSP 303 Clinical Respiratory Education **3 Credit hours**
Designed as an introduction to clinical teaching in a respiratory care program. Emphasis is on instructional and evaluation strategies and development of performance objectives.
Pre-req: RSP 206 with a minimum grade of C and RSP 207 with a minimum grade of C and RSP 208 with a minimum grade of C and RSP 209 with a minimum grade of C and RSP 211 with a minimum grade of C and RSP 212 with a minimum grade of C.
Co-req: RSP 308
Grade Mode: Normal Grading Mode

RSP 304 Adv Neonatal & Pediatrics **3 Credit hours**
Advanced study of neonatal/pediatric pathophysiology including parenchymal disease, obstructive airway disease, lesions of the lungs and airways, congenital abnormalities, respiratory distress syndrome, apnea disorders, neurological disorders and trauma. (PR: RSP 206)
Pre-req: RSP 303 with a minimum grade of C and RSP 308 with a minimum grade of C.
Co-req: RSP 302, RSP 307, RSP 401
Grade Mode: Normal Grading Mode

RSP 305 Resp Cost MGT & Solutions **3 Credit hours**
Introduces the student to cost solutions for respiratory departments. Topics include annual budgets, purchasing decisions, effective staffing, inventory and supply controls and cost-containment methods.
Co-req: RSP 306
Grade Mode: Normal Grading Mode

RSP 306 Resp Care Performance Improv **3 Credit hours**
Provides basic principles associated with Total Quality Management (TQM) and Continuous Quality Improvement (CQI) to aid in problem identification and quality problem-solving for respiratory care departments.
Co-req: RSP 305
Grade Mode: Normal Grading Mode

RSP 307 Adv Tech Adult Critical Care **4 Credit hours**
Emphasis is on current respiratory care procedures for the critically ill adult patient with exploration into newer techniques.
Pre-req: RSP 303 with a minimum grade of C and RSP 308 with a minimum grade of C.
Co-req: RSP 302, RSP 304, RSP 401
Grade Mode: Normal Grading Mode

RSP 308 Resp Mgt & Quality Improvement **3 Credit hours**
This course introduces the student to basic management principles of a respiratory department. Discussion includes, scope of management, quality issues, budgeting, personnel issues, and evaluation and application of management concepts.
Pre-req: RSP 206 with a minimum grade of C and RSP 207 with a minimum grade of C and RSP 208 with a minimum grade of C and RSP 209 with a minimum grade of C and RSP 211 with a minimum grade of C and RSP 212 with a minimum grade of C.
Co-req: RSP 210, RSP 303
Grade Mode: Normal Grading Mode

RSP 314 Adv Mechanical Ventilation **3 Credit hours**
Advanced theory and application of mechanical ventilation. Study of various mechanical ventilators and artificial airways, with major emphasis placed on all aspects of the management of the patient-ventilator system.
Pre-req: RSP 202 with a minimum grade of C.
Grade Mode: Normal Grading Mode

RSP 401 Intro to Sleep Disorders **4 Credit hours**
Designed to teach how a polysomnogram is performed, the major categories of sleep disorders, the presenting symptoms of sleep apnea, narcolepsy, psycholphysiological insomnia and sleep disturbance due to depression.
Pre-req: RSP 303 with a minimum grade of C and RSP 308 with a minimum grade of C.
Co-req: RSP 302, RSP 304, RSP 307
Grade Mode: Normal Grading Mode

RSP 402 Respiratory MGT **3 Credit hours**
Designed to examine respiratory care in rual America. This course will address the key issues confronting rural respiratory healthcare today, examine the causes and develop solutions to the issues.
Pre-req: RSP 302 with a minimum grade of C and RSP 303 with a minimum grade of C and RSP 304 with a minimum grade of C and RSP 307 with a minimum grade of C and RSP 308 with a minimum grade of C.
Co-req: RSP 403, RSP 404, RSP 420
Grade Mode: Normal Grading Mode

RSP 403 Respiratory Care Research **3 Credit hours**
Designed to provide the student knowledge about survey of research problems, methods, and designs utilized in respiratory care, with emphasis on data presentation and analysis.
Pre-req: RSP 302 with a minimum grade of C and RSP 303 with a minimum grade of C and RSP 304 with a minimum grade of C and RSP 307 with a minimum grade of C and RSP 308 with a minimum grade of C and (STA 225 with a minimum grade of C or MGT 218 with a minimum grade of C or PSY 223 with a minimum grade of C or EDF 417 with a minimum grade of C or BSC 417 with a minimum grade of C).
Co-req: RSP 402, RSP 404, RSP 420
Grade Mode: Normal Grading Mode

RSP 404 Adv Respiratory Care Practicum **4 Credit hours**
Advanced respiratory techniques and management for clients across the life-span.
Pre-req: RSP 302 with a minimum grade of C and RSP 303 with a minimum grade of C and RSP 304 with a minimum grade of C and RSP 307 with a minimum grade of C and RSP 308 with a minimum grade of C and (STA 225 with a minimum grade of C or MGT 218 with a minimum grade of C or PSY 223 with a minimum grade of C or EDF 417 with a minimum grade of C or BSC 417 with a minimum grade of C).
Co-req: RSP 402, RSP 403, RSP 420
Grade Mode: Normal Grading Mode

RSP 405 Flight/Hyperbaric Care **3 Credit hours**
Advanced respiratory techniques related to physiologic stressors impacting patient care due to atmospheric impact and pressure gradients and unique hazards in these environments to patients and staff.
Co-req: RSP 420
Grade Mode: Normal Grading Mode

RSP 406 Community Respiratory Care **3 Credit hours**
Designed for the student to provide care in a variety of settings including clinics, schools and other settings utilizing principles of public health and client and family teaching.
Grade Mode: Normal Grading Mode

RSP 407 Clinical Decision Making **3 Credit hours**
The course focuses on gathering appropriate clinical information to make evidence-based decisions in the treatment for respiratory care diseases.
Pre-req: RSP 201 with a minimum grade of C.
Grade Mode: Normal Grading Mode

RSP 420 Capstone in Respiratory Care **5 Credit hours**
Role synthesis practicum incorporating provider of care, coordinator of care, member of profession and leadership roles.
Pre-req: RSP 302 with a minimum grade of C and RSP 303 with a minimum grade of C and RSP 307 with a minimum grade of C and RSP 308 with a minimum grade of C and (STA 225 with a minimum grade of C or MGT 218 with a minimum grade of C or PSY 223 with a minimum grade of C or EDF 417 with a minimum grade of C or BSC 417 with a minimum grade of C).
Co-req: RSP 402, RSP 403, RSP 404
Attributes: Capstone Course
Grade Mode: Normal Grading Mode

RSP 480 Special Topics **1-4 Credit hours**
Study of topics not available in other courses.
Grade Mode: Normal Grading Mode

RSP 481 Special Topics **1-4 Credit hours**
Study of topics not available in other courses.
Grade Mode: Normal Grading Mode

RSP 482 Special Topics **1-4 Credit hours**
Study of topics not available in other courses.
Grade Mode: Normal Grading Mode

RSP 483 Special Topics **1-4 Credit hours**
Study of topics not available in other courses.
Grade Mode: Normal Grading Mode

RSP 485 Independent Study **1-4 Credit hours**
Course will consist of directed and independent readings, directed and independent research, problem reports, or tutorials. Will allow students to complete individualized learning in respiratory care.
Grade Mode: Normal Grading Mode

RSP 486 Independent Study **1-4 Credit hours**
Course will consist of directed and independent readings, directed and independent research, problem reports, or tutorials. Will allow students to complete individualized learning in respiratory care.
Grade Mode: Normal Grading Mode

RSP 487 Independent Study **1-4 Credit hours**
Course will consist of directed and independent readings, directed and independent research, problem reports, or tutorials. Will allow students to complete individualized learning in respiratory care.
Grade Mode: Normal Grading Mode

RSP 488 Independent Study **1-4 Credit hours**
Course will consist of directed and independent readings, directed and independent research, problem reports, or tutorials. Will allow students to complete individualized learning in respiratory care.
Grade Mode: Normal Grading Mode

Faculty

Program Director
Chuck Zuhars, M.S., ED, RRT

Respiratory Care, B.S.

Students receive Marshall University credit for all courses in the program. Graduates of the cooperative program receive a Bachelor of Science degree in Respiratory Care from Marshall University.

To obtain more information and an application, write to: St. Mary's/ Marshall University Cooperative Bachelor of Science in Respiratory Care Program, 2900 First Avenue, Huntington, WV 25702, Telephone: 304-526-1415.

- General Education Course

- Milestone course: a key success marker for your major. See your advisor to discuss the importance of this course in your plan of study.

Major

The Core Curriculum is designed to foster critical thinking skills and introduce students to basic domains of thinking that transcend disciplines. The Core applies to all majors. Information on specific classes in the Core can be found at https://www.marshall.edu/gened/.

Code	Title	Credit Hours
Core Curriculum		
Core 1: Critical Thinking		
FYS 100	First Yr Sem Critical Thinking	3
MTH 121	Concepts and Applications (CT)	3
PSY 201	Introductory Psychology (CT)	3
Core 2		
ENG 101	Beginning Composition	3
ENG 201	Advanced Composition	3
CMM 103	Fund Speech-Communication	3
MTH 121	Concepts and Applications (CT)	3
BSC 228	Human Physiology	3
BSC 228L	Human Physiology Lab	1
PSY 201	Introductory Psychology (CT)	3
Core II Humanities (MC/I)		3
Core II Fine Arts		3
Additional University Requirements		
Writing Intensive		3
RSP 403	Respiratory Care Research (WI)	3
Multicult or Int'l (MC Section Core II Humanities)		3
RSP 420	Capstone in Respiratory Care	5
Major-Specific		
BSC 227	Human Anatomy	3
BSC 227L	Human Anatomy Lab	1
BSC 250	Microbiol & Human Disease	3
BSC 250L	Microbio and Human Disease Lab	1
CHM 205	General, Organic, and Biochem	3
HS 200	Comp Medical Terminology (CT)	3
Statistics		3
RSP 100	Respiratory Pharmacology	3
RSP 101	Intro to Respiratory Care	3
RSP 102	Intro Resp Care Procedures	3
RSP 102L	Respiratory Lab	1
RSP 201	Pulmonary Pathophys	3
RSP 202	Mech Vent Tech & MGT	3
RSP 203	Respiratory Internship I	4
RSP 206	Neonatal/Pediatric Care	3
RSP 207	Intro Critical Care MGT	3

RSP 209	Respiratory Internship II	4
RSP 210	Respiratory Internship III	4
RSP 212	Acute/Chronic Pulmonary Mgt	3
RSP 302	Respiratory Internship IV	4
RSP 303	Clinical Respiratory Education	3
RSP 304	Adv Neonatal & Pediatrics	3
RSP 307	Adv Tech Adult Critical Care	4
RSP 308	Resp Mgt & Quality Improvement	3
RSP 401	Intro to Sleep Disorders	4
RSP 402	Respiratory MGT	3
RSP 403	Respiratory Care Research (WI)	3
RSP 404	Adv Respiratory Care Practicum	4
RSP 420	Capstone in Respiratory Care	5

Major Information

- Students are required to know and track their degree requirements for graduation or for entrance to a professional school.
- Course offerings and course attributes are subject to change each semester. Please consult each semester's schedule of courses for availability and attributes.
- The respiratory care program prepares students for the advanced level of practice to function as a licensed respiratory therapist.
- Students receive Marshall University credit for all courses in the program. Graduates of the cooperative program receive a Bachelor of Science degree in Respiratory Care from Marshall University.
- The St. Mary's/Marshall University Cooperative Bachelor of Science in Respiratory Care program is accredited by the Committee on Accreditation for Respiratory Care (CoARC).

- General Education Course

- Milestone course: a key success marker for your major. See your advisor to discuss the importance of this course in your plan of study.

Four Year Plan

The Bachelor of Science in Respiratory Care Program is a cooperative effort between the Marshall University College of Health Professions and St. Mary's School of Nursing and Health Professions. This program may be completed in four academic years and requires 121 credit hours. General education courses are offered on the Marshall University Huntington campus and respiratory courses are offered at St. Mary's Medical Center School of Respiratory Care. Graduates of this program receive a Bachelor of Science in Respiratory Care degree from Marshall University and are eligible to make application to the National Board of Respiratory Care for the advanced respiratory care practitioner credentialing examination.

Course	Title	Credit Hours
First Year		
First Semester		
BSC 227	Human Anatomy	3
BSC 227L	Human Anatomy Lab	1
CHM 205	General, Organic, and Biochem	3
ENG 101	Beginning Composition	3
FYS 100	First Yr Sem Critical Thinking	3
MTH 121	Concepts and Applications (CT)	3
	Credit Hours	**16**
Second Semester		
BSC 228	Human Physiology	3
BSC 228L	Human Physiology Lab	1
SOC 200	Introductory Sociology (CT)	3
HS 200	Comp Medical Terminology (CT)	3
Humanities Elective		3
Core II Fine Arts		3
	Credit Hours	**16**
Second Year		
First Semester		
BSC 250	Microbiol & Human Disease	3
BSC 250L	Microbio and Human Disease Lab	1
RSP 100	Respiratory Pharmacology	3
RSP 101	Intro to Respiratory Care	3
RSP 102	Intro Resp Care Procedures	3
RSP 102L	Respiratory Lab	1
	Credit Hours	**14**
Second Semester		
RSP 201	Pulmonary Pathophys	3
RSP 203	Respiratory Internship I	4
RSP 212	Acute/Chronic Pulmonary Mgt	3
CMM 103	Fund Speech-Communication	3
ENG 201	Advanced Composition	3
	Credit Hours	**16**
Third Year		
First Semester		
RSP 202	Mech Vent Tech & MGT	3
RSP 207	Intro Critical Care MGT	3
RSP 209	Respiratory Internship II	4
RSP 303	Clinical Respiratory Education	3
STA 225	Introductory Statistics (CT)	3
	Credit Hours	**16**
Second Semester		
RSP 206	Neonatal/Pediatric Care	3
RSP 210	Respiratory Internship III	4
RSP 308	Resp Mgt & Quality Improvement	3
RSP 314	Adv Mechanical Ventilation	3
	Credit Hours	**13**
Fourth Year		
First Semester		
RSP 302	Respiratory Internship IV	4
RSP 304	Adv Neonatal & Pediatrics	3
RSP 307	Adv Tech Adult Critical Care	4
RSP 401	Intro to Sleep Disorders	4
	Credit Hours	**15**
Second Semester		
RSP 407	Clinical Decision Making	3
RSP 403	Respiratory Care Research (WI)	3
RSP 404	Adv Respiratory Care Practicum	4

RSP 420	Capstone in Respiratory Care	5
	Credit Hours	**15**
	Total Credit Hours	**121**

RRT to B.S.R.C. Technology Enhanced Program

The Marshall University/St. Mary's School of Respiratory Care offers an RRT to B.S.R.C. program for registered respiratory therapists who have diplomas or associate degrees in respiratory care and wish to earn a baccalaureate degree. This program may be completed in two semesters of full-time study or extended for part-time study. All courses will be taught through technology-enhanced methods.

Social Work

Contacts: Jo Dee Gottlieb, Program Director
Website: http://www.marshall.edu/cohp (http://www.marshall.edu/cohp/)

Introduction

The Bachelor of Social Work is a professional degree allowing the student to enter an exciting and growing field. Social workers practice in a variety of settings including child welfare agencies, nursing homes, hospitals, schools, group homes, mental health centers, foster care agencies, and probation offices. Social workers work with individuals, families, groups, institutions, and communities and continually work to improve social conditions. The mission of the Marshall University Baccalaureate Social Work Program is to prepare students for the beginning level of practice as social work generalists grounded in the core professional values and competencies with an understanding and appreciation of the populations and institutions of Appalachia.

Our Commitment to Social Justice

The Marshall University Department of Social Work affirms our strong commitment to human rights and social justice. We offer the reassurance of our unflinching commitment to the values of pluralism that have been crucial in weaving the strong fabric of our civil society. We do not support and will stand against any acts of bigotry, hate, harassment, bullying, or discrimination toward any individual or group. We welcome, stand with, and offer a safe place to all students regardless of race, color, immigrant status, culture, LGBTQ identification, disability, religious affiliation, spiritual belief, gender, or any other nuance of identity that may place one at risk of alienation.

Admission

Students may declare a major in Social Work as early as freshman year. In order to become formally accepted into the program, however, students must complete SWK 203 Intro To Social Work with a grade of *C* or above and at least 24 hours of general academic requirements with an overall grade point average of 2.0 or above. At that time, a student may complete an application and interview for acceptance into the program. An admission committee made up of Social Work faculty reviews applications and conducts interviews. The committee may recommend accepting students into the program, conditional acceptance, or non-acceptance based on the following criteria:

A. Acceptance
   1. Academic requirements: GPA of 2.0 or above and completion of SWK 203 Intro To Social Work with a grade of *C* or above.
   2. Ability to maintain positive and constructive interpersonal relationships.
   3. Evidence of communication skill.
   4. Demonstration of self-awareness, ethical behavior and willingness to learn.

B. Conditional Acceptance: based on taking remedial action regarding one or more of the above.

C. Non-Acceptance – with referral – based on:
   a. The student's application and academic requirements.
   b. Information from faculty knowledgeable about the student.
   c. The interview process.

Students who are not satisfied with a decision may appeal in writing, within 10 days of notification, to the program director who will reconvene the committee to re-evaluate the recommendation. Further appeal may be made in accordance with university procedure as designated in The Academic Rights and Responsibilities of Students policy which is published in the Marshall University Undergraduate Catalog.

Credit for Life Experience

The social work program does not grant social work course credit for life experience or for previous work experiences.

Continuation in the Program

It is expected that once a student is accepted into the program, academic requirements and standards will be maintained. Since it is a professional program, continuance in Social Work depends on continuing progress toward a professional level of performance. The B.S.W. degree is reserved for students who have demonstrated that level of competence. In addition to mastering a body of knowledge, a social worker must possess professional attitudes, skills, values and ethics. Academic performance in the B.S.W. program includes classroom performance, class attendance, ethical behavior, communication skills, and psychological well-being sufficient to maintain positive and constructive relationships with clients.

Occasionally, it is determined that a student in the program may not be suited for the field of social work. In that case, the advisor may recommend remedial action or may counsel the student out of the program. When a decision is made to terminate a student from the program, the student may appeal that decision to the program director. If not satisfied, the student may appeal in accordance with the university procedure, as designated in the "Academic Rights and Responsibilities of Students" published in the Marshall University *Undergraduate Catalog*.

Requirements

Social Work students complete the general and specific education requirements. Additional requirements for acceptance into the Social Work Program can be obtained by contacting the Social Work office. Electives highly recommended include courses in social work special topics, history, anthropology, sociology, psychology, communications, philosophy, political science, and economics. Students should consult their advisors for recommended electives.

Students should contact the Social Work department faculty for advisement as early as possible.

Accreditation Status

The B.S.W. program is accredited by the Council on Social Work Education.

Courses at the Mid-Ohio Valley Center

Students may take Social Work classes at the Mid-Ohio Valley Center in Point Pleasant. Many classes are available at the center, but some attendance at the Huntington campus will be necessary to complete the degree.

Programs

- Social Work, B.S.W. (p. 565)
- Social Work, Minor (p. 564)

Courses

- General Education Course

SWK 203 Intro To Social Work **3 Credit hours**
Introduction to the field of social work practice. Introduction to the field of social work practice.
Attributes: Multicultural
Grade Mode: Normal Grading Mode

SWK 260 Substance Use and SWK **3 Credit hours**
This course provides information on substance use and addiction from a social work ecosystems perspective emphasizing understanding of addiction and recovery, family dynamics, assessment, and intervention.
Grade Mode: Normal Grading Mode

SWK 261 Staff Development **1-4 Credit hours**
Courses designed for staff development and training needs of social work or para social work professionals or trainees, not degree applicable. Topics will vary. CR/NC grading.
Grade Mode: Credit/No Credit Grade Only

SWK 262 Staff Development **1-4 Credit hours**
Courses designed for staff development and training needs of social work or para social work professionals or trainees, not degree applicable. Topics will vary. CR/NC grading.
Grade Mode: Credit/No Credit Grade Only

SWK 263 Staff Development **1-4 Credit hours**
Courses designed for staff development and training needs of social work or para social work professionals or trainees, not degree applicable. Topics will vary. CR/NC grading.
Grade Mode: Credit/No Credit Grade Only

SWK 280 Special Topics **1-4 Credit hours**
Selected topics not covered in regular course offerings. Selected topics not covered in regular course offerings.
Grade Mode: Normal Grading Mode

SWK 281 Special Topics **1-4 Credit hours**
Selected topics not covered in regular course offerings. Selected topics not covered in regular course offerings.
Grade Mode: Normal Grading Mode

SWK 282 Special Topics **1-4 Credit hours**
Selected topics not covered in regular course offerings. Selected topics not covered in regular course offerings.
Grade Mode: Normal Grading Mode

SWK 283 Special Topics **1-4 Credit hours**
Selected topics not covered in regular course offerings. Selected topics not covered in regular course offerings.
Grade Mode: Normal Grading Mode

SWK 307 Child Welfare **3 Credit hours**
Examination of child welfare issues, services, and interventions. Examination of child welfare issues, services, and inter- ventions.
Attributes: No Textbook Required
Grade Mode: Normal Grading Mode

SWK 310 Human Behav Soc Envir I **3 Credit hours**
Integration of biological, psychological, social and cultural aspects of the individual's growth and development from prenatal period through adolescence including the impact the social environment has on the individual. Integration of biological, psychological, social and cultural aspects of the individual's growth and development from prenatal period through adolescence including the impact the social environment has on the individual.
Pre-req: SWK 203 and (ENG 201 or ENG 102 or ENG 302 or ENG 201H) and BSC 105 and PSY 201 and SOC 200 and PSC 202 and ECN 250 and (MTH 121 or MTH 121B or MTH 122 or MTH 123 or MTH 127 or MTH 130 or MTH 130E).
Co-req: SWK 320, SWK 330, SWK 340
Grade Mode: Normal Grading Mode

SWK 312 Hum Behav Soc Envir **3 Credit hours**
Integration of biological, psychological, social and cultural aspects of the individual's growth and development from early through later adulthood including impact of social environment on the individual. Organizational theory included. Integration of biological, psychological, social and cultural aspects of the individual's growth and development from early through later adulthood including impact of social environment on the individual. Organizational theory included.
Pre-req: SWK 310 with a minimum grade of D and SWK 320 with a minimum grade of D and SWK 330 with a minimum grade of D and SWK 340 with a minimum grade of D.
Co-req: SWK 322, SWK 332, SWK 370
Attributes: Multicultural
Grade Mode: Normal Grading Mode

SWK 320 Social Work Practice I **4 Credit hours**
Pre-req: SWK 203 and (ENG 201 or ENG 102 or ENG 302 or ENG 201H) and BSC 105 and PSY 201 and SOC 200 and PSC 202 and ECN 250 and (MTH 121 or MTH 121B or MTH 122 or MTH 123 or MTH 127 or MTH 130 or MTH 130E).
Co-req: SWK 310, SWK 330, SWK 340
Attributes: Multicultural
Grade Mode: Normal Grading Mode

SWK 322 Social Work Practice II **4 Credit hours**
Pre-req: SWK 320 with a minimum grade of D and SWK 310 with a minimum grade of D and SWK 330 with a minimum grade of D and SWK 340 with a minimum grade of D.
Co-req: SWK 312, SWK 332, SWK 370
Attributes: Multicultural
Grade Mode: Normal Grading Mode

SWK 330 Soc Wel Issues in Appalachia **3 Credit hours**
The development of Social Welfare as a continuing institution. Rural poverty and other critical social issues in Appalachia.
Pre-req: SWK 203 and (ENG 201 or ENG 102 or ENG 302 or ENG 201H) and BSC 105 and PSY 201 and SOC 200 and PSC 202 and ECN 250 and (MTH 121 or MTH 121B or MTH 122 or MTH 123 or MTH 127 or MTH 130 or MTH 130E).
Grade Mode: Normal Grading Mode

SWK 332 Soc Wel Policy & Legislation **3 Credit hours**
Policy formulation, implementation and analysis. Examination and critical analysis of social welfare policies, legislation, and administration.
Pre-req: SWK 310 with a minimum grade of D and SWK 320 with a minimum grade of D and SWK 330 with a minimum grade of D and SWK 340 with a minimum grade of D.
Co-req: SWK 312, SWK 322, SWK 370
Attributes: Multicultural
Grade Mode: Normal Grading Mode

SWK 340 Social Work Research **3 Credit hours**
Introduction to Social Work Research with preparation for evaluation of generalist practice.
Pre-req: SWK 203 and (ENG 201 or ENG 102 or ENG 302 or ENG 201H) and BSC 105 and PSY 201 and SOC 200 and PSC 202 and ECN 250 and (MTH 121 or MTH 121B or MTH 122 or MTH 123 or MTH 127 or MTH 130 or MTH 130E).
Co-req: SWK 310, SWK 320, SWK 330
Grade Mode: Normal Grading Mode

SWK 370 Practicum I **3 Credit hours**
Supervised field experience in a social agency or organization for minimum of 100 clock hours. Regular conferences with instructor and weekly seminars. Supervised field experience in a social agency or organiza- tion for minimum of 100 clock hours. Regular conferences with instructor and weekly seminars.
Pre-req: SWK 310 with a minimum grade of D and SWK 320 with a minimum grade of D and SWK 330 with a minimum grade of D and SWK 340 with a minimum grade of D.
Co-req: SWK 312, SWK 322, SWK 332
Attributes: No Textbook Required
Grade Mode: Credit/No Credit Grade Only

SWK 473 Practicum II **12 Credit hours**
Supervised field experience in a social agency or organization for minimum of 400 clock hours. Regular conferences with instructor and weekly seminars. Supervised field experience in a social agency or organiza- tion for minimum of 400 clock hours. Regular conferences with instructor and weekly seminars.
Pre-req: SWK 312 and SWK 322 and SWK 332 and SWK 370.
Attributes: Multicultural
Grade Mode: Credit/No Credit Grade Only

SWK 475 Social Work Seminar **6 Credit hours**
A capstone course integrating course work and field work as preparation for beginning level of generalist Social Work practice. A capstone course integrating course work and field work as preparation for beginning level of generalist Social Work practice.
Pre-req: SWK 312 with a minimum grade of D and SWK 322 with a minimum grade of D and SWK 332 with a minimum grade of D and SWK 370 and SWK 473 (may be taken concurrently) with a minimum grade of D.
Concurrent PR: SWK 473
Attributes: Capstone Course
Grade Mode: Normal Grading Mode

SWK 480 Special Topics **1-4 Credit hours**
Study of topics of interest not covered in regularly scheduled classes. Study of topics of interest not covered in regularly sched- uled classes.
Grade Mode: Normal Grading Mode

SWK 481 Special Topics **1-4 Credit hours**
Study of topics of interest not covered in regularly scheduled classes. Study of topics of interest not covered in regularly sched- uled classes.
Grade Mode: Normal Grading Mode

SWK 482 Special Topics **1-4 Credit hours**
Study of topics of interest not covered in regularly scheduled classes. Study of topics of interest not covered in regularly sched- uled classes.
Grade Mode: Normal Grading Mode

SWK 483 Special Topics **1-4 Credit hours**
Study of topics of interest not covered in regularly scheduled classes. Study of topics of interest not covered in regularly sched- uled classes.
Grade Mode: Normal Grading Mode

SWK 485 Independent Study **1-4 Credit hours**
Individual study of topics not offered in regularly scheduled courses. Advance permission required. Individual study of topics not offered in regularly sched- uled courses. Advance permission required.
Grade Mode: Normal Grading Mode

SWK 486 Independent Study **1-4 Credit hours**
Individual study of topice not offered in regular scheduled courses. Advance permission required. Individual study of topice not offered in regular sched- uled courses. Advance permission required.
Grade Mode: Normal Grading Mode

SWK 487 Independent Study **1-4 Credit hours**
Individual study of topics not offered in regularly scheduled courses. Advance permission required. Individual study of topics not offered in regularly sched- uled courses. Advance permission required.
Grade Mode: Normal Grading Mode

SWK 488 Independent Study **1-4 Credit hours**
Individual study of topics not offered in regularly scheduled courses. Advance permission required. Individual study of topics not offered in regularly sched- uled courses. Advance permission required.
Grade Mode: Normal Grading Mode

Faculty

Professors
Carter, Gottlieb, Larsen

Social Work, Minor

The social work minor provides a structured introductory background to social welfare and the social work profession. A minimum of 15 credit hours includes the following courses:

Code	Title	Credit Hours
Requirement		
SWK 203	Intro To Social Work	3
SWK 310	Human Behav Soc Envir I	3
SWK 330	Soc Wel Issues in Appalachia	3
SWK 332	Soc Wel Policy & Legislation	3
SWK 340	Social Work Research	3
Total Credit Hours		**15**

Social Work, B.S.W.

- General Education Course

- Milestone course: a key success marker for your major. See your advisor to discuss the importance of this course in your plan of study.

Major

The Core Curriculum is designed to foster critical thinking skills and introduce students to basic domains of thinking that transcend disciplines. The Core applies to all majors. Information on specific classes in the Core can be found at https://www.marshall.edu/gened/.

Code	Title	Credit Hours
Core Curriculum		
Core 1: Critical Thinking		
FYS 100	First Yr Sem Critical Thinking	3
MTH 121	Concepts and Applications (CT)	3
PSY 201	Introductory Psychology (CT)	3
Core 2		
ENG 101	Beginning Composition	3
ENG 201	Advanced Composition	3
CMM 103	Fund Speech-Communication	3
MTH 121	Concepts and Applications (CT)	3
BSC 105 & BSC 105L	Human Biology and Human Biology Lab	4
Core II Humanities		3
Core II Fine Arts		3
PSY 201	Introductory Psychology (CT)	3
Additional University Requirements		
Writing Intensive		3
Writing Intensive		3
SOC 200	Introductory Sociology (CT) (Multicultural or International)	3
SWK 475	Social Work Seminar (Capstone)	6
Major-Specific		
One of the following combinations:		4
BSC 105 & BSC 105L	Human Biology and Human Biology Lab	
BSC 227 & BSC 227L	Human Anatomy and Human Anatomy Lab	
CMM 103	Fund Speech-Communication	3
ECN 250	Principles Microeconomics	3
PSC 202	State and Local Government	3
PSY 201	Introductory Psychology (CT)	3
SOC 200	Introductory Sociology (CT) (MC)	3
SWK 203	Intro To Social Work	3
SWK 310	Human Behav Soc Envir I	3
SWK 312	Hum Behav Soc Envir	3
SWK 320	Social Work Practice I	4
SWK 322	Social Work Practice II	4
SWK 330	Soc Wel Issues in Appalachia	3
SWK 332	Soc Wel Policy & Legislation	3
SWK 340	Social Work Research	3
SWK 370	Practicum I	3
SWK 473	Practicum II	12
SWK 475	Social Work Seminar (Capstone)	6
Free Elective		3
Free Elective		3
Free Elective		3
Free Elective		3
Free Elective		3
Free Elective		3
Free Elective		3
Free Elective		3
Free Elective		3
Free Elective		2

Major Information

- Students are required to know and track their degree requirements for graduation or for entrance to a professional school.
- Course offerings and course attributes are subject to change semesters. Please consult each semesters schedule of courses for availability and attributes.
- Students may declare a major in Social Work as early as freshman year. In order to become formally accepted into the program, however, students must complete SWK 203 Intro To Social Work with a grade of *C* or above and at least 24 hours of general academic requirements with an overall grade point average of 2.0 or above. At that time, a student may complete an application and interview for acceptance into the program.
- It is expected that once a student is accepted into the program, academic requirements and standards will be maintained. Since it is a professional program, continuing progress toward a professional level of performance is required. The B.S.W. degree is reserved for students who have demonstrated that level of competence. In addition to mastering a body of knowledge, a social worker must possess professional attitudes, skills, values and ethics. Academic performance in the B.S.W. program includes classroom performance, class attendance, ethical behavior, communication skills, and psychological well-being sufficient to maintain positive and constructive relationships with clients.

- General Education Course

- Milestone course: a key success marker for your major. See your advisor to discuss the importance of this course in your plan of study.

Four Year Plan

The Bachelor of Social Work is a professional degree allowing the student to enter an exciting and growing field. Social workers practice in a variety of settings including child welfare agencies, nursing homes, hospitals, schools, group homes, mental health centers, foster care agencies, and probation offices. Social workers work with individuals, families, groups, institutions, and communities and continually work to improve social conditions. The mission of the Marshall University Baccalaureate Social Work Program is to prepare students for the beginning level of practice as social work generalists grounded in the core professional values and competencies with an understanding and appreciation of the populations and institutions of Appalachia.

Course	Title	Credit Hours
First Year		
First Semester		
SWK 203	Intro To Social Work	3
CMM 103	Fund Speech-Communication	3
ENG 101	Beginning Composition	3
FYS 100	First Yr Sem Critical Thinking	3
MTH 121	Concepts and Applications (CT)	3
UNI 100	Freshman First Class	1
	Credit Hours	**16**
Second Semester		
One of the following combinations:		4
BSC 105 & BSC 105L	Human Biology and Human Biology Lab	
BSC 227 & BSC 227L	Human Anatomy and Human Anatomy Lab	
ENG 201	Advanced Composition	3
SOC 200	Introductory Sociology (CT) (MC)	3
Free Elective		3
Free Elective		3
	Credit Hours	**16**
Second Year		
First Semester		
PSC 202	State and Local Government	3
PSY 201	Introductory Psychology (CT)	3
Core II Humanities		3
Core II Fine Arts		3
Free Elective		3
	Credit Hours	**15**
Second Semester		
ECN 250	Principles Microeconomics	3
Writing Intensive		3
Free Elective		3
Free Elective		3
Free Elective		3
	Credit Hours	**15**
Third Year		
First Semester		
SWK 310	Human Behav Soc Envir I	3
SWK 320	Social Work Practice I	4
SWK 330	Soc Wel Issues in Appalachia	3
SWK 340	Social Work Research	3
Writing Intensive		3
	Credit Hours	**16**
Second Semester		
SWK 312	Hum Behav Soc Envir	3
SWK 322	Social Work Practice II	4
SWK 332	Soc Wel Policy & Legislation	3
SWK 370	Practicum I	3
Free Elective		3
	Credit Hours	**16**
Fourth Year		
First Semester		
SWK 473	Practicum II	12
Free Elective		2
	Credit Hours	**14**
Second Semester		
SWK 475	Social Work Seminar (Capstone)	6
Free Elective		3
Free Elective		3
	Credit Hours	**12**
	Total Credit Hours	**120**

College of Liberal Arts

Contacts: Dr. Robert Bookwalter, Dean; Dr. Kelli M. Prejean, Associate Dean
Website: http://www.marshall.edu/cola (http://www.marshall.edu/cola/)

cola@marshall.edu

The College of Liberal Arts is committed to excellence in higher education. We have the responsibility to preserve, transmit, interpret, and create knowledge in an environment of free inquiry and expression. We will provide instruction that forms the core of the undergraduate curriculum for all Marshall University students so they may think critically and imaginatively, communicate effectively, and understand various dimensions of human experience. Within the disciplines of the college we will provide specialized instruction for undergraduate and graduate students, enabling them to develop the intellectual and moral abilities to live autonomous, sensitive, productive lives. We will be active scholars who contribute to the wider academic community. We will continue to use our expertise in the service of others.

- Department of Communication Studies (p. 241)
- Department of English (p. 251)
- Department of Finance, Economics and International Business (p. 271)
- Department of Geography (p. 274)
- Department of History (p. 287)

- Department of Modern Languages (p. 297)
- Department of Political Science (p. 310)
- Department of Psychology (p. 319)
- Department of Sociology and Anthropology (p. 324)
- Humanities (p. 336)
- Interdisciplinary (p. 356)
- International Affairs (p. 387)

Admission Requirements

1. Regular admission to the university constitutes admission to the College of Liberal Arts for students entering as freshmen and as transfers from other institutions. There is no separate admissions process.
2. The College of Liberal Arts will accept inter-college and college transfers.

Academic Policies

Changing Your Major or College

If you want to declare a major, change your major, or transfer to a different college at Marshall, you must do this in the College of Liberal Arts office, Old Main 110.

Advising: General

Your advisor is a member of the faculty or a professional staff person in your major. Advisors help you select appropriate courses for the major, minor, and general education requirements. In addition, your advisor can give you advice about career and graduate school opportunities. Although you most often will see your advisor during registration periods, all advisors are available during office hours throughout the semester. You should arrange an appointment with your advisor at any time during the semester when you need their advice.

As a Marshall University student, you are responsible for understanding and following the degree requirements outlined in this catalog as they apply to university and college degree requirements, the requirements for the major, and the requirements for other programs you may be pursuing. Changing your schedule by adding and dropping courses may affect your program of study and the time required to complete your degree.

Advising: Preregistration

If you are a freshman or sophomore and have declared a major, you must meet with your advisor before registering for classes. The advisor is the only person who can remove your "advisor hold" so you may register for courses.

All students majoring in Classics, Communication Studies, Philosophy, and Religious Studies must meet with an advisor before registration. Therefore, you should check your department listing in this catalog to determine the exact advising requirements.

Before you meet with your advisor, you should prepare a tentative list of courses for your advisor to review with you. Specifically, you should complete the advising sheet for your major. These sheets are available on the website for the department (these are listed below) and in the College of Liberal Arts office, Old Main 110.

Determining Your Catalog

When you declare your major the catalog current on that date will then become the official document specifying the requirements for your major. You will have ten years to complete the requirements for the major. If you do not meet these requirements within ten years of declaring your major, then you will need to meet the requirements for the then-current catalog. If you decide to change your major or to transfer to another college, you are governed by the catalog in effect at the time of change.

Credit Evaluations for Rising Juniors and Seniors

Once you have completed 60, and again when you have completed 90 credit hours, the staff of the College of Liberal Arts will review your academic record to ensure you are on the right track for graduation. You will receive notification that you will need to meet with the Academic Advisor in the College of Liberal Arts main office to review your academic record. After the meeting, the advisor will lift the hold, which will allow you to register for courses.

Academic Standing

- **Good Standing**
  You are in good standing when both your Marshall GPA and overall GPA are 2.0 or above.
- **Academic Probation**
  If you have a deficit of quality points in your Marshall or overall GPA you are classified as on "academic probation." Quality point deficits accumulate as a result of excessive grades of *D* or *F*, causing your GPA to fall below a 2.0. If you are on academic probation, an academic obligation hold is placed on your registration status. This means that you cannot use Web registration. You must also secure approval from the Associate Dean of the College of Liberal Arts before you can register or change your schedule in any way. You will not be able to register for more than 14 semester hours. If you are on probation and are subject to mandatory advising, first take your proposed schedule to your advisor. Once your advisor approves your schedule, take it to the College Office for approval by the Associate Dean. The Associate Dean will help you set goals for academic progress through an Academic Improvement Plan. One strategy is to repeat courses taken before the 60th attempted hour in which you received a *D* or *F*. (See "*D/F* Repeat Rule" in this catalog.) When your quality point deficit is zero, you are no longer on academic probation.

Degree Requirements

Students completing requirements in the College of Liberal Arts receive the Bachelor of Arts (B.A.) degree or a Bachelor of Science (B.S.) degree in Geography or Psychology. Each degree requires a minimum of 120 hours of credit. Within the 120 credit hours, you must meet these general and specific requirements.

General Requirements for Graduation

1. **Core Curriculum:** All students must complete the Core Curriculum defined in this catalog;
2. **Grade Point Averages:** All students must have a Grade Point Average of 2.0 or higher for
   a. all work attempted at Marshall University and
   b. all attempted collegiate work (Marshall University and other institution credit).

Students must also earn a minimum Grade Point Average of 2.0 for the major unless the major requires a higher average (see major descriptions for specific requirements).

3. **Residency Requirement:** All students must complete 15 credit hours in the major field and 12 credit hours of upper division coursework within the College of Liberal Arts at Marshall University.
4. **Transfer:** No student may count more than 72 credit hours which were transferred from an accredited West Virginia two-year institution of higher education. Students planning to transfer credit to Marshall University should consult with the Associate Dean to determine whether the credit will apply to the degree program.

College of Liberal Arts Degree Requirements

Students completing requirements in the College of Liberal Arts receive the Bachelor of Arts (B.A.) degree with the exception of the Bachelor of Science (B.S.) degree in Geography and Bachelor of Science (B.S.) degree in Psychology. A minimum of 120 credit hours is required for graduation.

Students in the College of Liberal Arts must complete the following requirements:

1. **Total University Hours:** All students must complete a minimum of 120 credit hours of college-level work (100-level or greater).
2. **Major:** All students must complete the requirements for the declared major.
3. **Upper Division Hours:** All students must complete a minimum of 48 credit hours in courses numbered 300-499. Courses transferred from two-year or community colleges or Advanced Placement credit cannot be used to satisfy the upper division requirement regardless of the Marshall University course equivalent. Courses completed at a four-year regionally accredited college transfer at the level at which they were completed at the other institution.

Code	Title	Credit Hours
Foreign Language		
Successful completion of 12-hour sequence ending with: [1]		12
FRN 204	Intermediate French IV	
GER 204	Intermediate German II	
JPN 204	Intermediate Japanese IV	
LAT 204	Intermediate Latin	
SPN 204	Intermediate Spanish IV	
Humanities (in addition to the Core II requirement)		
Select one of the following:		3
Any Classics course except:		
CL 200	Building English Vocab	
CL 230	Greek & Roman Epic	
CL 231	Women in Greek & Roman Lit	
CL 232	Greek & Roman Drama (CT)	
CL 233	Greek & Roman Historians (CT)	
CL 234	Greek & Roman Poetry (CT)	
CL 237	Lit in the Time of Nero (CT)	
Any Philosophy course		
Any Religious Studies course except:		
RST 304	The Teachings of Jesus	
RST 351	Classics of Rel Lit	
Other courses may apply as listed in the Schedule of Courses		
Literature		
Select any of the following:		6
Any Classics 200-level course except:		
CL 200	Building English Vocab	
Any English 200, 300- or 400-level course in literature (writing courses do not count)		
Any Latin 300- or 400-level course		
Any Religious Studies course:		
RST 220	Lit of Old Testament	
RST 225	Lit of New Testament	
RST 304	The Teachings of Jesus	
RST 310	The Hebrew Prophets	
RST 351	Classics of Rel Lit	
Any course in French, German, Japanese or Spanish literature		
Other courses may apply as listed in the Schedule of Courses		
Social Sciences (in addition to the Core II requirement)		
Select 9 hours from at least three fields from the following (check prerequisites before registering):		9
Anthropology		
Criminal Justice and Criminology		
Economics any course except:		
ECN 328	Int Microeconomic Analys	
ECN 423	Intro to Econometrics	
Geography any course except:		
GEO 101	Physical Geography (CT)	
GEO 230	Intro to Meteorology (CT)	
GEO 350	Severe Storms and Natl Hzrds	
GEO 425	Climatology	
GEO 430	Environmental Raster GIS	
History		
Political Science		
Psychology		
Sociology		
Women's Studies course:		
WS 101	Intro to Women's Studies	
Natural and Physical Sciences (in addition to the Core II requirement)		
Select one four hour course from one of the following fields (check prerequisites before registering):		4
Biology		
Chemistry		
Geography courses:		
GEO 101	Physical Geography (CT)	
GEO 230	Intro to Meteorology (CT)	
GEO 350	Severe Storms and Natl Hzrds	
Geology		
Natural Resources		
Physical Science		
Physics		

Multicultural Requirement (in addition to the Core II requirement)	
Select any course designated Multicultural	3
International Requirement (in addition to the Core II requirement)	
Select any course deisgnated International	3

[1] Students must complete the sequence beginning with the first course they take.
Students who have had three or more years of a language in high school should take a placement test to see where in the elementary/intermediate (101-204) sequence they should begin their language. Please note that students cannot take a placement examination after they have started a language at Marshall or any other university.
Students also should not take the placement test until they are ready to start a language. Students are encouraged to start language as soon as possible after high school if they intend to remain in the same language they took in high school.

For French, contact Dr. Nicholas Shangler (**shangler@marshall.edu**).
For German, contact Professor Anke Duerr McKown (**duerrmccown@marshall.edu**).
For Japanese, contact Dr. Zeli Rivas (**Rivasz@marshall.edu**).
For Spanish, contact Dr. Jose Luis Morillo (**murillo@marshall.edu**) or Ms. Tracie Wheeler (**Wheelertr@marshall.edu**) to register for the placement exam.
Students who successfully place into a course above 101 can receive up to nine hours back credit for the courses they have placed out of provided that they take and pass with a grade of *C* or better the next course in the sequence. Back credit is awarded only in the semester in which the student takes the next course.
Native and heritage speakers must take a placement test before they register for 101-204 in any language. Students who are native speakers of languages other than those taught by the department can receive a foreign language waiver provided that they can demonstrate speaking, listening, reading, and composition skills in that language. Students must identify a faculty member on campus, who can aid with the assessment of their skills. The chair of Modern Languages will arrange the testing of the student and the notification of the appropriate individuals. To request a foreign language waiver, please contact Dr. Rosario Quintana Villamandos (quintana@marshall.edu).

This requirement also may be waived through conclusive proof of native proficiency in a foreign language and its culture.

College of Science

Contacts: Mr. Brian M. Morgan, Interim Dean
Website: http://www.marshall.edu/cos/

cos@marshall.edu

The College of Science was established in 1976 and is composed of nine departments within four schools: School of Biological and Environmental Sciences, School of Forensic and Criminal Justice Sciences, School of Mathematics and Applied Informatics, and School of Physical Sciences. While the College of Science Dean's Office is located in Science Building 270, the college operates out of several buildings including the Science Building, Morrow Library, Prichard Hall, and Smith Hall. Some lecture and laboratory classes and faculty offices also are in the Robert C. Byrd Biotechnology Science Center and the Weisberg Applied Engineering Complex.

Mission of the College

Scientific and technologically trained people are essential to our nation's health and prosperity in a rapidly expanding global economy. Students majoring in baccalaureate degree programs in the College of Science receive a broad education conducive to pursuing a wide range of career options. Course requirements include solid grounding in the student's chosen area of scientific interest along with studies in humanities and the social sciences. Students receive instruction in a learning environment that encourages competency in written and oral communication skills along with the ability to work in groups. Special emphasis is placed on experiential learning through participation in activities such as undergraduate research and internships. For non-science majors, departments in the College of Science offer a series of courses which focus on enhancing science literacy through instruction in integrated science and practical applications of mathematics.

School of Biological and Environmental Sciences - Dr. Brian Antonsen, Director

The School of Biological and Environmental Sciences (SBES) is committed to teaching students about the science of life at levels that extend in size from the molecular to ecosystem, and which include the study of myriad interactions between living and non-living parts of our world. The school is composed of the Department of Biological Sciences and the Department of Natural Resources and the Environment. These departments offer a diversity of courses in areas such as cell, molecular and medical biology; ecology; organismal biology; evolutionary biology; environmental science; natural resources and recreation management. Students in SBES are actively engaged in research with faculty mentors, and they frequently publish their work, and give presentations at national meetings. Programs in SBES have been designed to prepare students to obtain workforce positions in the life sciences; or, for those who seek further training, to enter either professional programs in a variety of health care disciplines or graduate school to pursue a Master's or Ph.D.

Alumni of these programs have chosen diverse career paths and are now working as health professionals, teaching at all educational levels, serving as environmental researchers and regulators, conducting biomedical and pharmaceutical research, and operating bioscience and consulting businesses that help grow and diversify the West Virginia economy.

School of Forensic and Criminal Justice Sciences - Dr. Dhruba Bora, Director

The School of Forensic and Criminal Justice Sciences (SFCJS) includes the Department of Criminal Justice and Criminology and the Department of Cyber Forensics and Security. The SFCJS unites the top Master of Science in Forensic Science program in the country with a well-established undergraduate and graduate program in Criminal Justice, and a rapidly growing undergraduate major in Cyber Forensics and Security. SFCJS programs focus on real-world application of criminology and scientific detection technologies. Coursework in these programs is multidisciplinary and prepares students for careers in the criminal justice system as well as graduate programs or law school. Our BA, BS, and MS graduates work throughout the country and the world in classic forensic science, digital forensic science, law enforcement, and information assurance professions.

School of Mathematics and Applied Informatics - Dr. Alfred Akinsete, Director

The School of Mathematics and Applied Informatics (SMAI) offers undergraduate and graduate programs in the departments of Mathematics and Computer and Information Technology (CIT). CIT students can receive a bachelor's degree in Computer and Information Technology with an emphasis in Web and Mobile Application Development, Computer Applications, or Gaming and Simulation Development. Students of mathematics can earn degrees in Mathematics and Statistics. The award-winning faculty of SMAI take pride in teaching excellence, both in the classroom and in research settings. Our students benefit from small classes, faculty access, and support services designed to ensure their success. Graduates of both Mathematics and CIT programs frequently go on to graduate school. Those who go into the workforce are employed in virtually every sector of the economy.

School of Physical Sciences - Dr. Michael Castellani, Director

The School of Physical Sciences (SPS) includes the departments of Chemistry, Geology, and Physics. All three departments offer classes with expert faculty complemented by hands on experience in the laboratory or field. Research opportunities for students of the Physical Sciences range in size from nanotechnology to cosmology, and in scope from the theoretical aspects of quantum mechanics to the applied discipline of oil and gas exploration. Class sizes and student to faculty ratios are small, providing some of the best educational experiences available anywhere. A major in Chemistry provides students with preparation to work in the chemical industry, to go on to graduate education in chemistry, or to apply to professional schools in many health-related fields. Majors in Geology receive extensive field training and practical experience, which helps explain our exceptional placement rate (over 95%) of Geology graduates either entering graduate school or securing professional positions in their field of study. A major in Physics provides students with a broad understanding of the laws that govern the universe, from the cosmos to the quark. Physics students acquire a set of highly transferable skills in problem-solving, data analysis, and an understanding of how things work. These skills are in high demand in diverse sectors, opening career paths to physics graduates across different industries, like aerospace, healthcare, energy, materials, technology, computing, education, defense, etc.

Course offerings by all departments within the college are available to science majors and to students in other disciplines who are interested in broadening their skills and knowledge in basic science, mathematics, and computers.

Departments

- Combined College and Professional Degrees (p. 681)
- Department of Biological Sciences (p. 571)
- Department of Chemistry (p. 584)
- Department of Computer and Information Technology (p. 598)
- Department of Criminal Justice and Criminology (p. 604)
- Department of Cyber Forensics and Security (p. 611)
- Department of Geology (p. 615)
- Department of Mathematics (p. 624)
- Department of Natural Resources and the Environment (p. 634)
- Department of Physics (p. 648)
- Pre-Professional Health Care Studies, Interdisciplinary Minor (p. 661)
- Sustainability, Interdisciplinary Minor (p. 682)

Admission Requirements

The ACT scores required for full admission to the College of Science are a minimum mathematics score of 21 and a minimum composite score of 21. For the SAT, a score of 530 in math and a 1060 composite score are required. Students who are fully admitted are allowed to enroll in the major of their choice.

A student who does not meet these admission requirements but still wishes to pursue a program in the College of Science may gain admission by enrolling as a pre-science major[1] and completing the following requirements:

1. Completion of

Code	Title	Credit Hours
Select one of the following:		3
ENG 101	Beginning Composition	
ENG 200H	Texting the World (CT)	
ENG 201H	English Comp Honors	
Total Credit Hours		**3**

with a grade of *C* or higher.

2. Completion of one of the following:

Code	Title	Credit Hours
Select one of the following:		3-5
MTH 127	College Algebra-Expanded	
MTH 130	College Algebra	
MTH 132	Precalculus with Sci Applica	
MTH 122	Plane Trigonometry	
MTH 140	Applied Calculus	
MTH 229	Calculus/Analytic Geom I (CT)	
Total Credit Hours		**3-5**

with a grade of *C* or higher. (For Criminal Justice majors, MTH 160 Applied Math Reasoning (CT) will fulfill the math requirement.)

3. A transfer student with a GPA of less than 2.0 who has not passed college algebra with a *C* or better will be placed in pre-science until he or she has a *C* or better in one of the following:

Code	Title	Credit Hours
Select one of the following:		3-5
MTH 127	College Algebra-Expanded	
MTH 130	College Algebra	
MTH 132	Precalculus with Sci Applica	
MTH 122	Plane Trigonometry	
MTH 140	Applied Calculus	
MTH 229	Calculus/Analytic Geom I (CT)	
Total Credit Hours		**3-5**

[1] pre-biology, pre-chemistry, pre-computer information & technology, pre-criminal justice, pre-digital forensics, pre-environmental science, pre-geology, pre-mathematics, pre-natural resources & recreation management, and pre-physics

After meeting these requirements students will become fully admitted and will be allowed to declare a major.

Academic Policies

For students transferring from another institution to Marshall, the College of Science will permit the application of any appropriate transfer credits accepted by the university to meet general education requirements. For coursework to be accepted as fulfilling upper division requirements, that work must have been earned at institutions accredited to offer junior/senior level courses.

Degree Requirements

In addition to satisfying the requirements for a specific major, students must meet the college requirements outlined below and the university requirements as described in this catalog.

Students entering any baccalaureate degree program in the College of Science are responsible for meeting core foundations, which are baccalaureate program initiatives approved by the faculty and the university president for all students. Students are to consult with their academic/program advisors or the chairperson of their major departments for guidance in determining the specific details of meeting the above-referenced baccalaureate curricular initiatives.

General College Requirements

1. Candidates for graduation must complete all Marshall University's Core Curriculum requirements as defined in this catalog.
2. Candidates for graduation must apply for graduation through the office of the dean.
3. Candidates for graduation must have a Grade Point Average of 2.0 or higher on all work attempted at Marshall University, and must have an average of 2.0 or higher in their major. Quality point deficiencies in the major cannot be reduced by taking lower division (100/200 level) courses within the major department, except as provided for by the *D/F* Repeat Rule; exceptions may be allowed by the department chair with the concurrence of the dean.
4. A minimum of 120 semester hours of credit is required for graduation. Forty (40) hours must be earned in courses numbered 300-499. Courses taken more than once will only count one time for graduation hours. Courses transferred from two-year or community colleges cannot be used to satisfy the upper division requirement.
5. The *CR/NC* option cannot be used:
   a. for any course taken to meet the specific requirements for a B.S. degree (see below);
   b. for any course taken to fulfill the requirements for a departmental major; or
   c. for any course taken to fulfill the requirements for a minor.
6. Juniors and seniors are required to meet with an advisor in the Dean's Office to review an evaluation to determine if they are making satisfactory progress toward graduation.

College of Science Requirements for the B.A. and B.S. Degrees

(Requirements vary for some programs. See major-specific requirements for details.)

Code	Title	Credit Hours
Requirements		
Natural and Physical Sciences		
Courses to be distributed in at least two fields.		11
Mathematics - Calculus		
Requirement varies by department. Students with lower ACT or SAT scores will be placed in the mathematics sequence at an appropriate level.		3-5
Total Credit Hours		**14-16**

Department of Biological Sciences

Contacts: Dr. Gary Schultz, Interim Chair
Website: http://www.marshall.edu/biology (http://www.marshall.edu/biology/)

biology@marshall.edu

Courses offered by the Department of Biological Sciences are intended to meet the needs of students preparing themselves for careers in the biological and related sciences, or who want a knowledge of the life sciences as part of their general education and/or to satisfy science requirements in other departments or programs.

Programs

- Biological Sciences, Accelerated Master's Degree (p. 578)
- Biological Sciences, B.S. (p. 578)
- Biological Sciences, Minor (p. 584)

Courses

- General Education Course

BSC 104 Introduction to Biology **3 Credit hours**
Fundamentals of biology with emphasis on the unity of life, energetics, genetics and the world of living things. Intended for non-science majors.
Co-req: BSC 104L
Attributes: Natural Sciences, Core II Natural Sciences
Grade Mode: Normal Grading Mode

BSC 104L Introduction to Biology Lab **1 Credit hour**
Laboratory companion course to BSC 104. Introduction of the scientific method, with focus on a survey of the fundamental principles of the biological sciences as they apply to life on earth.
Pre-req: BSC 104 (may be taken concurrently) with a minimum grade of C.
Concurrent PR: BSC 104
Attributes: Natural Sciences, Core II Natural Sciences
Grade Mode: Normal Grading Mode

BSC 105 Human Biology **3 Credit hours**
Fundamentals of biological human structure, function, and interactions with the environment. Intended for non-science majors. Does not count for health professions credit.
Co-req: BSC 105L
Attributes: Natural Sciences, Core II Natural Sciences
Grade Mode: Normal Grading Mode

BSC 105L Human Biology Lab **1 Credit hour**
Laboratory companion course to BSC 105. Investigations of human structure, function, and interactions with the environment. Intended for non-science majors; does not count for health professions credit.
Co-req: BSC 105
Attributes: Natural Sciences, Core II Natural Sciences
Grade Mode: Normal Grading Mode

BSC 120 Principles of Biology I **3 Credit hours**
Study of core biological principles common to all organisms. Intended for science majors and pre-professional students.
Pre-req: (ACT Math with a score of 21 or SAT Mathematics Before Mar. 16 with a score of 500 or SAT MATH SECTION SCORE with a score of 530) or (BSC 104 with a minimum grade of C and BSC 104L with a minimum grade of C) or (BSC 105 with a minimum grade of C or BSC 105L with a minimum grade of C).
Co-req: BSC 120L
Attributes: Natural Sciences, Core II Natural Sciences
Grade Mode: Normal Grading Mode

BSC 120H Principles of Biology I Honors **3 Credit hours**
Study of basic biological principles common to all organisms. Intended for science majors and pre-professional students.
Pre-req: Admitted Honors College with a score of 1 and (ACT Math with a score of 21 or SAT Mathematics Before Mar. 16 with a score of 500 or SAT MATH SECTION SCORE with a score of 530) and (BSC 120L (may be taken concurrently) with a minimum grade of C or BSC 120LH (may be taken concurrently) with a minimum grade of C) or (BSC 104 with a minimum grade of C and BSC 104L with a minimum grade of C) or (BSC 105 with a minimum grade of C and BSC 105L with a minimum grade of C).
Concurrent PR: BSC 120L or BSC 120LH
Attributes: Honors, Natural Sciences, Core II Natural Sciences
Grade Mode: Normal Grading Mode

BSC 120L Principles of Biology I Lab **1 Credit hour**
Laboratory companion course to BSC 120. Practical exercises focuses on investigation of core biological principles common to all organisms.
Pre-req: ACT Math with a score of 21 or SAT MATH SECTION SCORE with a score of 530 or SAT Mathematics Before Mar. 16 with a score of 500 or (BSC 104 with a minimum grade of C and BSC 104L with a minimum grade of C) or (BSC 105 with a minimum grade of C and BSC 105L with a minimum grade of C).
Co-req: BSC 120
Attributes: Natural Sciences, Core II Natural Sciences
Grade Mode: Normal Grading Mode

BSC 120LH Prin of Biology I Lab Honors **1 Credit hour**
Laboratory companion course to BSC 120. Practical exercises focused on investigation of core biological principles common to all organisms.
Pre-req: Admitted Honors College with a score of 1 and (ACT Math with a score of 21 or SAT Mathematics Before Mar. 16 with a score of 500 or SAT MATH SECTION SCORE with a score of 530) or (BSC 104 with a minimum grade of C and BSC 104L with a minimum grade of C) or (BSC 105 with a minimum grade of C and BSC 105L with a minimum grade of C).
Co-req: BSC 120H
Attributes: Honors, Natural Sciences, Core II Natural Sciences
Grade Mode: Normal Grading Mode

BSC 121 Principles of Biology II **3 Credit hours**
A continuation of the study of core biological principles common to all organisms. Intended for science majors and pre-professional students.
Pre-req: BSC 120 with a minimum grade of C or BSC 120H with a minimum grade of C.
Co-req: BSC 121L
Attributes: Natural Sciences, Core II Natural Sciences
Grade Mode: Normal Grading Mode

BSC 121L Prin of Biology II Lab **1 Credit hour**
Laboratory companion course to BSC 121. Continuation of practical exercises focused on investigation of core biological principles common to all organisms.
Pre-req: BSC 121 (may be taken concurrently) with a minimum grade of C.
Concurrent PR: BSC 121
Attributes: Natural Sciences, Core II Natural Sciences
Grade Mode: Normal Grading Mode

BSC 227 Human Anatomy **3 Credit hours**
Study of gross and microscopic anatomy of human body systems and their development. Provides preparation for degrees in health professions. Does not count towards a major in Biological Science.
Co-req: BSC 227L
Attributes: Natural Sciences
Grade Mode: Normal Grading Mode

BSC 227L Human Anatomy Lab **1 Credit hour**
Laboratory companion course to BSC 227. Practical and computer aided exercises related to gross and microscopic anatomy of human body systems and their development. Does not count toward a major in Biological Sciences.
Co-req: BSC 227
Attributes: Natural Sciences
Grade Mode: Normal Grading Mode

BSC 228 Human Physiology **3 Credit hours**
Study of normal human physiology, from cells to systems. Provides the scientific background for understanding pathophysiology and preparation for degrees in health professions. Does not count toward a major in Biological Sciences.
Pre-req: BSC 227 with a minimum grade of C and BSC 227L with a minimum grade of C.
Co-req: BSC 228L
Attributes: Natural Sciences, Core II Natural Sciences
Grade Mode: Normal Grading Mode

BSC 228L Human Physiology Lab **1 Credit hour**
Laboratory companion course to BSC 228. Introduction of the scientific method, with focus on interpretation of data and application toward physiological systems. Does not count toward a major in Biological Sciences.
Pre-req: BSC 227 with a minimum grade of C and BSC 227L with a minimum grade of C.
Co-req: BSC 228
Attributes: Natural Sciences, Core II Natural Sciences
Grade Mode: Normal Grading Mode

BSC 250 Microbiol & Human Disease **3 Credit hours**
Introduction to microbiology with emphasis on the role of microorganisms in the disease process. Does not count towards a major in Biological Sciences.
Pre-req: BSC 227 with a minimum grade of C and BSC 227L with a minimum grade of C.
Co-req: BSC 250L
Attributes: Natural Sciences, Core II Natural Sciences
Grade Mode: Normal Grading Mode

BSC 250L Microbio and Human Disease Lab **1 Credit hour**
Laboratory companion course to BSC 250. Practical exercises with emphasis on microscopy, microorganism identification, and aseptic technique. Does not count towards a major in Biological Sciences.
Pre-req: BSC 227 with a minimum grade of C and BSC 227L with a minimum grade of C.
Co-req: BSC 250
Attributes: Natural Sciences, Core II Natural Sciences
Grade Mode: Normal Grading Mode

BSC 280 Special Topics **1-4 Credit hours**
Attributes: Natural Sciences
Grade Mode: Normal Grading Mode

BSC 281 Special Topics **1-4 Credit hours**
Attributes: Natural Sciences
Grade Mode: Normal Grading Mode

BSC 282 Special Topics **1-4 Credit hours**
Attributes: Natural Sciences
Grade Mode: Normal Grading Mode

BSC 283 Special Topics **1-4 Credit hours**
Attributes: Natural Sciences
Grade Mode: Normal Grading Mode

BSC 301 Vertebrate Embryology **4 Credit hours**
Vertebrate development based chiefly on frog, chick and pig embryos. 2 lec-4 lab. Vertebrate development based chiefly on frog, chick and pig embryos. 2 lec-4 lab.
Pre-req: BSC 121 with a minimum grade of C and BSC 121L with a minimum grade of C.
Attributes: Natural Sciences
Grade Mode: Normal Grading Mode

BSC 302 Principles of Microbiology **3 Credit hours**
Basic microbiological techniques, fundamental principles of microbial action, physiological processes, immunology, serology, disease process. This course is lecture only (the associated lab for this course is listed under a different course number)
Pre-req: BSC 121 with a minimum grade of C and BSC 121L with a minimum grade of C.
Attributes: Natural Sciences
Grade Mode: Normal Grading Mode

BSC 304 Microbiology Lab **2 Credit hours**
A laboratory course emphasizing basic microbiological techniques including preparation of culture media, gram staining, isolation and identification of bacteria from diverse environments, and evaluation of antiseptics and disinfectants. A laboratory course emphasizing basic microbiological techniques including preparation of culture media, gram staining, isolation and identification of bacteria from diverse environments, and evaluation of antiseptics and disinfectants.
Pre-req: BSC 121 with a minimum grade of C and BSC 121L with a minimum grade of C.
Attributes: Natural Sciences
Grade Mode: Normal Grading Mode

BSC 312 Invertebrate Zoology **4 Credit hours**
Survey of invertebrate phyla from protists through non-vertebrate chordates. Emphasis is placed upon identification of taxa, development, microanatomy, life histories and evolutionary relationship.
Pre-req: BSC 121 with a minimum grade of C and BSC 121L with a minimum grade of C.
Attributes: Natural Sciences
Grade Mode: Normal Grading Mode

BSC 320 Principles of Ecology **4 Credit hours**
A fundamental approach to the basic principles underlying the interrelationships of organisms with their biotic and abiotic environments. A variety of aquatic and terrestrial ecosystems will be studied in the field and in the laboratory. 3 lec-3 lab. A fundamental approach to the basic principles underlying the interrelationships of organisms with their biotic and abiotic environments. A variety of aquatic and terrestrial ecosystems will be studied in the field and in the laboratory. 3 lec-3 lab.
Pre-req: BSC 121 with a minimum grade of C and BSC 121L with a minimum grade of C.
Attributes: Natural Sciences
Grade Mode: Normal Grading Mode

BSC 322 Principles Cell Biology **4 Credit hours**
A fundamental approach to the principles of cell biology covering general cellular structure and function,organelles, intercellular interactions, molecular interactions, and modern cellular and molecular methods. 3 lec-3 lab.
Pre-req: BSC 121 with a minimum grade of C and BSC 121L with a minimum grade of C.
Attributes: Natural Sciences
Grade Mode: Normal Grading Mode

BSC 324 Principles of Genetics **4 Credit hours**
The fundamental principles and mechanisms of inheritance. 3 lec-3 lab.
Pre-req: BSC 121 with a minimum grade of C and BSC 121L with a minimum grade of C.
Attributes: Natural Sciences
Grade Mode: Normal Grading Mode

BSC 332 Principles of Human Anatomy **3 Credit hours**
An overview of the major anatomical regions and functional systems, with a focus on human anatomy in a comparative and evolutionary context.
Pre-req: BSC 121 with a minimum grade of C and BSC 121L with a minimum grade of C and BSC 332L (may be taken concurrently) with a minimum grade of C.
Concurrent PR: BSC 332L
Attributes: Natural Sciences
Grade Mode: Normal Grading Mode

BSC 332L Prin of Human Anatomy Lab **1 Credit hour**
Laboratory companion course to BSC 332. Practical investigation of human anatomy in a comparative and evolutionary context.
Pre-req: BSC 332 (may be taken concurrently) with a minimum grade of C and BSC 121 with a minimum grade of C and BSC 121L with a minimum grade of C.
Concurrent PR: BSC 332
Attributes: Natural Sciences
Grade Mode: Normal Grading Mode

BSC 334 Principles of Human Physiology **3 Credit hours**
An overview of the major physiological systems, with focus on comparative, molecular, and pathophysiology.
Pre-req: BSC 121 with a minimum grade of C and BSC 121L with a minimum grade of C and BSC 334L (may be taken concurrently) with a minimum grade of C.
Concurrent PR: BSC 334L
Attributes: Natural Sciences
Grade Mode: Normal Grading Mode

BSC 334L Prin of Human Physiology Lab **1 Credit hour**
Laboratory companion course to BSC 334. Investigation of key physiological systems with focus on data acquisition and analysis.
Pre-req: BSC 334 (may be taken concurrently) with a minimum grade of C and BSC 121 with a minimum grade of C and BSC 121L with a minimum grade of C.
Concurrent PR: BSC 334
Attributes: Natural Sciences
Grade Mode: Normal Grading Mode

BSC 340 Principles of Evolution **3 Credit hours**
An overview of the unity and diversity of life, and the mechanisms and processes of evolutionary change at the population, organismal, and molecular levels.
Pre-req: BSC 121 with a minimum grade of C and BSC 121L with a minimum grade of C.
Attributes: Natural Sciences
Grade Mode: Normal Grading Mode

BSC 401 Ichthyology **4 Credit hours**
Anatomy, physiology, ecology, zoogeography, economic importance and classification of major groups and representative local species of fishes. 2 lec-2 lab and field.
Pre-req: (BSC 320 with a minimum grade of D or BSC 322 with a minimum grade of D or BSC 324 with a minimum grade of D or BSC 332 with a minimum grade of D) or (BSC 121 with a minimum grade of C and BSC 121L with a minimum grade of C and NRE 322 with a minimum grade of D) or (BSC 121 with a minimum grade of C and BSC 121L with a minimum grade of C and NRE 323 with a minimum grade of D).
Attributes: Natural Sciences
Grade Mode: Normal Grading Mode

BSC 404 Cellular Physiology **3 Credit hours**
In depth analysis of the physiological and molecular processes that underlie the functions of cells, using examples from diverse taxa. Focus on biomedical and biotechnical implications.
Pre-req: BSC 302 with a minimum grade of D or BSC 322 with a minimum grade of D or BSC 324 with a minimum grade of D or BSC 334 with a minimum grade of D.
Attributes: Natural Sciences
Grade Mode: Normal Grading Mode

BSC 406 Herpetology **4 Credit hours**
Taxonomy, morphology, distribution, life history, and ecology of reptiles and amphibians with a special emphasis on representatives native to West Virginia. 2 lec-2 lab. Taxonomy, morphology, distribution, life history, and ecology of reptiles and amphibians with a special emphasis on representatives native to West Virginia. 2 lec-2 lab.
Pre-req: (BSC 320 with a minimum grade of D or BSC 322 with a minimum grade of D or BSC 324 with a minimum grade of D or BSC 332 with a minimum grade of D) or (BSC 121 with a minimum grade of C and (NRE 322 with a minimum grade of D or NRE 323 with a minimum grade of D) and BSC 121L with a minimum grade of C).
Attributes: Natural Sciences
Grade Mode: Normal Grading Mode

BSC 408 Ornithology **4 Credit hours**
An introduction to avian biology: identification, distribution, migration, and breeding activities of birds.2 lec-4 lab.
Pre-req: (BSC 320 with a minimum grade of D or BSC 322 with a minimum grade of D or BSC 324 with a minimum grade of D or BSC 332 with a minimum grade of D) or (BSC 121 with a minimum grade of C and (NRE 322 with a minimum grade of D or NRE 323 with a minimum grade of D) and BSC 121L with a minimum grade of D).
Attributes: Natural Sciences
Grade Mode: Normal Grading Mode

BSC 409 Mammalogy **4 Credit hours**
A study of the structural features, evolution and classification of mammals; other topics will include ecology, zoogeography, behavior, reproductive strategies, physiological adaptation to extreme environments and economic aspects.3 lec-3 lab and field.
Pre-req: (BSC 320 with a minimum grade of D or BSC 322 with a minimum grade of D or BSC 324 with a minimum grade of D or BSC 332 with a minimum grade of D) or (BSC 121 with a minimum grade of C and (NRE 322 with a minimum grade of D or NRE 323 with a minimum grade of D) and BSC 121L with a minimum grade of C).
Attributes: Natural Sciences
Grade Mode: Normal Grading Mode

BSC 410 Remote Sensing/GIS Appl **4 Credit hours**
A study of the physical systems for collecting remotely sensed data. Statistical/spatial analysis and modeling using image processing/geographic information/spatial computer software systems with earth resources applications. A study of the physical systems for collecting remotely sensed data. Statistical/spatial analysis and modeling using image processing/geographic information/spatial computer software systems with earth resources applications.
Pre-req: PHY 201 with a minimum grade of D or BSC 320 with a minimum grade of D or BSC 340 with a minimum grade of D or NRE 423 with a minimum grade of D or NRE 433 with a minimum grade of D.
Attributes: Natural Sciences
Grade Mode: Normal Grading Mode

BSC 411 Dgtl Image Proc/GIS Model **4 Credit hours**
A study of image processing/geographic information/spatial analysis systems, concurrent and parallel image processing 3-D modeling scenarios utilizing geophysical data for computer simulation modeling. A study of image processing/geographic information/spatial analysis systems, concurrent and parallel image processing 3-D modeling scenarios utilizing geophysical data for computer simulation modeling.
Pre-req: PHY 201 with a minimum grade of D or BSC 320 with a minimum grade of D or BSC 340 with a minimum grade of D or NRE 423 with a minimum grade of D or NRE 433 with a minimum grade of D.
Attributes: Natural Sciences
Grade Mode: Normal Grading Mode

BSC 413 Prin of Organic Evolution **3 Credit hours**
Facts and possible mechanisms underlying the unity and diversity of life with emphasis on Neo-Darwinian concepts of the role of species in evolutionary phenomena. Facts and possible mechanisms underlying the unity and diversity of life with emphasis on Neo-Darwinian concepts of the role of species in evolutionary phenomena.
Pre-req: BSC 302 or BSC 320 or BSC 322 or BSC 324.
Attributes: Natural Sciences
Grade Mode: Normal Grading Mode

BSC 416 Plant Taxonomy **4 Credit hours**
Recognition of our native seed plants and ferns. 2 lec-4 lab. Recognition of our native seed plants and ferns. 2 lec-4 lab.
Pre-req: BSC 302 with a minimum grade of D or BSC 320 with a minimum grade of D or BSC 322 with a minimum grade of D or BSC 324 with a minimum grade of D or BSC 340 with a minimum grade of D or NRE 322 with a minimum grade of D or NRE 401 with a minimum grade of D.
Attributes: Natural Sciences
Grade Mode: Normal Grading Mode

BSC 417 Biostatistics **3 Credit hours**
Statistical skills for biological/biomedical research, with emphasis on applications. Experimental design/survey sampling, estimation/hypothesis testing procedures,regression, ANOVA, multiple comparisons. Implementation using statistical software such as SAS, BMDP.
Pre-req: BSC 302 with a minimum grade of D or BSC 320 with a minimum grade of D or BSC 322 with a minimum grade of D or BSC 324 with a minimum grade of D or BSC 332 with a minimum grade of D or BSC 334 with a minimum grade of D or BSC 340 with a minimum grade of D.
Attributes: Natural Sciences
Grade Mode: Normal Grading Mode

BSC 420 Plant Physiology **4 Credit hours**
Experimental study of plant life processes to include applicable biophysical and biochemical principles. 2 lec-4 lab. Experimental study of plant life processes to include applicable biophysical and biochemical principles. 2 lec-4 lab.
Pre-req: BSC 302 with a minimum grade of D or BSC 320 with a minimum grade of D or BSC 322 with a minimum grade of D or BSC 324 with a minimum grade of D or BSC 334 with a minimum grade of D.
Attributes: Natural Sciences
Grade Mode: Normal Grading Mode

BSC 421 Phycology **4 Credit hours**
Morphology, taxonomy, and techniques used in the study of fresh-water algae with emphasis upon applications of ecological principles to current water quality problems. 2 lec-4 lab.
Pre-req: (BSC 320 with a minimum grade of D or BSC 322 with a minimum grade of D or BSC 324 with a minimum grade of D or BSC 332 with a minimum grade of D) or (BSC 121 with a minimum grade of C and (NRE 322 with a minimum grade of D or NRE 323 with a minimum grade of D) and BSC 121L with a minimum grade of C).
Attributes: Natural Sciences
Grade Mode: Normal Grading Mode

BSC 422 Animal Physiology **3 Credit hours**
A comparative study of physiological principles in animal cells, organs, and systems. Focus on animal's reactions to their environment, and how comparative physiology applies to natural ecosystems and human health.
Pre-req: BSC 322 with a minimum grade of D and CHM 355 with a minimum grade of D and (MTH 140 with a minimum grade of D or MTH 140H with a minimum grade of D or MTH 132 with a minimum grade of D or MTH 229 with a minimum grade of D or MTH 229H with a minimum grade of D).
Attributes: Natural Sciences
Grade Mode: Normal Grading Mode

BSC 423 Comp Vertebrate Anatomy **4 Credit hours**
Structure, function and relationships of systems of selected vertebrates with an emphasis on embryology and evolution. 2 lec.-4 lab.
Pre-req: BSC 302 with a minimum grade of D or BSC 320 with a minimum grade of D or BSC 322 with a minimum grade of D or BSC 324 with a minimum grade of D or BSC 332 with a minimum grade of D or BSC 334 with a minimum grade of D.
Attributes: Natural Sciences
Grade Mode: Normal Grading Mode

BSC 424 Animal Parasitology **4 Credit hours**
Morphology, life histories, classification, and host relationships of common parasites. 2 lec-4 lab. Morphology, life histories, classification, and host relationships of common parasites. 2 lec-4 lab.
Pre-req: BSC 302 with a minimum grade of D or BSC 320 with a minimum grade of D or BSC 322 with a minimum grade of D or BSC 324 with a minimum grade of D or BSC 332 with a minimum grade of D or BSC 334 with a minimum grade of D.
Attributes: Natural Sciences
Grade Mode: Normal Grading Mode

BSC 425 Systematics **3 Credit hours**
Biosystematics is a unifying discipline that combines taxonomy (collecting, describing and naming organisms), phylogenetics (evolutionary relationships among species), and classification (organization of taxa into groups which ultimately reflect evolutionary relationship). Biosystematics is a unifying discipline that combines taxonomy (collecting, describing and naming organisms), phylogenetics (evolutionary relationships among species), and classification (organization of taxa into groups which ultimately reflect evolutionary relationship).
Pre-req: (BSC 320 with a minimum grade of D or BSC 322 with a minimum grade of D or BSC 324 with a minimum grade of D or BSC 332 with a minimum grade of D) or (BSC 121 with a minimum grade of C and (NRE 322 with a minimum grade of D or NRE 323 with a minimum grade of D) and BSC 121L with a minimum grade of C).
Attributes: Natural Sciences
Grade Mode: Normal Grading Mode

BSC 426 Medical Entomology **4 Credit hours**
Role of certain insects and other arthropods in the transmission of disease organisms and methods of control.2 lec-4 lab.
Pre-req: (BSC 320 with a minimum grade of D or BSC 322 with a minimum grade of D or BSC 324 with a minimum grade of D or BSC 332 with a minimum grade of D) or (BSC 121 with a minimum grade of C and (NRE 322 with a minimum grade of D or NRE 323 with a minimum grade of D) and BSC 121L with a minimum grade of C).
Attributes: Natural Sciences
Grade Mode: Normal Grading Mode

BSC 428 Neuroscience **3 Credit hours**
The fundamentals of cellular and systems neuroscience, with application towards understanding current research and biomedical problems.
Pre-req: BSC 322 with a minimum grade of D or BSC 334 with a minimum grade of D or BSC 422 with a minimum grade of D or (BSC 121 with a minimum grade of D and CHM 355 with a minimum grade of D).
Attributes: Natural Sciences
Grade Mode: Normal Grading Mode

BSC 429 Metabolic Systems **3 Credit hours**
Discussion of metabolic processes responsible for the activity of all living systems, factors that impact metabolic processes such as toxicology and pathology, and applications of metabolic pathways to biotechnology.
Pre-req: BSC 322 with a minimum grade of D or BSC 334 with a minimum grade of D or BSC 422 with a minimum grade of D or (BSC 121 with a minimum grade of D and CHM 355 with a minimum grade of D).
Attributes: Natural Sciences
Grade Mode: Normal Grading Mode

BSC 430 Plant Ecology **4 Credit hours**
The study of plants and their interactions with their environment at different levels of ecological organization: individuals, populations, communities, and ecosystems. Emphasis on quantitative analysis of ecological data. The study of plants and their interactions with their environment at different levels of ecological organization: individuals, populations, communities, and ecosystems. Emphasis on quantitative analysis of ecological data.
Pre-req: BSC 320 with a minimum grade of D or (BSC 121 with a minimum grade of D and BSC 121L with a minimum grade of D and NRE 322 with a minimum grade of C).
Attributes: Natural Sciences
Grade Mode: Normal Grading Mode

BSC 431 Limnology **4 Credit hours**
Study of inland waters; ecological factors affecting lake and stream productivity and various aquatic communities. Study of inland waters; ecological factors affecting lake and stream productivity and various aquatic communities.
Pre-req: BSC 320 with a minimum grade of D or (BSC 121 with a minimum grade of D and (NRE 323 with a minimum grade of D or NRE 431 with a minimum grade of D or NRE 435 with a minimum grade of D) and BSC 121L with a minimum grade of D).
Attributes: Natural Sciences
Grade Mode: Normal Grading Mode

BSC 438 Emerging Infectious Diseases **3 Credit hours**
Introduces students to infectious diseases that are either newly emergent or have returned to prominence within the last decade.
Pre-req: BSC 302 with a minimum grade of D or BSC 320 with a minimum grade of D or BSC 322 with a minimum grade of D or BSC 324 with a minimum grade of D or BSC 332 with a minimum grade of D or BSC 334 with a minimum grade of D or BSC 340 with a minimum grade of D.
Attributes: Natural Sciences
Grade Mode: Normal Grading Mode

BSC 443 Microbial Genetics **3 Credit hours**
Microbial Genetics covers the essential functions of DNA replication and gene expression in prokaryotic cells. The course includes molecular genetics of bacteria and phages, bioinformatics and discussion of laboratory techniques. Microbial Genetics covers the essential functions of DNA replication and gene expression in prokaryotic cells. The course includes molecular genetics of bacteria and phages, bioinformatics and discussion of laboratory techniques.
Pre-req: BSC 302 with a minimum grade of D or BSC 322 with a minimum grade of D or BSC 324 with a minimum grade of D or BSC 334 with a minimum grade of D.
Attributes: Natural Sciences
Grade Mode: Normal Grading Mode

BSC 445 Microbial Ecology **3 Credit hours**
This course introduces students to the vital roles that microbes play in sustaining life on earth. Includes both theoretical and practical concepts ranging from the origin of life to biodegradation. This course introduces students to the vital roles that microbes play in sustaining life on earth. Includes both theoretical and practical concepts ranging from the origin of life to biodegradation.
Pre-req: BSC 302 with a minimum grade of D or BSC 320 with a minimum grade of D or BSC 322 with a minimum grade of D or BSC 324 with a minimum grade of D or BSC 340 with a minimum grade of D.
Attributes: Natural Sciences
Grade Mode: Normal Grading Mode

BSC 448 Introductory Immunology **3 Credit hours**
Comprehensive study of the molecules, cells and processes of the immune system. Also covered are diseases with an immunologic basis and technological applications of immunological principles. Pre: C or better in BSC 121, CHM 212 Comprehensive study of the molecules, cells and processes of the immune system. Also covered are diseases with an immunologic basis and technological applications of immunological principles. Pre: C or better in BSC 121, CHM 212
Pre-req: BSC 302 with a minimum grade of D or BSC 322 with a minimum grade of D or BSC 324 with a minimum grade of D or BSC 334 with a minimum grade of D.
Attributes: Natural Sciences
Grade Mode: Normal Grading Mode

BSC 450 Molecular Biology **3 Credit hours**
Advanced principles in molecular function emphasizing current research using recombinant DNA methodology.
Pre-req: BSC 302 with a minimum grade of D or BSC 322 with a minimum grade of D or BSC 324 with a minimum grade of D or BSC 334 with a minimum grade of D.
Attributes: Natural Sciences
Grade Mode: Normal Grading Mode

BSC 451 Molecular Medicine **3 Credit hours**
Discussion of applications of molecular biology to modern medicine, including diagnostics, treatments, and development of new strategies and interventions.
Pre-req: BSC 302 with a minimum grade of D or BSC 322 with a minimum grade of D or BSC 324 with a minimum grade of D or BSC 334 with a minimum grade of D.
Attributes: Natural Sciences
Grade Mode: Normal Grading Mode

BSC 454 Princ Adv Techn Mol Biol **3 Credit hours**
Students will gain an understanding of modern molecular biology through standard and novel methods and understand and criticize the published literature.
Pre-req: BSC 322 or BSC 324 or BSC 365 or BSC 450.
Attributes: Natural Sciences
Grade Mode: Normal Grading Mode

BSC 456 Genes and Development **3 Credit hours**
Focuses on mechanisms of complex organismal development including cell specification, morphogenesis, and induction. Genetic manipulations of the model organism Drosophilia will illustrate current information.
Pre-req: BSC 302 with a minimum grade of D or BSC 322 with a minimum grade of D or BSC 324 with a minimum grade of D or BSC 334 with a minimum grade of D.
Attributes: Natural Sciences
Grade Mode: Normal Grading Mode

BSC 458 Bioinformatics **3 Credit hours**
Discussion of modern computational approaches that help us use and understand massive databases of biological information including DNA, RNA, and protein sequence data. Students will use computational tools to extract information and meaning from real databases.
Pre-req: BSC 302 with a minimum grade of D or BSC 322 with a minimum grade of D or BSC 324 with a minimum grade of D or BSC 344 with a minimum grade of D.
Attributes: Natural Sciences
Grade Mode: Normal Grading Mode

BSC 460 Conservation Biology **3 Credit hours**
This course focuses on the North American model of wildlife conservation (and its history), principles of biological diversity, threats to habitats and species of concern, and conservation policy.
Pre-req: BSC 320 with a minimum grade of D or (BSC 121 with a minimum grade of C and (NRE 220 with a minimum grade of D or NRE 320 with a minimum grade of D or NRE 322 with a minimum grade of D) and BSC 121L with a minimum grade of C).
Attributes: Natural Sciences
Grade Mode: Normal Grading Mode

BSC 463 Bioethics **3 Credit hours**
Discussion of ethical issues in scientific research: fraud, informed consent, genetic testing, gene therapy, cloning, new drugs, vaccines and foods produced via engineered organisms. Includes analysis of case studies and communications practices.
Attributes: Natural Sciences
Grade Mode: Normal Grading Mode

BSC 465 Biology of Reptiles **4 Credit hours**
A survey of the reptiles of the world with special emphasis placed on forms resident to West Virginia, including aspects of ecology, physiology, zoogeography, anatomy, taxonomy, and behavior.
Pre-req: BSC 320 with a minimum grade of D or BSC 322 with a minimum grade of D or BSC 324 with a minimum grade of D or BSC 332 with a minimum grade of D or (BSC 121 with a minimum grade of C and (NRE 322 with a minimum grade of C or NRE 323 with a minimum grade of C) and BSC 121L with a minimum grade of C).
Attributes: Natural Sciences
Grade Mode: Normal Grading Mode

BSC 466 Biology of Amphibians **4 Credit hours**
A survey of the reptiles of the world with special emphasis placed on forms resident to West Virginia, including aspects of ecology, physiology, zoogeography, anatomy, taxonomy, and behavior.
Pre-req: BSC 121 with a minimum grade of C.
Grade Mode: Normal Grading Mode

BSC 480 Special Topics **1-4 Credit hours**
Attributes: Natural Sciences
Grade Mode: Normal Grading Mode

BSC 481 Special Topics **1-4 Credit hours**
Attributes: Natural Sciences
Grade Mode: Normal Grading Mode

BSC 482 Special Topics **1-4 Credit hours**
Attributes: Natural Sciences
Grade Mode: Normal Grading Mode

BSC 483 Special Topics **1-4 Credit hours**
Attributes: Natural Sciences
Grade Mode: Normal Grading Mode

BSC 485 Independent Study **1-4 Credit hours**
Attributes: No Textbook Required, Natural Sciences
Grade Mode: Credit/No Credit Grade Only

BSC 486 Independent Study **1-4 Credit hours**
Attributes: Natural Sciences
Grade Mode: Credit/No Credit Grade Only

BSC 487 Independent Study **1-4 Credit hours**
Attributes: Natural Sciences
Grade Mode: Credit/No Credit Grade Only

BSC 488 Independent Study **1-4 Credit hours**
Attributes: Natural Sciences
Grade Mode: Credit/No Credit Grade Only

BSC 491 Capstone Experience **2 Credit hours**
A student-driving research or career shadowing experience under a qualified mentor. Must be approved by the Department of Biological Sciences prior to registration.
Attributes: Capstone Course, No Textbook Required, Natural Sciences
Grade Mode: Normal Grading Mode

Faculty

Professors
Fet, Georgel, O'Keefe, Price, Strait, Trzyna, Valluri, Zhu

Associate Professors
Antonsen, Axel, Chirchir, LoCascio, Mays, Mosher, Schultz, Spitzer, Waldron, Welch

Assistant Professors

H. Cyphert, Palmquist, Puppo, Shakirov

Term Faculty
T. Cyphert

Biological Sciences, Accelerated Master's Degree

Accelerated Master's Degree in Biological Sciences

Undergraduates accepted to an Accelerated Master's Degree program can begin taking master's level classes while still in the undergraduate program. Up to 12 graduate credits can be used to fulfill requirements for both the undergraduate and the master's degrees, effectively reducing the cost of, and time to, degree. Graduates of this program will be prepared for direct entry into the job market or continuation of graduate study towards an M.D. or Ph.D or other professional program.

A student can complete the bachelor's degree in biological sciences by substituting twelve 500- and 600-level graduate credits (that will apply towards the master's degree) for 12 hours of 400-level credits that were required at the undergraduate level. All BSC 400-level courses are co-listed as 500-level courses. In each area of emphasis, students may select 500-level electives in lieu of 400-level courses to satisfy the master's degree. Alternately, a student who chooses not to pursue an area of emphasis may chose 500- or 600-level courses to satisfy credits that will apply to the master's degree.

Eligibility Requirements for Accelerated Master's Degree Program

- completed at least 90 hours toward the bachelor's degree;
- at least a 3.30 overall undergraduate GPA;
- at least a 3.30 GPA in the major;
- minimum composite verbal and quantitative GRE test scores of 300;
- three strong letters of recommendation.

Biological Sciences, B.S.

- General Education Course

- Milestone course: a key success marker for your major. See your advisor to discuss the importance of this course in your plan of study.

Major

The Core Curriculum is designed to foster critical thinking skills and introduce students to basic domains of thinking that transcend disciplines. The Core applies to all majors. Information on specific classes in the Core can be found at https://www.marshall.edu/gened/.

Code	Title	Credit Hours
Core Curriculum		
Core 1: Critical Thinking		
FYS 100	First Yr Sem Critical Thinking	3
Critical Thinking Course (PSY 201 recommended for pre-professional)		3
Critical Thinking Course		3
Core 2		
ENG 101	Beginning Composition	3
ENG 201	Advanced Composition	3
CMM 103	Fund Speech-Communication	3
Select one of the following math requirements:		
MTH 140	Applied Calculus	
MTH 229	Calculus/Analytic Geom I (CT)	
BSC 120 & BSC 120L	Principles of Biology I and Principles of Biology I Lab	4
Core II Humanities		3
Core II Social Science		3
Core II Fine Arts		3
Additional University Requirements		
Writing Intensive		3
Writing Intensive		3
Multicultural or International		3
BSC 491	Capstone Experience (C) [1]	2
Major-Specific		
BSC 121 & BSC 121L	Principles of Biology II and Prin of Biology II Lab	3
CHM 211	Principles of Chemistry I	3
CHM 217	Principles of Chem Lab I	2
CHM 212	Principles Chemistry II	3
CHM 218	Principles of Chem Lab II	2
Select one of the following organic chemistry requirements:		
CHM 327	Intro Organic Chemistry	
CHM 355	Organic Chemistry I	
PHY 201	College Physics I	3
PHY 202	General Physics I Laboratory	1
Select four of the following 300-level BSC core courses:		9-12
BSC 302	Principles of Microbiology	
BSC 320	Principles of Ecology	
BSC 322	Principles Cell Biology	
BSC 324	Principles of Genetics	
BSC 332	Principles of Human Anatomy (and BSC 332L)	
BSC 334	Principles of Human Physiology (and BSC 334L)	
BSC 340	Principles of Evolution	
BSC Elective		4
BSC Elective		4
BSC Elective		4
BSC Elective		3
BSC Elective		3
BSC Elective (BSC 417 recommended)		3
Free Elective		3
Free Elective (PHY 203 and 204 recommended for pre-professional))		4

BSC Technical Electives: Select four 300- or 400-level BSC or closely related courses for technical electives. The courses must be approved by the department chair. CHM 356 and 361 strongly recommended.		12

[1] **Capstone Experience:** It is the responsibility of each student to consult his/her advisor regarding details of meeting the capstone requirement. The capstone may be a traditional independent study research project under the supervision of a faculty member selected by the student, participation in a classroom-based capstone course, or the development and implementation of an internship, co-op, or community-based project. Students must have completed a minimum of 16 hours of BSC coursework before they will be permitted to register for Capstone.

Major Information

- Students must pass BSC 120 Principles of Biology I and BSC 120L Principles of Biology I Lab and earn a grade of *C* or better in BSC 121 Principles of Biology II and BSC 121L Prin of Biology II Lab, CHM 211 Principles of Chemistry I and CHM 212 Principles Chemistry II before they can enroll in any upper-level BSC course except BSC 227 Human Anatomy , BSC 228 Human Physiology and BSC 250 Microbiol & Human Disease.
- BSC 104 Introduction to Biology, BSC 105 Human Biology , BSC 227 Human Anatomy , BSC 227L Human Anatomy Lab, BSC 228 Human Physiology and BSC 228L Human Physiology Lab, and BSC 250 Microbiol & Human Disease do not count towards a BSC major and cannot substitute for any required or elective BSC courses.
- A minimum of 15 hours of 400-level credit is required.
- Students are required to know and track their degree requirements for graduation or for entrance to a professional school.
- In addition to the Core General Education requirements, the College of Science requires 3-5 hours of Calculus, and 40 hours of upper-level credit.
- Students who choose CHM 355, 356, and 361 will have the necessary coursework for a Chemical Sciences minor. CHM coursework provides a Chemical Sciences minor.
- Coursework listed as "elective" may vary for each student. Students are encouraged to use elective hours toward a 2nd minor or toward prerequisites.
- Students are strongly encouraged to select courses that meet two or more core or college requirements. For example, a writing intensive literature course could satisfy the Core II Humanities requirement as well as the university writing intensive requirement.

Areas of Emphasis

- Cell, Molecular and Medical Biology, Emphasis (p. 580)
- Ecology, Evolution, and Organismal Biology, Emphasis (p. 582)

- General Education Course

- Milestone course: a key success marker for your major. See your advisor to discuss the importance of this course in your plan of study.

Four Year Plan

The Department of Biological Sciences is committed to teaching students about the science of life from molecular to global scales. A degree in Biological Sciences prepares students for careers and graduate study in diverse fields such as human and veterinary medicine, dentistry, biomedical and pharmaceutical research, environmental consulting, wildlife ecology, and K12 or higher education. Alumni of the Department work as health professionals, teach at all educational levels, serve as environmental researchers and regulators, conduct biomedical and pharmaceutical research, and hold positions in state and federal agencies.

Course	Title	Credit Hours
First Year		
First Semester		
BSC 120	Principles of Biology I	3
BSC 120L	Principles of Biology I Lab	1
MTH 140 or MTH 229	Applied Calculus or Calculus/Analytic Geom I (CT)	3-5
ENG 101	Beginning Composition	3
Core I Critical Thinking		3
UNI 100	Freshman First Class	1
	Credit Hours	**14-16**
Second Semester		
BSC 121	Principles of Biology II	3
BSC 121L	Prin of Biology II Lab	1
FYS 100	First Yr Sem Critical Thinking	3
Core II Fine Arts		3
CMM 103	Fund Speech-Communication	3
Free Elective (MTH 122 recommended for PHY prerequisite)		3
	Credit Hours	**16**
Second Year		
First Semester		
BSC Core Course		3-4
CHM 211	Principles of Chemistry I	3
CHM 217	Principles of Chem Lab I	2
ENG 201	Advanced Composition	3
Multicultural or International		3
	Credit Hours	**14-15**
Second Semester		
CHM 212	Principles Chemistry II	3
CHM 218	Principles of Chem Lab II	2
BSC Core Course		3-4
Core II Social Science (CT)		3
BSC Elective		4
	Credit Hours	**15-16**
Third Year		
First Semester		
CHM 327 or CHM 355	Intro Organic Chemistry or Organic Chemistry I	3
BSC Core Course		3-4
BSC Elective		4
BSC Elective (BSC 417 recommended)		3
	Credit Hours	**13-14**

Second Semester		
BSC Core Course		3-4
Technical Elective (CHM 356 recommended)		3
Technical Elective (CHM 361 recommended)		3
Core II Humanities		3
BSC Elective		4
	Credit Hours	**16-17**
Fourth Year		
First Semester		
BSC Elective		3
PHY 201	College Physics I	3
PHY 202	General Physics I Laboratory	1
Writing Intensive		3
BSC Elective		3
Technical Elective		3
	Credit Hours	**16**
Second Semester		
BSC 491	Capstone Experience (C)	2
Writing Intensive		3
BSC Elective		3
Free Elective (PHY 203 and PHY 204 recommended)		4
Technical Elective		3
	Credit Hours	**15**
	Total Credit Hours	**119-125**

Cell, Molecular and Medical Biology, Emphasis

- General Education Course

- Milestone course: a key success marker for your major. See your advisor to discuss the importance of this course in your plan of study.

Major

The Core Curriculum is designed to foster critical thinking skills and introduce students to basic domains of thinking that transcend disciplines. The Core applies to all majors. Information on specific classes in the Core can be found at https://www.marshall.edu/gened/.

Code	Title	Credit Hours
Core Curriculum		
Core 1: Critical Thinking		
FYS 100	First Yr Sem Critical Thinking	3
Critical Thinking Course		3
Critical Thinking Course		
Core 2		
ENG 101	Beginning Composition	3
ENG 201	Advanced Composition	3
CMM 103	Fund Speech-Communication	3
BSC 120	Principles of Biology I [1]	3
BSC 120L	Principles of Biology I Lab	1
Select one of the following math requirements:		
MTH 140	Applied Calculus	
MTH 229	Calculus/Analytic Geom I (CT)	
Core II Humanities		3
Core II Social Science		3
Core II Fine Arts		3
Additional University Requirements		
Writing Intensive		3
Writing Intensive		3
Multicultural or International		3
BSC 491	Capstone Experience [2]	2
Major-Specific		
BSC 121	Principles of Biology II [1]	3
BSC 121L	Prin of Biology II Lab	1
CHM 211	Principles of Chemistry I	3
CHM 217	Principles of Chem Lab I	2
CHM 212	Principles Chemistry II	3
CHM 218	Principles of Chem Lab II	2
PHY 201	College Physics I	3
PHY 202	General Physics I Laboratory	1
Area of Emphasis - Specific		
CHM 355	Organic Chemistry I	3
CHM 356	Organic Chemistry II	3
CHM 361	Intro Organic Chm Lab	3
PHY 203	College Physics II	3
PHY 204	General Physics 2 Laboratory	1
Select 4 of the following:		15-16
BSC 302	Principles of Microbiology	
BSC 322	Principles Cell Biology	
BSC 324	Principles of Genetics	
BSC 332	Principles of Human Anatomy (and BSC 332L)	
BSC 334	Principles of Human Physiology (and BSC 334L)	
BSC 301	Vertebrate Embryology	
Select 6 of the following:		
BSC 301	Vertebrate Embryology	
BSC 304	Microbiology Lab	
BSC 340	Principles of Evolution	
BSC 404	Cellular Physiology	
BSC 417	Biostatistics	
BSC 420	Plant Physiology	
BSC 422	Animal Physiology	
BSC 423	Comp Vertebrate Anatomy	4
BSC 424	Animal Parasitology	4
BSC 426	Medical Entomology	4
BSC 428	Neuroscience	3
BSC 438	Emerging Infectious Diseases	3
BSC 443	Microbial Genetics	3
BSC 448	Introductory Immunology	3
BSC 450	Molecular Biology	3
BSC 451	Molecular Medicine	3
BSC 454	Princ Adv Techn Mol Biol	3
BSC 456	Genes and Development	3

CHM 365	Introductory Biochemistry	3
BSC Technical electives: Select three 300- or 400-level BSC or closely related courses for technical electives. The courses must be approved by the department chair.		9
Free Elective		3

[1] BSC 104 Introduction to Biology and BSC 105 Human Biology will not substitute for BSC 120 Principles of Biology and BSC 121 Principles of Biology for a major in the Department of Biological Sciences.

[2] **Capstone Experience:** It is the responsibility of each student to consult his/her advisor regarding details of meeting the capstone requirement. The capstone may be a traditional independent study research project under the supervision of a faculty member selected by the student, participation in a classroom-based capstone course, or the development and implementation of an internship, co-op, or community-based project.

Major Information

- Students must pass BSC 120 Principles of Biology I and earn a grade of *C* or better in BSC 121 Principles of Biology II, CHM 211 Principles of Chemistry I, and CHM 212 Principles Chemistry II before they can enroll in any upper-level BSC course except BSC 227 Human Anatomy, BSC 228 Human Physiology and BSC 250 Microbiol & Human Disease.
- In addition to the Core General Education requirements, the College of Science requires 3 hours of Calculus, and 40 hours of upper level credit.
- The CHM coursework provides a Chemical Sciences minor.
- Coursework listed as "elective" may vary for each student. Students are encouraged to use elective hours toward a 2nd minor or toward prerequisites.
- Students are strongly encouraged to select courses that meet two or more Core or College requirements. For example, a writing intensive literature course could satisfy the Core II Humanities requirement as well as the University writing intensive requirement.
- Course offerings and course attributes are subject to change. Please consult each semesters schedule of courses for availability and attributes.
- MTH 140 Applied Calculus requires ACT Mathematics score of 24 or higher. Students with an ACT Mathematics score less than 24 will be placed in the appropriate prerequisite mathematics courses.
- All Biological Science majors are required to complete a minimum of 40 hours of credits in the Department of Biological Sciences.

- General Education Course

- Milestone course: a key success marker for your major. See your advisor to discuss the importance of this course in your plan of study.

Four Year Plan

The Department of Biological Sciences is committed to teaching students about the science of life from molecular to global scales. A degree in Biological Sciences prepares students for careers and graduate study in diverse fields such as human and veterinary medicine, dentistry, biomedical and pharmaceutical research, environmental consulting, wildlife ecology, and K12 or higher education. Students completing the Area of Emphasis in Cell, Molecular and Medical Biology will be prepared for a wide range of careers in fields including biotechnology, cell biology, medicine and/or medical research.

Course	Title	Credit Hours
First Year		
First Semester		
BSC 120	Principles of Biology I	3
BSC 120L	Principles of Biology I Lab	1
CHM 211	Principles of Chemistry I	3
CHM 217	Principles of Chem Lab I	2
MTH 140 or MTH 229	Applied Calculus or Calculus/Analytic Geom I (CT)	3-5
ENG 101	Beginning Composition	3
UNI 100	Freshman First Class	1
	Credit Hours	**16-18**
Second Semester		
BSC 121	Principles of Biology II	3
BSC 121L	Prin of Biology II Lab	1
CHM 212	Principles Chemistry II	3
CHM 218	Principles of Chem Lab II	2
Core II Fine Arts		3
FYS 100	First Yr Sem Critical Thinking	3
	Credit Hours	**15**
Second Year		
First Semester		
BSC Core Course		3-4
CHM 355	Organic Chemistry I	3
ENG 201	Advanced Composition	3
PSY 201 or SOC 200	Introductory Psychology (CT) (Core II Social Science) or Introductory Sociology (CT)	3
Free Elective (MTH 122 recommended for PHY prerequisite)		3
	Credit Hours	**15-16**
Second Semester		
BSC Core Course		3-4
CHM 356	Organic Chemistry II	3
CHM 361	Intro Organic Chm Lab	3
Area of Emphasis elective (BSC 417 recommended)		3
Core I Critical Thinking		3
	Credit Hours	**15-16**
Third Year		
First Semester		
BSC Core Course		3-4
PHY 201	College Physics I	3
PHY 202	General Physics I Laboratory	1
Area of Emphasis Elective		3
Area of Emphasis Elective (CHM 365 recommended)		3
CMM 103	Fund Speech-Communication	3
	Credit Hours	**16-17**

Second Semester		
BSC Core Course		3-4
PHY 203	College Physics II	3
PHY 204	General Physics 2 Laboratory	1
Core II Humanities		3
Area of Emphasis Elective		3
	Credit Hours	**13-14**
Fourth Year		
First Semester		
Area of Emphasis Elective		3
Area of Emphasis Elective		3
Writing Intensive		3
Technical Elective		3
Multicultural or International		3
	Credit Hours	**15**
Second Semester		
BSC 491	Capstone Experience	2
Writing Intensive		3
Area of Emphasis Elective		3
Technical Elective		3
Technical Elective		3
	Credit Hours	**14**
	Total Credit Hours	**119-125**

Ecology, Evolution, and Organismal Biology, Emphasis

- General Education Course

- Milestone course: a key success marker for your major. See your advisor to discuss the importance of this course in your plan of study.

Major

The Core Curriculum is designed to foster critical thinking skills and introduce students to basic domains of thinking that transcend disciplines. The Core applies to all majors. Information on specific classes in the Core can be found at https://www.marshall.edu/gened/.

Code	Title	Credit Hours
Core Curriculum		
Core 1: Critical Thinking		
FYS 100	First Yr Sem Critical Thinking	3
Critical Thinking Course		3
Critical Thinking Course		3
Core 2		
ENG 101	Beginning Composition	3
ENG 201	Advanced Composition	3
CMM 103	Fund Speech-Communication	3
Select one of the following math requirements:		3-5
MTH 140	Applied Calculus	
MTH 229	Calculus/Analytic Geom I (CT)	
BSC 120	Principles of Biology I [1]	3
BSC 120L	Principles of Biology I Lab	1
Core II Humanities		3
Core II Social Science		3
Core II Fine Arts		3
Additional University Requirements		
Writing Intensive		3
Writing Intensive		3
Multicultural or International		3
BSC 491	Capstone Experience [1]	2
Major-Specific		
BSC 121	Principles of Biology II [1]	3
BSC 121L	Prin of Biology II Lab	1
CHM 211	Principles of Chemistry I	3
CHM 217	Principles of Chem Lab I	2
CHM 212	Principles Chemistry II	3
CHM 218	Principles of Chem Lab II	2
Select one of the following organic chemistry requirements:		
CHM 327	Intro Organic Chemistry	
CHM 355	Organic Chemistry I	
PHY 201	College Physics I	3
PHY 202	General Physics I Laboratory	1
Area of Emphasis-Specific		
BSC 320	Principles of Ecology	4
BSC 340	Principles of Evolution	3
BSC 417	Biostatistics	3
BSC 324	Principles of Genetics	4
Select one of the following:		4-5
BSC 302	Principles of Microbiology (and BSC 304, Microbiology Lab)	
BSC 322	Principles Cell Biology	
BSC 332	Principles of Human Anatomy (and BSC 332L, Principles of Human Anatomy Lab)	
BSC 334	Principles of Human Physiology (and BSC 334L, Principles of Human Physiology Lab)	
Select a minimum of 18 credits from the following:		18
BSC 301	Vertebrate Embryology	
BSC 312	Invertebrate Zoology	
BSC 401	Ichthyology	
BSC 408	Ornithology	
BSC 409	Mammalogy	
BSC 410	Remote Sensing/GIS Appl	
BSC 411	Dgtl Image Proc/GIS Model	
BSC 416	Plant Taxonomy	
BSC 420	Plant Physiology	
BSC 421	Phycology	
BSC 422	Animal Physiology	
BSC 423	Comp Vertebrate Anatomy	
BSC 424	Animal Parasitology	
BSC 425	Systematics	
BSC 426	Medical Entomology	
BSC 430	Plant Ecology	

BSC 431	Limnology	
BSC 438	Emerging Infectious Diseases	
BSC 443	Microbial Genetics	
BSC 445	Microbial Ecology	
BSC 450	Molecular Biology	
BSC 460	Conservation Biology	
BSC 465	Biology of Reptiles	
BSC 466	Biology of Amphibians	
CHM 365	Introductory Biochemistry	
BSC Technical Electives: Select a minimum of 12 credits of 300 or 400-level BSC or closely related courses for technical electives. The courses must be approved by the department chair.		12
Free Elective		3
Free Elective		3

[1] **Capstone Experience:** It is the responsibility of each student to consult his/her advisor regarding details of meeting the capstone requirement. The capstone may be a traditional independent study research project under the supervision of a faculty member selected by the student, participation in a classroom-based capstone course, or the development and implementation of an internship, co-op, or community-based project. Students must have completed a minimum of 16 hours of BSC coursework before they will be permitted to register for Capstone.

Major Information

- Students must pass BSC 120 Principles of Biology I and BSC 120L Principles of Biology I Lab and earn a grade of *C* or better in BSC 121 Principles of Biology II and BSC 121L Prin of Biology II Lab , CHM 211 Principles of Chemistry I, and CHM 212 Principles Chemistry II before they can enroll in any upper-level BSC course except BSC 227 Human Anatomy, BSC 228 Human Physiology and BSC 250 Microbiol & Human Disease.
- BSC 104 Introduction to Biology, BSC 105 Human Biology, BSC 227 Human Anatomy and BSC 227L Human Anatomy Lab, BSC 228 Human Physiology and BSC 228L Human Physiology Lab, and BSC 250 Microbiol & Human Disease do not count towards a BSC major and cannot substitute for any required or elective BSC courses.
- A minimum of 15 hours of 400-level credit is required.
- Students are required to know and track their degree requirements for graduation or for entrance to a professional school.
- In addition to the Core General Education requirements, the College of Science requires 3-5 hours of Calculus, and 40 hours of upper-level credit.
- The CHM coursework provides a Chemical Sciences minor.
- Coursework listed as "elective" may vary for each student. Students are encouraged to use elective hours toward a 2nd minor or toward prerequisites.
- Students are strongly encouraged to select courses that meet two or more core or college requirements. For example, a writing intensive literature course could satisfy the Core II Humanities requirement as well as the university writing intensive requirement.
- Course offerings and course attributes are subject to change. Please consult each semester's schedule of courses for availability and attributes.
- MTH 140 Applied Calculus requires an ACT Mathematics score of 24 or higher. Students with an ACT Mathematics score of less than 24 will be placed in the appropriate prerequisite mathematics courses.
- All Biological Sciences majors are required to complete a minimum of 40 hours of credits in the Department of Biological Sciences.

- General Education Course

- Milestone course: a key success marker for your major. See your advisor to discuss the importance of this course in your plan of study.

Four Year Plan

The Department of Biological Sciences is committed to teaching students about the science of life from molecular to global scales. A degree in Biological Sciences prepares students for careers and graduate study in diverse fields such as human and veterinary medicine, dentistry, biomedical and pharmaceutical research, environmental consulting, wildlife ecology, and K12 or higher education. Students completing the Area of Emphasis in Ecology and Evolutionary Biology will be prepared for a wide range of careers including ecology, paleontology, environmental education, and may take positions with universities, museums, state or federal government agencies (USFS, USFWS, USGS, DNR, EPA); environmental consulting firms; conservation agencies; and non-governmental organizations.

Course	Title	Credit Hours
First Year		
First Semester		
BSC 120	Principles of Biology I	3
BSC 120L	Principles of Biology I Lab	1
MTH 140 or MTH 229	Applied Calculus or Calculus/Analytic Geom I (CT)	3-5
ENG 101	Beginning Composition	3
Core I Critical Thinking		3
UNI 100	Freshman First Class	1
	Credit Hours	**14-16**
Second Semester		
BSC 121	Principles of Biology II	3
BSC 121L	Prin of Biology II Lab	1
FYS 100	First Yr Sem Critical Thinking	3
Core II Fine Arts		3
CMM 103	Fund Speech-Communication	3
Free Elective (MTH 122 recommended for PHY prerequisite)		3
	Credit Hours	**16**
Second Year		
First Semester		
BSC 320	Principles of Ecology	4
CHM 211	Principles of Chemistry I	3
CHM 217	Principles of Chem Lab I	2
ENG 201	Advanced Composition	3
Core II Social Science (CT)		3
	Credit Hours	**15**

Second Semester		
CHM 212	Principles Chemistry II	3
CHM 218	Principles of Chem Lab II	2
BSC 417	Biostatistics	3
Core I Critical Thinking		3
BSC 324 or BSC 340	Principles of Genetics or Principles of Evolution	3-4
	Credit Hours	**14-15**
Third Year		
First Semester		
CHM 327 or CHM 355	Intro Organic Chemistry or Organic Chemistry I	3
BSC 324 or BSC 340	Principles of Genetics or Principles of Evolution	3-4
Free Elective		3
Area of Emphasis Elective		3
Area of Emphasis Elective		3
	Credit Hours	**15-16**
Second Semester		
Area of Emphasis Elective		4
Area of Emphasis Elective		4
Technical Elective		3
Core II Humanities		3
	Credit Hours	**14**
Fourth Year		
First Semester		
PHY 201	College Physics I	3
PHY 202	General Physics I Laboratory	1
Writing Intensive		3
Technical Elective		3
Technical Elective		3
Multicultural or International		3
	Credit Hours	**16**
Second Semester		
BSC 491	Capstone Experience (C)	2
Writing Intensive		3
Area of Emphasis Elective		3
BSC Core Course		4-5
Technical Elective		3
	Credit Hours	**15-16**
	Total Credit Hours	**119-124**

Biological Sciences, Minor

A student may qualify for a minor in Biological Sciences by successfully completing

Code	Title	Credit Hours
BSC 120	Principles of Biology I	3
BSC 120L	Principles of Biology I Lab	1
BSC 121	Principles of Biology II	3
BSC 121L	Prin of Biology II Lab	1
Select at least one of the following BSC core courses:		3-4
BSC 302	Principles of Microbiology	
BSC 320	Principles of Ecology	
BSC 322	Principles Cell Biology	
BSC 324	Principles of Genetics	
BSC 332	Principles of Human Anatomy (and BSC 332L)	
BSC 334	Principles of Human Physiology (and BSC 334L)	
BSC 340	Principles of Evolution	
Select a minimum of 3 additional hours at the 300-400 level		3
Select a minimum of 3 additional hours at the 400 level		3
Total Credit Hours		**17-18**

This is a minimum of 17 hours. In order to qualify, courses taken toward the minor in Biological Sciences must be completed with an average of 2.0 or higher.

Department of Chemistry

Contacts: Dr. Derrick Kolling, Chair
Website: http://www.marshall.edu/chemistry (http://www.marshall.edu/chemistry/)

chemistry@marshall.edu

Courses offered by the Department of Chemistry provide programs of study that allow the individual to:

1. Obtain high quality instruction in chemistry as a scientific discipline.
2. Obtain a sound background in preparation for advanced studies.
3. Meet the qualifications of professional chemists and accrediting agencies.
4. Prepare for a professional career in chemistry, medicine, dentistry, pharmacy, medical technology, engineering, nursing and other fields.

High school students planning to major in chemistry are advised to take one year of high school chemistry, one year of high school physics, and at least three years of high school mathematics (including geometry, algebra, and trigonometry).

The curriculum and facilities of the department have been approved by the Committee on Professional Training of the American Chemical Society.

Grade Point Average

A Grade Point Average of 2.0 in

1. all required Chemistry courses;
2. all Chemistry courses; and
3. all required Chemistry courses taken at Marshall will be required for all degrees.

Honors, Research, and Special Programs in Chemistry

The department offers a number of unique enrichment programs outside the above curricula that are open to students in either degree

program. All entering students in chemistry should contact either the department office or their advisor for full details.

Minors

The Department of Chemistry does not require a minor with any of its majors.

Double Majors

Double majors within the Department of Chemistry may include any majors other than the B.S., Major in Chemical Sciences. A double major of Forensic Chemistry with Biochemistry is also currently not permitted. Double majors that include majors outside the Department of Chemistry may include any Department of Chemistry majors. For example, the B.S. Major in Chemical Sciences could be used as a double major with any Biological Sciences major.

Programs

- Biochemistry, B.S. (p. 588)
- Chemical Sciences, B.S. (p. 590)
- Chemistry, B.S. ACS Certified (p. 592)
- Chemistry, Minor (p. 594)
- Environmental Chemistry, B.S. (p. 594)
- Forensic Chemistry, B.S. (p. 596)

Courses

- General Education Course

CHM 109 Chemistry in the Home **4 Credit hours**
An introduction to basic concepts of chemical science as it applies to materials commonly found within the household. Students will be expected to learn to evaluate potential hazards of such materials.
Pre-req: MTH 121 or MTH 121B or MTH 121H or MTH 125 or MTH 127 or MTH 130 or MTH 130H or MTH 131 or MTH 132 or MTH 140 or MTH 190 or MTH 203 or MTH 220 or STA 225 or MTH 225 or MTH 229 or MTH 229H.
Attributes: Core II Natural Sciences
Grade Mode: Normal Grading Mode

CHM 111 Foundations of Chemistry **3 Credit hours**
This course will introduce students to basic chemical facts and concepts. Topics will include units, dimensional analysis, nomenclature, solutions, atomic structure, and stoichiometry. This course will introduce students to basic chemical facts and concepts. Topics will include units, dimensional analysis, nomenclature, solutions, atomic structure, and stoichiometry.
Pre-req: MTH 127 with a minimum grade of C or ACT Math with a score of 21 or SAT Mathematics Before Mar. 16 with a score of 500 or SAT MATH SECTION SCORE with a score of 530 or MTH 130 with a minimum grade of C.
Attributes: Natural Sciences
Grade Mode: Normal Grading Mode

CHM 205 General, Organic, and Biochem **3 Credit hours**
Introductory course for health professions students and non-science majors covering basic chemical principles with applications in organic chemistry and biochemistry.
Grade Mode: Normal Grading Mode

CHM 211 Principles of Chemistry I **3 Credit hours**
A study of the properties of materials and their interactions with each other. Development of theories and applications of the principles of energetics, dynamics and structure. Intended primarily for science majors and preprofessional students. 3 lec.
Pre-req: (ACT Math with a score of 23 or SAT Mathematics Before Mar. 16 with a score of 540 or SAT MATH SECTION SCORE with a score of 570 or Placement Chemistry with a score of 211 or CHM 111 with a minimum grade of C) and CHM 217 (may be taken concurrently).
Concurrent PR: CHM 217
Attributes: Natural Sciences, Core II Natural Sciences
Grade Mode: Normal Grading Mode

CHM 212 Principles Chemistry II **3 Credit hours**
A continuation of chemistry 211 with emphasis on the inorganic chemistry of the representative elements and transition metals. 3 lec. A continuation of chemistry 211 with emphasis on the inorganic chemistry of the representative elements and transition metals. 3 lec.
Pre-req: (CHM 211 with a minimum grade of C and (CHM 218 (may be taken concurrently) with a minimum grade of D or CHM 218H (may be taken concurrently) with a minimum grade of D).
Concurrent PR: CHM 218 or CHM 218H
Attributes: Natural Sciences, Core II Natural Sciences
Grade Mode: Normal Grading Mode

CHM 217 Principles of Chem Lab I **2 Credit hours**
A laboratory course that demonstrates the application of concepts introduced in Chemistry 211.
Pre-req: CHM 211 (may be taken concurrently).
Concurrent PR: CHM 211
Attributes: Natural Sciences, Core II Natural Sciences
Grade Mode: Normal Grading Mode

CHM 218 Principles of Chem Lab II **2 Credit hours**
A laboratory course that demonstrates the application of concepts introduced in Chemistry 212.
Pre-req: CHM 212 (may be taken concurrently).
Concurrent PR: CHM 212
Attributes: Natural Sciences, Core II Natural Sciences
Grade Mode: Normal Grading Mode

CHM 218H Prin Chem Honor Lab II **2 Credit hours**
An advanced laboratory class designed for Principles of Chemistry II students. This lab will introduce students to concepts and/or techniques important to later laboratory classes and research. An advanced laboratory class designed for Principles of Chemistry II students. This lab will introduce students to concepts and/or techniques important to later laboratory classes and research.
Pre-req: Admitted Honors College with a score of 1.
Co-req: CHM 212
Attributes: Honors, Natural Sciences
Grade Mode: Normal Grading Mode

CHM 280 Special Topics **1-4 Credit hours**
Attributes: Natural Sciences
Grade Mode: Normal Grading Mode

CHM 281 Special Topics **1-4 Credit hours**
Attributes: Natural Sciences
Grade Mode: Normal Grading Mode

CHM 282 Special Topics **1-4 Credit hours**
Attributes: Natural Sciences
Grade Mode: Normal Grading Mode

CHM 283 Special Topics **1-4 Credit hours**
Attributes: Natural Sciences
Grade Mode: Normal Grading Mode

CHM 291H Honors in Chemistry **1-4 Credit hours**
Independent study or undergraduate research project for outstanding students. Independent study or undergraduate research project for outstanding students.
Attributes: Natural Sciences
Grade Mode: Normal Grading Mode

CHM 305 Research Methods Chem **1 Credit hour**
A course concerning the searching and use of the chemical literature, ethical issues relating to the conduct of scientific research, proposal writing, scientific presentations, and proper scientific laboaratory conduct.
Pre-req: CHM 356 with a minimum grade of C.
Attributes: Natural Sciences
Grade Mode: Normal Grading Mode

CHM 327 Intro Organic Chemistry **3 Credit hours**
A one semester introduction to organic chemistry emphasizing structure, nomenclature, and reactivity. (Cannot fulfill an upper division chemistry elective.)
Pre-req: CHM 212 with a minimum grade of C.
Attributes: Natural Sciences
Grade Mode: Normal Grading Mode

CHM 331 Chemistry Seminar **0 Credit hours**
Students attend lectures presented by internal and external speakers to learn about the nature and variety of chemical research. Students attend lectures presented by internal and external speakers to learn about the nature and variety of chemical research.
Attributes: Natural Sciences
Grade Mode: Credit/No Credit Grade Only

CHM 332 Chemistry Seminar **0 Credit hours**
Students attend lectures presented by internal and external speakers to learn about the nature and variety of chemical research. Students attend lectures presented by internal and external speakers to learn about the nature and variety of chemical research.
Attributes: No Textbook Required, Natural Sciences
Grade Mode: Credit/No Credit Grade Only

CHM 345 Intro to Analytical Chem **4 Credit hours**
An introduction to basic techniques of analytical chemistry and data analysis through statistical procedures. Traditional wet and contemporary instrumental methods are covered with an emphasis on experimental care and craftsmanship. An introduction to basic techniques of analytical chemistry and data analysis through statistical procedures. Traditional wet and contemporary instrumental methods are covered with an emphasis on experimental care and craftsmanship.
Pre-req: CHM 212 with a minimum grade of C and (CHM 218 with a minimum grade of C or CHM 218H with a minimum grade of C).
Attributes: Natural Sciences
Grade Mode: Normal Grading Mode

CHM 355 Organic Chemistry I **3 Credit hours**
A systematic study of organic chemistry including modern structural theory, spectroscopy, and stereochemistry; application of these topics to the study of reactions and their mechanisms and applications to synthesis. 3 lec. No individual may make more than 3 attempts at CHM 355 (i.e., any combination of three W, D, F or NC grades will preclude the individual from future registration).
Pre-req: CHM 212 with a minimum grade of C.
Attributes: Natural Sciences
Grade Mode: Normal Grading Mode

CHM 356 Organic Chemistry II **3 Credit hours**
Continuation of Chemistry 355. 3 lec. Continuation of Chemistry 355. 3 lec.
Pre-req: CHM 355 with a minimum grade of C.
Attributes: Natural Sciences
Grade Mode: Normal Grading Mode

CHM 357 Physical Chemistry: Quantum **4 Credit hours**
A study of quantum mechanics applied to atomic structure, chemical bonding, and spectroscopy. 3 lec.-2 lab.
Pre-req: CHM 212 with a minimum grade of C and (MTH 229 with a minimum grade of C or MTH 229H with a minimum grade of C) and (PHY 211 with a minimum grade of C or PHY 201 with a minimum grade of C).
Attributes: Natural Sciences
Grade Mode: Normal Grading Mode

CHM 358 Physical Chemistry: Thermo. **4 Credit hours**
A study of chemical thermodynamics, equilibrium, and kinetics. 3 lec.-2 lab.
Pre-req: CHM 212 with a minimum grade of C and (MTH 229 with a minimum grade of C or MTH 229H with a minimum grade of C) and (PHY 211 with a minimum grade of C or PHY 201 with a minimum grade of C).
Attributes: Natural Sciences
Grade Mode: Normal Grading Mode

CHM 361 Intro Organic Chm Lab **3 Credit hours**
An introduction to of experimental organic chemistry with emphasis on fundamental techniques and their application to the preparation and identification of organic compounds. 6 lab. An introduction to of experimental organic chemistry with emphasis on fundamental techniques and their application to the preparation and identification of organic compounds. 6 lab.
Pre-req: CHM 356 (may be taken concurrently).
Concurrent PR: CHM 356
Attributes: Natural Sciences
Grade Mode: Normal Grading Mode

CHM 361H Intro Honors Organic Chem Lab **3 Credit hours**
This laboratory will introduce students to advanced concepts and techniques in organic synthesis and spectroscopy. It requires students to engage in an independent synthetic project from the chemical literature.
Pre-req: CHM 356 (may be taken concurrently) and Admitted Honors College with a score of 1.
Concurrent PR: CHM 356
Attributes: Honors
Grade Mode: Normal Grading Mode

CHM 365 Introductory Biochemistry **3 Credit hours**
A survey course including introduction to basic biochemical concepts, metabolic pathways, and bioenergetics. 3 lec. A survey course including introduction to basic biochemical concepts, metabolic pathways, and bioenergetics. 3 lec.
Pre-req: CHM 327 with a minimum grade of C or CHM 356 with a minimum grade of C.
Attributes: Natural Sciences
Grade Mode: Normal Grading Mode

CHM 366 Intro Biochemistry Lab **2 Credit hours**
Introduction to basic biochemical laboratory techniques including chromatography, electrophoresis, and enzyme kinetics; methods for identification and characterization of biochemical systems. 4 lab.
Pre-req: CHM 365 with a minimum grade of C.
Attributes: Natural Sciences
Grade Mode: Normal Grading Mode

CHM 390H Honors in Chemistry **1-4 Credit hours**
Independent study or undergraduate research project for outstanding students. Independent study or undergraduate research project for outstanding students.
Pre-req: Admitted Honors College with a score of 1.
Attributes: Honors, Natural Sciences
Grade Mode: Normal Grading Mode

CHM 391H Honors in Chemistry **1-4 Credit hours**
Independent study or undergraduate research project for outstanding students. Independent study or undergraduate research project for outstanding students.
Attributes: Natural Sciences
Grade Mode: Normal Grading Mode

CHM 401 Research for Undergrad **1-4 Credit hours**
Students engage in research project in collaboration with a faculty member. Students engage in research project in collaboration with a faculty member.
Attributes: Natural Sciences
Grade Mode: Normal Grading Mode

CHM 411 Modern Instrument Methods **4 Credit hours**
This course investigates the theory and functional aspects of modern analytical instrumentation. Emphasis is placed on the components of instruments and the applicability of various techniques to specific analytical problems. This course investigates the theory and functional aspects of modern analytical instrumentation. Emphasis is placed on the components of instruments and the applicability of various techniques to specific analytical problems.
Pre-req: CHM 356 with a minimum grade of C.
Attributes: Natural Sciences
Grade Mode: Normal Grading Mode

CHM 423 Environ Analytical Chemistry **4 Credit hours**
Sampling and modern instrumental analysis of water, air and sediments according to EPA methodology. May be used to fulfill the American Chemical Society Environmental Chemistry certification. (PR: C or better in CHM 345). Sampling and modern instrumental analysis of water, air and sediments according to EPA methodology. May be used to fulfill the American Chemical Society Environmental Chemistry certification. (PR: C or better in CHM 345).
Pre-req: CHM 345 with a minimum grade of C and CHM 307 or CHM 358.
Attributes: Natural Sciences
Grade Mode: Normal Grading Mode

CHM 428 Intro Forensic Methods **3 Credit hours**
Introduction to crime scene investigation, physical evidence collection, serology and DNA technologies (PCR, RFLP). Discussion of statistical analysis of DNA and managing a DNA database, using CODIS as an example.
Pre-req: CHM 365 and (BSC 322 or BSC 324).
Attributes: Natural Sciences
Grade Mode: Normal Grading Mode

CHM 431 Chemistry Seminar **0 Credit hours**
Students attend lectures presented by internal and external speakers to learn about the nature and variety of chemical research. Students attend lectures presented by internal and external speakers to learn about the nature and variety of chemical research.
Attributes: Natural Sciences
Grade Mode: Credit/No Credit Grade Only

CHM 432 Chemistry Seminar **0 Credit hours**
Students attend lectures presented by internal and external speakers to learn about the nature and variety of chemical research. Students also present an oral and written presentation of their capstone experience. Students attend lectures presented by internal and external speakers to learn about the nature and variety of chemical research. Students also present an oral and written presentation of their capstone experience.
Pre-req: CHM 490 or CHM 491.
Attributes: Natural Sciences
Grade Mode: Credit/No Credit Grade Only

CHM 443 Protein Biotechnology **3 Credit hours**
Discussion covers basics of protein structure and function, post-translational modification and transport simple immunology. Laboratories include protein quantitation, enzyme kinetics, protein purification and dialysis protein gel electrophoresis and staining.
Pre-req: BSC 120 with a minimum grade of D.
Grade Mode: Normal Grading Mode

CHM 448 Adv Inorganic Chemistry I **4 Credit hours**
Study of physical properties and periodic relationships of inorganic materials. 3 lec, 2 lab.
Pre-req: CHM 356 with a minimum grade of C and (CHM 357 with a minimum grade of C or CHM 358 with a minimum grade of C).
Attributes: Natural Sciences
Grade Mode: Normal Grading Mode

CHM 451 Biological Mass Spectrometry **4 Credit hours**
This course investigates the theory and applications of mass spectrometry. It includes a laboratory component in which you will learn to run the mass spectrometers and interpret mass spectral results.
Pre-req: CHM 356 with a minimum grade of C.
Grade Mode: Normal Grading Mode

CHM 465 Adv Organic Chemistry I **3 Credit hours**
Studies of the dynamics of organic reactions with emphasis on mechanisms and stereochemistry. 3 lec.
Pre-req: CHM 356 with a minimum grade of C.
Attributes: Natural Sciences
Grade Mode: Normal Grading Mode

CHM 466 Adv Organic Chemistry II **3 Credit hours**
A continuation of Chemistry 465 with emphasis on synthetic methods. 3 lec. A continuation of Chemistry 465 with emphasis on synthetic methods. 3 lec.
Pre-req: CHM 356 with a minimum grade of C.
Attributes: Natural Sciences
Grade Mode: Normal Grading Mode

CHM 467 Intermediate Biochemistry **3 Credit hours**
An intermediate level discussion of the biochemistry of mammalian cells.
Pre-req: CHM 365 with a minimum grade of C or BSC 365 with a minimum grade of C.
Attributes: Natural Sciences
Grade Mode: Normal Grading Mode

CHM 478 Appl Microscopy in Research **4 Credit hours**
A combined lecture/lab/self-motivated research course that results in a microscopy based project to be presented by each student in a public forum (may augment capstone). A combined lecture/lab/self-motivated research course that results in a microscopy based project to be presented by each student in a public forum (may augment capstone).
Grade Mode: Normal Grading Mode

CHM 480 Special Topics **1-4 Credit hours**
Attributes: Natural Sciences
Grade Mode: Normal Grading Mode

CHM 481 Special Topics **1-4 Credit hours**
Attributes: Natural Sciences
Grade Mode: Normal Grading Mode

CHM 482 Special Topics **1-4 Credit hours**
Attributes: Natural Sciences
Grade Mode: Normal Grading Mode

CHM 483 Special Topics **1-4 Credit hours**
Attributes: Natural Sciences
Grade Mode: Normal Grading Mode

CHM 485 Independent Study **1-4 Credit hours**
Attributes: Natural Sciences
Grade Mode: Normal Grading Mode

CHM 486 Independent Study **1-4 Credit hours**
Attributes: Natural Sciences
Grade Mode: Normal Grading Mode

CHM 490 Internship **1-6 Credit hours**
Students engage in supervised chemical laboratory work in a professional setting. Students engage in supervised chemical laboratory work in a professional setting.
Pre-req: CHM 305.
Attributes: Capstone Course, Natural Sciences
Grade Mode: Normal Grading Mode

CHM 491 Capstone Experience **2-4 Credit hours**
Students engage in a collaborative research project with a faculty member. Students engage in a collaborative research project with a faculty member.
Pre-req: CHM 305.
Attributes: Capstone Course, Natural Sciences
Grade Mode: Normal Grading Mode

CHM 495H Honors in Chemistry **3-4 Credit hours**
Open only to chemistry majors of outstanding ability. Open only to chemistry majors of outstanding ability.
Attributes: Natural Sciences
Grade Mode: Normal Grading Mode

Faculty

Professors
Castellani, Day, Frost, Kolling, McCunn, Norton, Wang

Associate Professors
Morgan, Price, Quiñones

Assistant Professors
Markiewicz, Hostetler

Biochemistry, B.S.

- General Education Course

- Milestone course: a key success marker for your major. See your advisor to discuss the importance of this course in your plan of study.

Major

The Core Curriculum is designed to foster critical thinking skills and introduce students to basic domains of thinking that transcend disciplines. The Core applies to all majors. Information on specific classes in the Core can be found at https://www.marshall.edu/gened/.

Code	Title	Credit Hours
Core Curriculum		
Core 1: Critical Thinking		
FYS 100	First Yr Sem Critical Thinking	3
MTH 229	Calculus/Analytic Geom I (CT)	5
Critical Thinking Course		3
Core 2		
ENG 101	Beginning Composition	3
ENG 201	Advanced Composition	3
CMM 103	Fund Speech-Communication	3
MTH 229	Calculus/Analytic Geom I (CT)	5
BSC 120	Principles of Biology I	3
BSC 120L	Principles of Biology I Lab	1
Core II Humanities		3
Core II Social Science		3
Core II Fine Arts		3
Additional University Requirements		
Writing Intensive (CHM 357 or CHM 358)		3
Writing Intensive		3
Multicultural or International		3
CHM 491	Capstone Experience	2
or CHM 490	Internship	
Major-Specific		
CHM 211	Principles of Chemistry I	3
CHM 217	Principles of Chem Lab I	2
CHM 212	Principles Chemistry II	3

CHM 218	Principles of Chem Lab II	2
CHM 355	Organic Chemistry I	3
CHM 356	Organic Chemistry II	3
CHM 361	Intro Organic Chm Lab	3
CHM 305	Research Methods Chem (WI)	1
Select one of the following:		4
CHM 358	Physical Chemistry: Thermo. (WI) [1]	
CHM 357	Physical Chemistry: Quantum (WI)	
CHM 365	Introductory Biochemistry	3
CHM 366	Intro Biochemistry Lab	2
CHM 467	Intermediate Biochemistry	3
CHM 491	Capstone Experience (C)	2
or CHM 490	Internship	
CHM 432	Chemistry Seminar	0
BSC 121	Principles of Biology II	3
BSC 121L	Prin of Biology II Lab	1
BSC 322	Principles Cell Biology	4
BSC 324	Principles of Genetics	4
PHY 201	College Physics I	3
PHY 202	General Physics I Laboratory	1
PHY 203	College Physics II	3
PHY 204	General Physics 2 Laboratory	1
Biochemistry Electives		
Select from the following courses. At least one course must be a CHM course.		4 10-12 credit hours, and at least one must
BSC 302	Principles of Microbiology	
BSC 332	Principles of Human Anatomy (and 332L)	
BSC 334	Principles of Human Physiology (and BSC 334L)	
BSC 422	Animal Physiology	
BSC 428	Neuroscience	
BSC 443	Microbial Genetics	
BSC 448	Introductory Immunology	
BSC 450	Molecular Biology	
BSC 456	Genes and Development	
CHM 345	Intro to Analytical Chem	
CHM 357	Physical Chemistry: Quantum	
CHM 358	Physical Chemistry: Thermo.	
CHM 411	Modern Instrument Methods	
CHM 448	Adv Inorganic Chemistry I	
CHM 451	Biological Mass Spectrometry	
CHM 465	Adv Organic Chemistry I	
CHM 466	Adv Organic Chemistry II	
Free Elective		3
Free Elective		3
Free Elective		3
Free Elective		2

[1] CHM 358 Physical Chemistry: Thermo. or CHM 411 Modern Instrument Methods is recommended for students considering graduate school.

Major Information

- Students are required to know and track their degree requirements for graduation or for entrance to a professional school.
- In addition to the Core General Education requirements, the College of Science requires 3 hours of Calculus, and 40 hours of upper level credit.
- Coursework listed as "elective" may vary for each student. Students are encouraged to use elective hours toward a 2nd minor or toward prerequisites.
- Students are strongly encouraged to select courses that meet two or more Core or College requirements. For example, a writing intensive literature course could satisfy the Core II Humanities requirement as well as the University writing intensive requirement.
- Course offerings and course attributes are subject to change each semester. Please consult each semesters schedule of courses for availability and attributes.
- Math is based on an ACT Mathematics score of 27 or higher. Students with an ACT Mathematics score less than 27 will be placed in the appropriate prerequisite mathematics and science courses.
- The BSC coursework provides a Biological Sciences minor.
- A Grade Point Average of 2.0 is required
  a. overall,
  b. at MU,
  c. in all required Chemistry courses,
  d. in all Chemistry courses, and
  e. in all required Chemistry courses taken at MU.

- General Education Course

- Milestone course: a key success marker for your major. See your advisor to discuss the importance of this course in your plan of study.

Four Year Plan

Students completing the Biochemistry major will be prepared for career opportunities in the biotechnology, forensics, environmental, pharmaceutical, agricultural, and medical fields. Students will also be well prepared for graduate-level study in biochemistry, biotechnology, and genetics and molecular biology. Additionally, Biochemistry is an excellent choice for students desiring to attend professional training in Medicine, Dentistry, Pharmacy, Law or Engineering.

Course	Title	Credit Hours
First Year		
First Semester		
CHM 211	Principles of Chemistry I	3
CHM 217	Principles of Chem Lab I	2
BSC 120	Principles of Biology I	3
BSC 120L	Principles of Biology I Lab	1
ENG 101	Beginning Composition	3
FYS 100	First Yr Sem Critical Thinking	3
UNI 100	Freshman First Class	1
	Credit Hours	**16**
Second Semester		
BSC 121	Principles of Biology II	3

BSC 121L	Prin of Biology II Lab	1
CHM 212	Principles Chemistry II	3
CHM 218	Principles of Chem Lab II	2
MTH 229	Calculus/Analytic Geom I (CT)	5
	Credit Hours	**14**

Second Year

First Semester

Core I Critical Thinking		3
CHM 355	Organic Chemistry I	3
ENG 201	Advanced Composition	3
BSC 324	Principles of Genetics	4
Free Elective		2
	Credit Hours	**15**

Second Semester

CHM 356	Organic Chemistry II	3
CHM 361	Intro Organic Chm Lab	3
CMM 103	Fund Speech-Communication	3
PHY 201	College Physics I	3
PHY 202	General Physics I Laboratory	1
Core II Fine Arts		3
	Credit Hours	**16**

Third Year

First Semester

BSC 322	Principles Cell Biology	4
CHM 305	Research Methods Chem	1
CHM 365	Introductory Biochemistry	3
PHY 203	College Physics II	3
PHY 204	General Physics 2 Laboratory	1
Core II Social Science (MC/I)		3
	Credit Hours	**15**

Second Semester

CHM 366	Intro Biochemistry Lab	2
CHM 467	Intermediate Biochemistry	3
Core II Humanities		3
Biochemistry Elective		4
Free Elective		3
	Credit Hours	**15**

Fourth Year

First Semester

CHM 491 or CHM 490	Capstone Experience or Internship	2
Writing Intensive		3
Biochemistry Elective (CHM Course)		4
Free Elective		3
Free Elective		3
	Credit Hours	**15**

Second Semester

CHM 432	Chemistry Seminar	0
Biochemistry Elective		3
Select one of the following:		3
CHM 357	Physical Chemistry: Quantum (WI)	
CHM 358	Physical Chemistry: Thermo. (WI)	
Free Elective		3
Free Elective		3
Free Elective		2
	Credit Hours	**14**
	Total Credit Hours	**120**

Chemical Sciences, B.S.

- General Education Course

- Milestone course: a key success marker for your major. See your advisor to discuss the importance of this course in your plan of study.

Major

The Core Curriculum is designed to foster critical thinking skills and introduce students to basic domains of thinking that transcend disciplines. The Core applies to all majors. Information on specific classes in the Core can be found at https://www.marshall.edu/gened/.

Code	Title	Credit Hours
Core Curriculum		
Core 1: Critical Thinking		
FYS 100	First Yr Sem Critical Thinking	3
MTH 229	Calculus/Analytic Geom I (CT)	5
Critical Thinking Course		3
Core 2		
ENG 101	Beginning Composition	3
ENG 201	Advanced Composition	3
CMM 103	Fund Speech-Communication	3
MTH 229	Calculus/Analytic Geom I (CT)	5
CHM 211 & CHM 217	Principles of Chemistry I and Principles of Chem Lab I	5
Core II Humanities		3
Core II Social Science		3
Core II Fine Arts		3
Additional University Requirements		
Writing Intensive (CHM 357 or 358)		3
Writing Intensive		3
Multicultural or International		3
CHM 491 or CHM 490	Capstone Experience Internship	2
Major-Specific		
CHM 211	Principles of Chemistry I	3
CHM 217	Principles of Chem Lab I	2
CHM 212	Principles Chemistry II	3
CHM 218	Principles of Chem Lab II	2
CHM 355	Organic Chemistry I	3
CHM 356	Organic Chemistry II	3
CHM 361	Intro Organic Chm Lab	3
CHM 305	Research Methods Chem	1
Select one of the following:		

CHM 357	Physical Chemistry: Quantum (WI)	
CHM 358	Physical Chemistry: Thermo. (WI)	
CHM 345	Intro to Analytical Chem	4
CHM 448	Adv Inorganic Chemistry I	4
CHM 491	Capstone Experience (C)	2
or CHM 490	Internship	
CHM 432	Chemistry Seminar	0
300/400 CHM Elective		3
PHY 201	College Physics I	3
PHY 202	General Physics I Laboratory	1
PHY 203	College Physics II	3
PHY 204	General Physics 2 Laboratory	1
Electives		
Science or Math Elective		4
Science or Math Elective		4
Science or Math Elective		4
Science or Math Elective		4
Free Elective		3
Free Elective		3
Free Elective		3
Free Elective		3
Free Elective		3
Free Elective		3
Free Elective		3
Free Elective		1
Students interested in careers in technical sales, management, and marketing in the chemical industry are encouraged to take the following courses as electives:		
ECN 250	Principles Microeconomics	
ECN 253	Principles Macroeconomics	
MKT 340	MKT Concepts and Applications	
MKT 440	Sales Management	
MKT 442	Market Research	
MGT 320	Principles of Management	

Major Information

- Students are required to know and track their degree requirements for graduation or for entrance to a professional school.
- In addition to the Core General Education requirements, the College of Science requires 3 hours of Calculus, and 40 hours of upper level credit.
- Coursework listed as "elective" may vary for each student. Students are encouraged to use elective hours toward a minor or toward prerequisites.
- Students are strongly encouraged to select courses that meet two or more Core or College requirements. For example, a writing intensive literature course could satisfy the Core II Humanities requirement as well as the University writing intensive requirement.
- Course offerings and course attributes are subject to change semesters. Please consult each semester's schedule of courses for availability and attributes.
- Math is based on an ACT Mathematics score of 27 or higher. Students with an ACT Mathematics score less than 27 will be placed in the appropriate prerequisite mathematics and science courses.
- A Grade Point Average of 2.0 is required
  a. overall,
  b. at MU,
  c. in all required Chemistry courses,
  d. in all Chemistry courses, and
  e. in all required Chemistry courses taken at MU.

- General Education Course

- Milestone course: a key success marker for your major. See your advisor to discuss the importance of this course in your plan of study.

Four Year Plan

This major in chemistry is intended for students needing a broadly based, flexible science background. Degrees offered by the Department of Chemistry provide a program of studies that allows the individual to: obtain high quality instruction in chemistry as a scientific discipline, obtain a sound background in preparation for advanced studies, meet the qualifications of professional chemists and accrediting agencies, or prepare for a professional career in medicine, dentistry, pharmacy, medical technology, engineering, nursing and other fields.

Course	Title	Credit Hours
First Year		
First Semester		
CHM 211	Principles of Chemistry I	3
CHM 217	Principles of Chem Lab I	2
MTH 229	Calculus/Analytic Geom I (CT)	5
FYS 100	First Yr Sem Critical Thinking	3
Free Elective		1
UNI 100	Freshman First Class	1
	Credit Hours	**15**
Second Semester		
ENG 101	Beginning Composition	3
CHM 212	Principles Chemistry II	3
CHM 218	Principles of Chem Lab II	2
Core I Critical Thinking		3
Science or Math Elective		4
	Credit Hours	**15**
Second Year		
First Semester		
CHM 355	Organic Chemistry I	3
PHY 201	College Physics I	3
PHY 202	General Physics I Laboratory	1
Core II Social Science		3
ENG 201	Advanced Composition	3
Free Elective		2
	Credit Hours	**15**
Second Semester		
CHM 356	Organic Chemistry II	3

CHM 361	Intro Organic Chm Lab	3
PHY 203	College Physics II	3
PHY 204	General Physics 2 Laboratory	1
CMM 103	Fund Speech-Communication	3
Core II Fine Arts		3
	Credit Hours	**16**

Third Year

First Semester

300/400 CHM Elective		3
CHM 305	Research Methods Chem	1
Core II Humanities		3
Writing Intensive		3
Free Elective		3
Free Elective		3
	Credit Hours	**16**

Second Semester

Select one of the following:		4
CHM 358	Physical Chemistry: Thermo. (WI)	
CHM 357	Physical Chemistry: Quantum (WI)	
Science or Math Elective		4
Free Elective		3
Free Elective		1
	Credit Hours	**12**

Fourth Year

First Semester

CHM 345	Intro to Analytical Chem	4
CHM 491 or CHM 490	Capstone Experience or Internship	2
CHM 448	Adv Inorganic Chemistry I	4
Writing Intensive		3
Free Elective		3
	Credit Hours	**16**

Second Semester

CHM 432	Chemistry Seminar	0
Science or Math Elective		4
Multicultural or International		3
Free Elective		3
Free Elective		3
Free Elective		1
	Credit Hours	**14**
	Total Credit Hours	**119**

Chemistry, B.S. ACS Certified

- General Education Course

- Milestone course: a key success marker for your major. See your advisor to discuss the importance of this course in your plan of study.

Major

The Core Curriculum is designed to foster critical thinking skills and introduce students to basic domains of thinking that transcend disciplines. The Core applies to all majors. Information on specific classes in the Core can be found at https://www.marshall.edu/gened/.

Code	Title	Credit Hours
Core Curriculum		
Core 1: Critical Thinking		
FYS 100	First Yr Sem Critical Thinking	3
MTH 229	Calculus/Analytic Geom I (CT)	5
Critical Thinking Course		3
Core 2		
ENG 101	Beginning Composition	3
ENG 201	Advanced Composition	3
CMM 103	Fund Speech-Communication	3
MTH 229	Calculus/Analytic Geom I (CT)	5
CHM 211 & CHM 217	Principles of Chemistry I and Principles of Chem Lab I	5
Core II Humanities		3
Core II Social Science		3
Core II Fine Arts		3
Additional University Requirements		
Writing Intensive (CHM 357)		3
Writing Intensive (CHM 358		3
Multicultural or International		3
CHM 491	Capstone Experience	2-4
Major-Specific		
CHM 211	Principles of Chemistry I	3
CHM 217	Principles of Chem Lab I	2
CHM 212	Principles Chemistry II	3
CHM 218	Principles of Chem Lab II	2
CHM 355	Organic Chemistry I	3
CHM 356	Organic Chemistry II	3
CHM 361	Intro Organic Chm Lab	3
CHM 305	Research Methods Chem	1
CHM 357	Physical Chemistry: Quantum (WI)	4
CHM 358	Physical Chemistry: Thermo. (WI)	4
CHM 365	Introductory Biochemistry	3
CHM 411	Modern Instrument Methods	4
CHM 448	Adv Inorganic Chemistry I	4
Six total hours of CHM 491 must be completed		
CHM 491	Capstone Experience	
PHY 211	University Physics I	4
PHY 202	General Physics I Laboratory	1
PHY 213	University Physics II	4
PHY 204	General Physics 2 Laboratory	1
CHM 331	Chemistry Seminar	0
CHM 332	Chemistry Seminar	0
CHM 431	Chemistry Seminar	0
CHM 432	Chemistry Seminar	0

MTH 230	Calculus/Analytic Geom II	4
MTH 231	Calculus/Analytic Geom III	4
Electives		
Free Elective		3
Free Elective		3
Free Elective		3
Free Elective		3
Free Elective		3
Free Elective		3
Free Elective		3
Free Elective		3

Students interested in careers in technical sales, management, and marketing in the chemical industry are encouraged to take the following courses as electives:

ECN 250	Principles Microeconomics
ECN 253	Principles Macroeconomics
MKT 340	MKT Concepts and Applications
MKT 440	Sales Management
MKT 442	Market Research
MGT 320	Principles of Management

Major Information

- Students are required to know and track their degree requirements for graduation or for entrance to a professional school.
- In addition to the Core General Education requirements, the College of Science requires 3 hours of Calculus, and 40 hours of upper level credit.
- Coursework listed as "elective" may vary for each student. Students are encouraged to use elective hours toward a minor or toward prerequisites.
- Students are strongly encouraged to select courses that meet two or more Core or College requirements. For example, a writing intensive literature course could satisfy the Core II Humanities requirement as well as the University writing intensive requirement.
- Course offerings and course attributes are subject to change semesters. Please consult each semesters schedule of courses for availability and attributes.
- Math is based on an ACT Mathematics score of 27 or higher. Students with an ACT Mathematics score less than 27 will be placed in the appropriate mathematics and science courses.
- A Grade Point Average of 2.0 is required
  a. overall,
  b. at MU,
  c. in all required Chemistry courses,
  d. in all Chemistry courses, and
  e. in all required Chemistry courses taken at MU.

- General Education Course

- Milestone course: a key success marker for your major. See your advisor to discuss the importance of this course in your plan of study.

Four Year Plan

This curriculum meets the standards of the American Chemical Society and is recommended for students intending to enter the chemical profession or intending to pursue graduate work in chemistry. Students who successfully complete the requirements for the B.S. in Chemistry degree will receive a certificate from the American Chemical Society indicating that their degree meets the standards of the Committee on Professional Training.

Course	Title	Credit Hours
First Year		
First Semester		
CHM 211	Principles of Chemistry I	3
CHM 217	Principles of Chem Lab I	2
MTH 229	Calculus/Analytic Geom I (CT)	5
ENG 101	Beginning Composition	3
FYS 100	First Yr Sem Critical Thinking	3
UNI 100	Freshman First Class	1
	Credit Hours	**17**
Second Semester		
ENG 201	Advanced Composition	3
CHM 212	Principles Chemistry II	3
CHM 218	Principles of Chem Lab II	2
Core I Critical Thinking		3
MTH 230	Calculus/Analytic Geom II	4
	Credit Hours	**15**
Second Year		
First Semester		
CHM 355	Organic Chemistry I	3
PHY 211	University Physics I	4
PHY 202	General Physics I Laboratory	1
Core II Social Science		3
MTH 231	Calculus/Analytic Geom III	4
	Credit Hours	**15**
Second Semester		
CHM 356	Organic Chemistry II	3
CHM 361	Intro Organic Chm Lab	3
PHY 213	University Physics II	4
PHY 204	General Physics 2 Laboratory	1
CMM 103	Fund Speech-Communication	3
Free Elective		3
	Credit Hours	**17**
Third Year		
First Semester		
CHM 357	Physical Chemistry: Quantum (WI)	4
CHM 305	Research Methods Chem	1
Core II Fine Arts		3
CHM 365	Introductory Biochemistry	3
CHM 331	Chemistry Seminar	0
Free Elective		3
	Credit Hours	**14**
Second Semester		
CHM 358	Physical Chemistry: Thermo. (WI)	4
CHM 332	Chemistry Seminar	0

CHM 491	Capstone Experience (C)	2
Core II Humanities		3
Multicultural or International		3
Free Elective		3
	Credit Hours	**15**
Fourth Year		
First Semester		
CHM 431	Chemistry Seminar	0
CHM 491	Capstone Experience	4
CHM 448	Adv Inorganic Chemistry I	4
Free Elective		3
Free Elective		3
	Credit Hours	**14**
Second Semester		
CHM 432	Chemistry Seminar	0
CHM 411	Modern Instrument Methods	4
Free Elective		3
Free Elective		3
Free Elective		3
	Credit Hours	**13**
	Total Credit Hours	**120**

Chemistry, Minor

The Department of Chemistry awards a minor in chemistry to students who have completed the following courses with a minimum *C* average:

Code	Title	Credit Hours
CHM 211	Principles of Chemistry I	3
CHM 212	Principles Chemistry II	3
CHM 217	Principles of Chem Lab I	2
CHM 218	Principles of Chem Lab II	2
Select two of the following:		6-8
CHM 345	Intro to Analytical Chem	
CHM 355	Organic Chemistry I	
CHM 356	Organic Chemistry II	
CHM 357	Physical Chemistry: Quantum (WI)	
CHM 358	Physical Chemistry: Thermo. (WI)	
CHM 448	Adv Inorganic Chemistry I	
Total Credit Hours		**16-18**

Environmental Chemistry, B.S.

- General Education Course

- Milestone course: a key success marker for your major. See your advisor to discuss the importance of this course in your plan of study.

Major

The Core Curriculum is designed to foster critical thinking skills and introduce students to basic domains of thinking that transcend disciplines. The Core applies to all majors. Information on specific classes in the Core can be found at https://www.marshall.edu/gened/.

Code	Title	Credit Hours
Core Curriculum		
Core 1: Critical Thinking		
FYS 100	First Yr Sem Critical Thinking	3
MTH 229	Calculus/Analytic Geom I (CT)	5
Critical Thinking Course		3
Core 2		
ENG 101	Beginning Composition	3
ENG 201	Advanced Composition	3
CMM 103	Fund Speech-Communication	3
MTH 229	Calculus/Analytic Geom I (CT)	5
CHM 211 & CHM 217	Principles of Chemistry I and Principles of Chem Lab I	5
Core II Humanities		3
Core II Social Science		3
Core II Fine Arts		3
Additional University Requirements		
Writing Intensive (CHM 357 or 358)		3
Writing Intensive		3
Multicultural or International		3
CHM 491 or CHM 490	Capstone Experience Internship	1-6
Major-Specific		
CHM 211	Principles of Chemistry I	3
CHM 217	Principles of Chem Lab I	2
CHM 212	Principles Chemistry II	3
CHM 218	Principles of Chem Lab II	2
CHM 355	Organic Chemistry I	3
CHM 356	Organic Chemistry II	3
CHM 361	Intro Organic Chm Lab	3
CHM 305	Research Methods Chem	1
CHM 365	Introductory Biochemistry	3
Select one of the following:		4
CHM 357	Physical Chemistry: Quantum (WI)	
CHM 358	Physical Chemistry: Thermo. (WI)	
CHM 411	Modern Instrument Methods	4
CHM 491 or CHM 490	Capstone Experience (C) Internship	2
CHM 432	Chemistry Seminar	0
PHY 201	College Physics I	3
PHY 202	General Physics I Laboratory	1
PHY 203	College Physics II	3
PHY 204	General Physics 2 Laboratory	1
BSC 120	Principles of Biology I	3
BSC 120L	Principles of Biology I Lab	1
BSC 121	Principles of Biology II	3
BSC 121L	Prin of Biology II Lab	1

BSC 320	Principles of Ecology	4
BSC 445	Microbial Ecology	3
GEO 422	Environmental Geography	3
GLY 200	The Dynamic Earth	3
NRE 322	Assess I: Terrestrial Systems	4
NRE 323	Assessment II: Aquatic Ecology	4
STA 225	Introductory Statistics (CT)	3
or BSC 417	Biostatistics	
Environ Science Requirement		
Select at least 8 credits from a maximum of two departments of the following: [1]		8
BSC 431	Limnology	
CHM 467	Intermediate Biochemistry	
GLY 320L	Geology Lab Techniques	
GLY 420	Principles of Geochemistry	
GLY 455	Hydrogeology	
GLY 455L	Hydrogeology Laboratory	
GLY 456	Environmental Geology	
NRE 320	Nature Enviro Problems	
NRE 321	Resol Environ Problems	
Free Elective		1

[1] Students wishing a physical science emphasis may take all of the Geology electives and not take either BSC 445 Microbial Ecology or NRE 323 Assessment II: Aquatic Ecology.

Major Information

- Students are required to know and track their degree requirements for graduation or for entrance to a professional school.
- In addition to the Core General Education requirements, the College of Science requires 3 hours of Calculus, and 40 hours of upper level credit.
- Coursework listed as "elective" may vary for each student. Students are encouraged to use elective hours toward a or toward prerequisites.
- Students are strongly encouraged to select courses that meet two or more Core or College requirements. For example, a writing intensive literature course could satisfy the Core II Humanities requirement as well as the University writing intensive requirement.
- Course offerings and course attributes are subject to change semesters. Please consult each semesters schedule of courses for availability and attributes.
- Math is based on an ACT Mathematics score of 27 or higher. Students with an ACT Mathematics score less than 27 will be placed in the appropriate mathematics and science courses.
- A Grade Point Average of 2.0 is required
  a. overall,
  b. at MU,
  c. in all required Chemistry courses,
  d. in all Chemistry courses, and
  e. in all required Chemistry courses taken at MU.

- General Education Course

- Milestone course: a key success marker for your major. See your advisor to discuss the importance of this course in your plan of study.

Four Year Plan

Students completing the environmental chemistry major will be prepared for career opportunities in environmental chemistry, toxicology, environmental policy, and consulting. Additionally, Environmental Chemistry is an excellent choice for students desiring to pursue professional training in Law, or Safety, or Industrial Hygiene.

Course	Title	Credit Hours
First Year		
First Semester		
CHM 211	Principles of Chemistry I	3
CHM 217	Principles of Chem Lab I	2
BSC 120	Principles of Biology I	3
BSC 120L	Principles of Biology I Lab	1
ENG 101	Beginning Composition	3
FYS 100	First Yr Sem Critical Thinking	3
UNI 100	Freshman First Class	1
	Credit Hours	**16**
Second Semester		
CHM 212	Principles Chemistry II	3
CHM 218	Principles of Chem Lab II	2
BSC 121	Principles of Biology II	3
BSC 121L	Prin of Biology II Lab	1
MTH 229	Calculus/Analytic Geom I (CT)	5
	Credit Hours	**14**
Second Year		
First Semester		
ENG 201	Advanced Composition	3
CHM 355	Organic Chemistry I	3
PHY 201	College Physics I	3
PHY 202	General Physics I Laboratory	1
Core I Critical Thinking		3
Core II Social Science		3
	Credit Hours	**16**
Second Semester		
CHM 356	Organic Chemistry II	3
CHM 361	Intro Organic Chm Lab	3
PHY 203	College Physics II	3
PHY 204	General Physics 2 Laboratory	1
Core II Fine Arts		3
Free Elective		1
	Credit Hours	**14**
Third Year		
First Semester		
Select one of the following:		4
CHM 357	Physical Chemistry: Quantum (WI)	
CHM 358	Physical Chemistry: Thermo. (WI)	
CHM 305	Research Methods Chem	1

CHM 365	Introductory Biochemistry	3
BSC 320	Principles of Ecology	4
Free Elective		1
	Credit Hours	**13**
Second Semester		
Enviro Science Requirement		4
Core II Humanities (WI)		3
Statistics Elective		3
CHM 411	Modern Instrument Methods	4
GLY 200	The Dynamic Earth	3
	Credit Hours	**17**
Fourth Year		
First Semester		
CHM 491 or CHM 490	Capstone Experience or Internship	2
Environmental Analytical Chemistry		3
Enviro Science Requirement		4
Writing Intensive		3
NRE 322	Assess I: Terrestrial Systems	4
	Credit Hours	**16**
Second Semester		
CHM 432	Chemistry Seminar	0
BSC 445	Microbial Ecology	3
GEO 422	Environmental Geography	3
NRE 323	Assessment II: Aquatic Ecology	4
Multicultural or International		3
Free Elective		1
	Credit Hours	**14**
	Total Credit Hours	**120**

Forensic Chemistry, B.S.

- General Education Course

- Milestone course: a key success marker for your major. See your advisor to discuss the importance of this course in your plan of study.

Major

The Core Curriculum is designed to foster critical thinking skills and introduce students to basic domains of thinking that transcend disciplines. The Core applies to all majors. Information on specific classes in the Core can be found at https://www.marshall.edu/gened/.

Code	Title	Credit Hours
Core Curriculum		
Core 1: Critical Thinking		
FYS 100	First Yr Sem Critical Thinking	3
MTH 229	Calculus/Analytic Geom I (CT)	5
Critical Thinking Course		3
Core 2		
ENG 101	Beginning Composition	3
ENG 201	Advanced Composition	3
CMM 103	Fund Speech-Communication	3
MTH 229	Calculus/Analytic Geom I (CT)	5
BSC 120	Principles of Biology I	3
BSC 120L	Principles of Biology I Lab	1
Core II Humanities		3
CJ 200 or CJ 211	Intro to Criminal Justice (Core II Social Science) Intro to Law Enforcement	3
Core II Fine Arts		3
Additional University Requirements		
Writing Intensive		3
Writing Intensive		3
Multicultural or International		3
CHM 491 or CHM 490	Capstone Experience Internship	2
Major-Specific		
CHM 211	Principles of Chemistry I	3
CHM 217	Principles of Chem Lab I	2
CHM 212	Principles Chemistry II	3
CHM 218	Principles of Chem Lab II	2
CHM 355	Organic Chemistry I	3
CHM 356	Organic Chemistry II	3
CHM 361	Intro Organic Chm Lab	3
CHM 305	Research Methods Chem	1
CHM 345	Intro to Analytical Chem	4
CHM 365	Introductory Biochemistry	3
Select one of the following:		4
CHM 357	Physical Chemistry: Quantum (WI)	
CHM 358	Physical Chemistry: Thermo. (WI)	
CHM 411	Modern Instrument Methods	4
CHM 491 or CHM 490	Capstone Experience (C) Internship	2
CHM 432	Chemistry Seminar	0
300/400 CHM Elective		3
PHY 201	College Physics I	3
PHY 202	General Physics I Laboratory	1
PHY 203	College Physics II	3
PHY 204	General Physics 2 Laboratory	1
STA 225 or STA 345	Introductory Statistics (CT) Applied Prob and Stat	3
BSC 121	Principles of Biology II	3
BSC 121L	Prin of Biology II Lab	1
BSC 322	Principles Cell Biology	4
BSC 324	Principles of Genetics	4
CIT 163	Intro to Programming: C++	3
Restricted Electives [1]		
Chemistry courses may not be counted both as a chemistry elective and in this category.		
Select two of the following:		6
BSC 332	Principles of Human Anatomy (and BSC 332L)	
BSC 334	Principles of Human Physiology (and BSC 334L)	
BSC 450	Molecular Biology	

CHM 428	Intro Forensic Methods	
CHM 467	Intermediate Biochemistry	
CJ 314	Crime Scene & Investigations	3
CJ 323	Criminal Procedure	3
or CJ 422	Law of Evidence	

[1] Restricted Elective: Selection of one of the BSC courses provides a Biological Sciences minor.

Major Information

- Students are required to know and track their degree requirements for graduation or for entrance to a professional school.
- In addition to the Core General Education requirements, the College of Science requires 3 hours of Calculus, and 40 hours of upper level credit.
- Coursework listed as "elective" may vary for each student. Students are encouraged to use elective hours toward a minor or toward prerequisites.
- Students are strongly encouraged to select courses that meet two or more Core or College requirements. For example, a writing intensive literature course could satisfy the Core II Humanities as well as the University writing intensive requirement.
- Course offerings and course attributes are subject to change semesters. Please consult each semesters schedule of courses for availability and attributes.
- Math is based on an ACT Mathematics score of 27 or higher. Students with an ACT Mathematics score less than 27 will be placed in the appropriate mathematics and science courses.
- Students are strongly encouraged to engage in a Forensic Chemistry related Capstone Experience (CHM 491 Capstone Experience).
- A Grade Point Average of 2.0 is required
  a. overall,
  b. at MU,
  c. in all required Chemistry courses,
  d. in all Chemistry courses, and
  e. in all required Chemistry courses taken at MU.

- General Education Course

- Milestone course: a key success marker for your major. See your advisor to discuss the importance of this course in your plan of study.

Four Year Plan

This major is intended for students who wish to pursue a career in fields involving forensics. Degrees offered by the Department of Chemistry provide a program of studies that allows the individual to: obtain high quality instruction in chemistry as a scientific discipline, obtain a sound background in preparation for advanced studies, meet the qualifications of professional chemists and accrediting agencies, or prepare for a professional career in medicine, dentistry, pharmacy, medical technology, engineering, nursing and other fields.

Course	Title	Credit Hours
First Year		
First Semester		
CHM 211	Principles of Chemistry I	3
CHM 217	Principles of Chem Lab I	2
BSC 120	Principles of Biology I	3
BSC 120L	Principles of Biology I Lab	1
ENG 101	Beginning Composition	3
FYS 100	First Yr Sem Critical Thinking	3
UNI 100	Freshman First Class	1
	Credit Hours	**16**
Second Semester		
MTH 229	Calculus/Analytic Geom I (CT)	5
CHM 212	Principles Chemistry II	3
CHM 218	Principles of Chem Lab II	2
BSC 121	Principles of Biology II	3
BSC 121L	Prin of Biology II Lab	1
	Credit Hours	**14**
Second Year		
First Semester		
CHM 355	Organic Chemistry I	3
PHY 201	College Physics I	3
PHY 202	General Physics I Laboratory	1
CJ 200	Intro to Criminal Justice (Core II Social Science)	3
STA 225 or STA 345	Introductory Statistics (CT) or Applied Prob and Stat	3
Free Elective		1
	Credit Hours	**14**
Second Semester		
CHM 356	Organic Chemistry II	3
CHM 361	Intro Organic Chm Lab	3
PHY 203	College Physics II	3
PHY 204	General Physics 2 Laboratory	1
CMM 103	Fund Speech-Communication	3
ENG 201	Advanced Composition	3
	Credit Hours	**16**
Third Year		
First Semester		
CHM 365	Introductory Biochemistry	3
CHM 305	Research Methods Chem	1
Core II Fine Arts (Milestone course)		3
CIT 163	Intro to Programming: C++	3
CJ 314	Crime Scene & Investigations	3
Free Elective		3
	Credit Hours	**16**
Second Semester		
Select one of the following:		4
CHM 358	Physical Chemistry: Thermo. (WI)	
CHM 357	Physical Chemistry: Quantum (WI)	
Core II Humanities (CT)		3
BSC 322	Principles Cell Biology	4
CJ 323 or CJ 422	Criminal Procedure or Law of Evidence	3
	Credit Hours	**14**

Fourth Year		
First Semester		
CHM 345	Intro to Analytical Chem	4
CHM 491 or CHM 490	Capstone Experience or Internship	2
BSC 324	Principles of Genetics	4
Writing Intensive		3
Restricted Elective		3
	Credit Hours	**16**
Second Semester		
CHM 432	Chemistry Seminar	0
300/400 CHM Elective		3
Restricted Elective		4
CHM 411	Modern Instrument Methods	4
Multicultural or International		3
	Credit Hours	**14**
	Total Credit Hours	**120**

Department of Computer and Information Technology

Contacts: Dr. Davide Andrea Mauro, Chair
Website: https://www.marshall.edu/cit/

cit@marshall.edu

Programs

- Computer and Information Technology, B.S. (p. 600)
- Computer and Information Technology, Minor (p. 604)
- Game Development, Minor (p. 604)
- Web Development, Minor (p. 604)

Courses

- General Education Course

CIT 150 Spreadsheet and Database Apps **3 Credit hours**
Comprehensive coverage of spreadsheets and databases. Includes techniques to collect, manage, and analyze data; solve problems; and effectively communicate results for scientific research. Includes macro development and introduction to scripting.
Grade Mode: Normal Grading Mode

CIT 163 Intro to Programming: C++ **3 Credit hours**
Concepts of software development and maintenance using C++, including syntax of the language, loops, functions, pointers, decision structures, and file processing. Proper program design using object-oriented programming techniques are emphasized.
Grade Mode: Normal Grading Mode

CIT 260 Instrumentation **3 Credit hours**
The course introduces students to modern data gathering methods, laboratory instrumentation, and programming. Focuses range from transportation development, forensics, to environmental issues.
Grade Mode: Normal Grading Mode

CIT 263 Web Programming I **3 Credit hours**
Students will learn techniques for creating advanced documents and programs for the Web using HTML, DHTML, XML, JavaScript, and PHP scripting. Students will also learn how to install and maintain a Web server.
Grade Mode: Normal Grading Mode

CIT 264 Technology Foundations **3 Credit hours**
This course introduces the student to the common hardware and technology that pervades business and society as a whole. Topics include pc's, networks, software, the internet, cellular phones, etc.
Grade Mode: Normal Grading Mode

CIT 265 C# NET Programming **3 Credit hours**
Covers the essentials for developing robust and secure applications using C#, Windows forms, and the .NET framework. Also covers ADO.NET, writing secure .NET applications and web services.
Pre-req: IST 236 or CIT 236 or CS 120.
Grade Mode: Normal Grading Mode

CIT 266 Applied C++ Programming **3 Credit hours**
Designed to teach students intermediate C++ programming through an applied approach with examples and applications. The course extends topics covered in prerequisite courses. Prior programming knowledge in any language required.
Pre-req: CIT 163 with a minimum grade of D or CS 120 with a minimum grade of D.
Grade Mode: Normal Grading Mode

CIT 280 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

CIT 281 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

CIT 282 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

CIT 283 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

CIT 285 Independent Study **1-4 Credit hours**
Independent study for selected freshmen and sophomores under supervision of faculty; may be repeated only once.
Attributes: No Textbook Required
Grade Mode: Normal Grading Mode

CIT 301 Public Service Experience **1 Credit hour**
At least 30 contact hours in a public service/volunteer experience with a group, organization or agency that offers a service to the general public. Advisor permission required.
Grade Mode: Credit/No Credit Grade Only

CIT 313 Web Programming II **3 Credit hours**
The second semester of a two course sequence on Web programming. This course focuses on server-side programming and databases. Topics covered include PHP, mySQL, web services, and security.
Pre-req: CIT 263 with a minimum grade of D.
Grade Mode: Normal Grading Mode

CIT 332 Software Engineering I **3 Credit hours**
Introduction to the industrial process of software systems development. The course covers project management and planning risk management issues; software quality and configuration issues; and processes, methods, and development tools.
Pre-req: CIT 236 or IST 236 or CS 120.
Grade Mode: Normal Grading Mode

CIT 333 Software Engineering II **3 Credit hours**
Second course in a two course sequence. Covers the system development life cycle: requirement analysis and specifications; design methods; system implementation and integration; testing; and reuse issues. Team project participation.
Pre-req: CIT 332 with a minimum grade of D or IST 332 with a minimum grade of D.
Grade Mode: Normal Grading Mode

CIT 340 Game Development I:2D **3 Credit hours**
Covers computer software industry, history and the role of a creative game development team. Students will participate in the game development process, including art, animation, programming, music, sound and writing.
Pre-req: CIT 236 or IST 236 or CS 120.
Grade Mode: Normal Grading Mode

CIT 352 Network Protocols and Admin **3 Credit hours**
This course provides students with knowledge of network terminology, structures, topologies, protocols, and inter-faces involving Local Area and Wide Area networks.
Pre-req: CIT 163 with a minimum grade of D or IST 163 with a minimum grade of D or CS 110 with a minimum grade of D.
Grade Mode: Normal Grading Mode

CIT 365 Database Management **3 Credit hours**
To understand the logical and physical design of data stored and retrieved from a relational database. Exposure to distributed databases, database administration and structured query language will also be done.
Grade Mode: Normal Grading Mode

CIT 410 Electronic Commerce **3 Credit hours**
This course examines electronic commerce. Group decision making and collaborative applications through the Internet. Develop applications that retrieve and store information in distributed databases.
Pre-req: CIT 365 with a minimum grade of D or IST 365 with a minimum grade of D and CIT 313 with a minimum grade of D.
Attributes: No Textbook Required
Grade Mode: Normal Grading Mode

CIT 413 iOS Development **3 Credit hours**
Students will learn to develop iOS applications using HTML5/ PhoneGap, Objective-C, and Swift, using Apple and third-party SDKs. Also covers basic concepts for designing intuitive and usable user-interfaces.
Pre-req: CIT 265.
Grade Mode: Normal Grading Mode

CIT 414 Android Development **3 Credit hours**
Students will learn to develop Android applications using Java and the Android SDK. Course covers user interfaces, audio integration, SQLite databases, location services, sensors, and custom graphics.
Pre-req: CIT 265 with a minimum grade of D.
Attributes: No Textbook Required
Grade Mode: Normal Grading Mode

CIT 416 Advanced Web Programming **3 Credit hours**
Includes topics in XHTML, JavaScript Data Object Model, dynamic application of CSS rules to page elements, browser's support for XML, object-oriented PHP programming, server side graphics generation, web services.
Pre-req: CIT 365 with a minimum grade of D and CIT 313 with a minimum grade of D.
Grade Mode: Normal Grading Mode

CIT 440 Computer Graphics for Gaming **3 Credit hours**
Fundamental concepts dealing with the display of graphic information on semi-interactive storage tube displays. The course includes techniques for hidden line display, hidden line removal, and two- and three-dimensional transformation.
Pre-req: CIT 236 with a minimum grade of D or IST 236 with a minimum grade of D or CS 120 with a minimum grade of D.
Grade Mode: Normal Grading Mode

CIT 441 Game Development II:3D **3 Credit hours**
Covers state of the art techniques for computer game design and development with an emphasis on the 3D graphics and interaction through practical, example driven approaches of game development.
Pre-req: CIT 340 with a minimum grade of D or IST 360 with a minimum grade of D.
Attributes: No Textbook Required
Grade Mode: Normal Grading Mode

CIT 443 Game Development III: AI **3 Credit hours**
Advanced concepts of game development with a focus on artificial intelligence. AI techniques covered including A* path finding algorithm, rule-based reasoning, reinforcement learning, neural networks, genetic algorithm, knowledge representation.
Pre-req: CIT 441 with a minimum grade of D or IST 439 with a minimum grade of D.
Attributes: No Textbook Required
Grade Mode: Normal Grading Mode

CIT 446 3D Modeling and Animation **3 Credit hours**
Covers 3D modeling to create environments and character animation. Explores 3D forms within sculpture, architecture, animation and games. Includes development of simplifications, abstractions and hyper-realities for gaming.
Attributes: Digital Humanities, No Textbook Required
Grade Mode: Normal Grading Mode

CIT 447 Modeling/Simulation Dev **3 Credit hours**
Course applies fundamentals of game development to educational games or simulations within a virtual world. Explores virtual worlds, basic scripting/modeling techniques and role-playing simulations to teach any concept.
Pre-req: CIT 441 with a minimum grade of D.
Grade Mode: Normal Grading Mode

CIT 448 Mobile Game Development **3 Credit hours**
Students will work in teams to develop games for mobile devices. Emphasis on mobile development tools, techniques, cross platform development, and standard practices, using open-source software.
Pre-req: CIT 340 with a minimum grade of D.
Attributes: No Textbook Required
Grade Mode: Normal Grading Mode

CIT 466 Database Programming **3 Credit hours**
This course teaches students database programming available to relational database systems. Students will work with fourth generation languages to analyze, design and develop, and execute programs in a database environment.
Pre-req: CIT 365 or IST 365.
Attributes: No Textbook Required
Grade Mode: Normal Grading Mode

CIT 470 Internship in CIT **3 Credit hours**
Capstone course in CIT. A professionally supervised internship within the student's area of emphasis in the Computer and Information Technology major. Must be pre-approved before registering.
Attributes: Capstone Course
Grade Mode: Normal Grading Mode

CIT 480 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

CIT 481 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

CIT 482 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

CIT 483 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

CIT 485 Independent Study **1-4 Credit hours**
Independent study for selected juniors and seniors under supervision of faculty; may be repeated only once.
Attributes: No Textbook Required
Grade Mode: Normal Grading Mode

CIT 490 Capstone Project in CIT **3 Credit hours**
Capstone course in CIT. Students will plan, implement, and present a solution to a real-world problem within their emphasis demonstrating their technical and professional skills. Must be pre-approved before registering.
Attributes: Capstone Course
Grade Mode: Normal Grading Mode

Faculty

Professors
Morgan, Mummert

Associate Professors
Chahryar, Mauro

Assistant Professors
Cartwright, Fazea, Mundell

Computer and Information Technology, B.S.

Just what is a major in Computer and Information Technology? A major in Computer and Information Technology provides a solid grounding in the information technology field. CIT is a cutting-edge program rooted and grounded in courses that are both highly theoretical while also extremely applied in nature. Students are constantly exposed to the latest technology and trends in class, making them immediately employable upon graduation. A major in Computer and Information Technology provides graduates with the necessary tools and skills to succeed in today's global, technology-driven world. Majors must choose to specialize in an area of emphasis which allows them to enrich their studies in a focused discipline. These areas of emphasis include:

- Computer and Web Application Development
- Game/Simulation Development

CIT graduates' skills are highly marketable and graduates are prepared for careers in any of today's industries that use Information Technology. The integrated nature of the educational experience enables graduates to combine their IT skills with the intellectual flexibility needed to be critical thinkers and problem solvers. They are also effective communicators able to interact with clients, coworkers and managers. CIT faculty work to help students develop real-life employable skills through hands-on experience while providing students access to emerging technologies.

Even so, CIT is not Computer Science. While CIT has strong roots in CS and the study of computers in general, there are important distinctions between the two disciplines, from professional and curricular perspectives.

Professional Aspect

Computer science students typically are motivated by the computer itself and how it works through an engineering perspective. In other words, computer scientists are interested in how the computer works under the hood. Information technologists, on the other hand, are intrigued by using the computer to solve problems. Information technologists identify needs for technology, which the computer scientists and engineers create. Information Technologists would then help people to use the CS professionals' creations effectively. CIT does not focus on a single domain, but instead focuses on the selection, integration and deployment of computers and technology throughout society in the areas of computer application development, web/mobile application development, and game/simulation development. CS focuses on producing graduate/PhD students or software engineers.

Curricular Aspect

Computer science curricula have a stronger emphasis on programming and hardware than in the Computer and Information Technology curriculum. CIT students obviously need to be able to build software applications and systems, but the typical CIT project will involve building software from existing components with high-level languages such as C++ or C# and applying an accessible interface, rather than engineering large applications from scratch, focusing on software engineering principles, data structures and algorithm development issues.

Another significant difference in the disciplines is that a computer science curriculum is seen as being deeper in the sense that intermediate and advanced courses require more prerequisites. CIT courses typically have a flatter prerequisite structure, which allows non-technical majors to take CIT courses to add to their learning, tool set, and even lead to a minor.

Admission Standards

- A composite score on the ACT of at least 21 or the SAT equivalent.
- A mathematics score on the ACT of at least 21 or the SAT equivalent.

Major

Degree Requirements

The Computer and Information Technology major is a four-year program that requires a minimum of 120 credit hours, 40 of which must be at the 300-400 level. Please see the requirements under the Area of Emphasis in which you are interested.

Areas of Emphasis

- Computer and Web Application Development, Emphasis (p. 601)
- Game/Simulation Development, Emphasis (p. 602)

Computer and Web Application Development, Emphasis

- General Education Course

- Milestone course: a key success marker for your major. See your advisor to discuss the importance of this course in your plan of study.

Major

The Core Curriculum is designed to foster critical thinking skills and introduce students to basic domains of thinking that transcend disciplines. The Core applies to all majors. Information on specific classes in the Core can be found at https://www.marshall.edu/gened/.

Code	Title	Credit Hours
Core Curriculum		
Core 1: Critical Thinking		
FYS 100	First Yr Sem Critical Thinking	3
STA 150	Foundations of Statistics	3
CS 105	Expl World with Computing (CT)	3
Core 2		
ENG 101	Beginning Composition	3
ENG 201	Advanced Composition	3
CMM 103	Fund Speech-Communication	3
MTH 140	Applied Calculus	3
NRE 111	Living Systems (or BSC 104 and BSC 104L)	4
Core II Humanities		3
Core II Social Science		3
Core II Fine Arts		3
Additional University Requirements		
Writing Intensive		3
Writing Intensive		3
Multicultural or International		3
CIT 490	Capstone Project in CIT	3
or CIT 470	Internship in CIT	
Major-Specific		
CIT 150	Spreadsheet and Database Apps	3
CS 105	Expl World with Computing (CT)	3
CS 110	Computer Science I	3
CS 120	Computer Science II	3
CS 210	Data Structures and Algorithms	3
CIT 260	Instrumentation	3
CIT 265	C# NET Programming	3
or CIT 266	Applied C++ Programming	
CIT 263	Web Programming I	3
CIT 313	Web Programming II	3
CIT 332	Software Engineering I	3
CIT 333	Software Engineering II	3
CIT 352	Network Protocols and Admin	3
CIT 365	Database Management	3
ART 214	Foundations: Grid/Chroma	3
or ART 219	Foundations: Frame/Time	
MGT 320	Principles of Management	3
CIT 490	Capstone Project in CIT (C)	3
or CIT 470	Internship in CIT	
MTH 140	Applied Calculus	3
MTH 220	Discrete Structures	3
STA 150	Foundations of Statistics	3
STA 150L	Foundations of Statistics Lab	1
NRE 212	Energy	3
NRE 111	Living Systems (or BSC 104 and BSC 104L)	4
Physical/Natural Science Elective		4
Area of Emphasis-Specific		
CIT 416	Advanced Web Programming	3
CIT 466	Database Programming	3
CIT Technical 300/400 Elective		3
CIT Technical 300/400 Elective		3
CIT Technical 300/400 Elective		3
Free Elective		3
Free Elective		2

Major Information

- Students are required to know and track their degree requirements for graduation or for entrance to a professional school.
- Coursework listed as "elective" may vary for each student. Students are encouraged to use elective hours toward a minor or toward prerequisites.
- Students are strongly encouraged to select courses that meet two or more Core or College requirements. For example, a writing intensive literature course could satisfy the Core II Humanities requirement as well as the University writing intensive requirement.
- Course offerings and course attributes are subject to change semesters. Please consult each semesters schedule of courses for availability and attributes.
- Math is based on an ACT Mathematics score of 24 or higher. Students with an ACT Mathematics score less than 24 will be placed in the appropriate prerequisite mathematics and science courses.
- The Computer and Information Technology major is a four-year program that requires a minimum of 120 credit hours, 40 of which must be at the 300-400 level.

- General Education Course

- Milestone course: a key success marker for your major. See your advisor to discuss the importance of this course in your plan of study.

Four Year Plan

A major in Computer and Information Technology provides a solid grounding in the information technology field. CIT is a cutting-edge program with courses that are both highly theoretical while also extremely applied in nature. The Area of Emphasis in Computer

and Web Application Development focuses on the development of applications for business, industry, and education. Students will learn the software engineering process and project management and learn to program in languages such as C++ and C#. Students also learn to specify, design, and build large-scale software systems for existing hardware.

Course	Title	Credit Hours
First Year		
First Semester		
CIT 150	Spreadsheet and Database Apps	3
ENG 101	Beginning Composition	3
NRE 111	Living Systems (or BSC 104 and BSC 104L)	4
Multicultural or International		3
CS 105	Expl World with Computing (CT)	3
UNI 100	Freshman First Class	1
	Credit Hours	**17**
Second Semester		
CS 110	Computer Science I	3
CMM 103	Fund Speech-Communication	3
ENG 201	Advanced Composition	3
FYS 100	First Yr Sem Critical Thinking	3
MTH 140	Applied Calculus	3
	Credit Hours	**15**
Second Year		
First Semester		
CS 120	Computer Science II	3
CIT 260	Instrumentation	3
CIT 263	Web Programming I	3
Core II Fine Arts		3
MTH 220	Discrete Structures	3
	Credit Hours	**15**
Second Semester		
ART 214 or ART 219	Foundations: Grid/Chroma or Foundations: Frame/Time	3
CIT 313	Web Programming II	3
CS 210	Data Structures and Algorithms	3
STA 150	Foundations of Statistics	3
STA 150L	Foundations of Statistics Lab	1
Social Science		3
	Credit Hours	**16**
Third Year		
First Semester		
CIT 265 or CIT 266	C# NET Programming or Applied C++ Programming	3
CIT 332	Software Engineering I	3
CIT 365	Database Management	3
CIT Technical 300/400 Elective		3
Writing Intensive		3
	Credit Hours	**15**
Second Semester		
CIT 333	Software Engineering II	3
CIT 416	Advanced Web Programming	3
CIT Technical 300/400 Elective		3
Physical/Natural Science Elective		4
Core II Humanities		3
	Credit Hours	**16**
Fourth Year		
First Semester		
CIT 352	Network Protocols and Admin	3
CIT 466	Database Programming	3
NRE 212	Energy	3
Free Elective		2
Writing Intensive		3
	Credit Hours	**14**
Second Semester		
CIT Technical 300/400 Elective		3
MGT 320	Principles of Management	3
Free Elective		3
CIT 490 or CIT 470	Capstone Project in CIT or Internship in CIT	3
	Credit Hours	**12**
	Total Credit Hours	**120**

Game/Simulation Development, Emphasis

- General Education Course

- Milestone course: a key success marker for your major. See your advisor to discuss the importance of this course in your plan of study.

Major

The Core Curriculum is designed to foster critical thinking skills and introduce students to basic domains of thinking that transcend disciplines. The Core applies to all majors. Information on specific classes in the Core can be found at https://www.marshall.edu/gened/.

Code	Title	Credit Hours
Core Curriculum		
Core 1: Critical Thinking		
FYS 100	First Yr Sem Critical Thinking	3
STA 150	Foundations of Statistics	3
CS 105	Expl World with Computing (CT)	3
Core 2		
ENG 101	Beginning Composition	3
ENG 201	Advanced Composition	3
CMM 103	Fund Speech-Communication	3
MTH 140	Applied Calculus	3
Core II Humanities		3
NRE 111	Living Systems (or BSC 104 and BSC 104L)	4
Core II Social Science		3
Core II Fine Arts		3
Additional University Requirements		

Writing Intensive		3
Writing Intensive		3
Multicultural or International		3
CIT 490	Capstone Project in CIT	3
or CIT 470	Internship in CIT	
Major-Specific		
CIT 150	Spreadsheet and Database Apps	3
CS 105	Expl World with Computing (CT)	3
CS 110	Computer Science I	3
CS 120	Computer Science II	3
CS 210	Data Structures and Algorithms	3
CIT 260	Instrumentation	3
CIT 263	Web Programming I	3
CIT 266	Applied C++ Programming	3
CIT 313	Web Programming II	3
CIT 332	Software Engineering I	3
CIT 333	Software Engineering II	3
CIT 352	Network Protocols and Admin	3
CIT 365	Database Management	3
ART 214	Foundations: Grid/Chroma	3
or ART 219	Foundations: Frame/Time	
MGT 320	Principles of Management	3
CIT 490	Capstone Project in CIT (C)	3
or CIT 470	Internship in CIT	
MTH 140	Applied Calculus	3
STA 150	Foundations of Statistics	3
STA 150L	Foundations of Statistics Lab	1
NRE 111	Living Systems (or BSC 104 and BSC 104L)	4
NRE 212	Energy	3
MTH 220	Discrete Structures	3
Area of Emphasis-Specific		
PHY 201	College Physics I	3
PHY 202	General Physics I Laboratory	1
CIT 340	Game Development I:2D	3
CIT 440	Computer Graphics for Gaming	3
CIT 441	Game Development II:3D	3
CIT 443	Game Development III: AI	3
CIT 446	3D Modeling and Animation	3
CIT 447	Modeling/Simulation Dev	3
CIT 448	Mobile Game Development	3
Free Elective		2

Major Information

- Students are required to know and track their degree requirements for graduation or for entrance to a professional school.
- Coursework listed as "elective" may vary for each student. Students are encouraged to use elective hours toward a minor or toward prerequisites.
- Students are strongly encouraged to select courses that meet two or more Core or College requirements. For example, a writing intensive literature course could satisfy the Core II Humanities requirement as well as the University writing intensive requirement.
- Course offerings and course attributes are subject to change semesters. Please consult each semesters schedule of courses for availability and attributes.
- PHY 201 College Physics I is based on an ACT Mathematics score of 27 or higher. Students with an ACT Mathematics score less than 27 will be placed in the appropriate prerequisite mathematics courses.
- MTH 140 Applied Calculus is based on an ACT Mathematics score of 24 or higher. Students with an ACT Mathematics score less than 24 will be placed in the appropriate prerequisite mathematics and science courses.
- The Computer and Information Technology major is a four-year program that requires a minimum of 120 credit hours, 40 of which must be at the 300-400 level.

- General Education Course

- Milestone course: a key success marker for your major. See your advisor to discuss the importance of this course in your plan of study.

Four Year Plan

A major in Computer and Information Technology provides a solid grounding in the information technology field. CIT is a cutting-edge program with courses that are both highly theoretical while also extremely applied in nature. The Area of Emphasis in Game/Simulation development combines sound principles of computer application development with computer game development. This connection serves students who are coming to Marshall University with aspirations of developing computer, console, and mobile games.

Course	Title	Credit Hours
First Year		
First Semester		
STA 150	Foundations of Statistics	3
STA 150L	Foundations of Statistics Lab	1
ENG 101	Beginning Composition	3
NRE 111	Living Systems (or BSC 104 and BSC 104L)	4
CS 105	Expl World with Computing (CT)	3
UNI 100	Freshman First Class	1
	Credit Hours	**15**
Second Semester		
CS 110	Computer Science I	3
ENG 201	Advanced Composition	3
FYS 100	First Yr Sem Critical Thinking	3
MTH 140	Applied Calculus	3
CIT 150	Spreadsheet and Database Apps	3
	Credit Hours	**15**
Second Year		
First Semester		
CS 120	Computer Science II	3
CIT 260	Instrumentation	3
CIT 263	Web Programming I	3
PHY 201	College Physics I	3
PHY 202	General Physics I Laboratory	1

Core II Fine Arts		3
	Credit Hours	**16**
Second Semester		
ART 214 or ART 219	Foundations: Grid/Chroma or Foundations: Frame/Time	3
CIT 313	Web Programming II	3
CS 210	Data Structures and Algorithms	3
MTH 220	Discrete Structures	3
CMM 103	Fund Speech-Communication	3
	Credit Hours	**15**
Third Year		
First Semester		
CIT 332	Software Engineering I	3
CIT 365	Database Management	3
CIT 340	Game Development I:2D	3
CIT 266	Applied C++ Programming	3
Core II Social Science (M/I)		3
	Credit Hours	**15**
Second Semester		
CIT 333	Software Engineering II	3
CIT 441	Game Development II:3D	3
CIT 446	3D Modeling and Animation	3
Core II Humanities		3
Free Elective		2
	Credit Hours	**14**
Fourth Year		
First Semester		
CIT 352	Network Protocols and Admin	3
CIT 440	Computer Graphics for Gaming	3
CIT 447	Modeling/Simulation Dev	3
NRE 212	Energy	3
Writing Intensive		3
	Credit Hours	**15**
Second Semester		
CIT 443	Game Development III: AI	3
CIT 448	Mobile Game Development	3
MGT 320	Principles of Management	3
CIT 490 or CIT 470	Capstone Project in CIT or Internship in CIT	3
Writing Intensive		3
	Credit Hours	**15**
	Total Credit Hours	**120**

Computer and Information Technology, Minor

Students must complete 15 hours of CIT designated courses, 12 of which must be at the 200 level or above. Students wishing to obtain a minor in CIT must work from an approved curriculum plan developed in consultation with a CIT advisor.

Minors are 12-18 hours of courses designed for non-majors. Please consult your advisor for specifics.

Game Development, Minor

This minor combines the sound principles of computer application development through computer game development. Game development is a very popular venue in higher education and this minor gives students in other IT-related disciplines the opportunity to explore the ever-growing popularity of game development as an option. The minor allows students to explore gaming through the Marshall University's Computer and Information Technology department's computer lab for gaming (Marshall's Advanced Gaming and Interactive Computing Lab-MAGIC Lab) where students can interact with each other, playing different types of computer games to research latest trends and graphics and discuss gaming, as well as, design and develop their own games as projects for courses required for the minor.

Code	Title	Credit Hours
Required Courses		
CIT 340	Game Development I:2D	3
CIT 440	Computer Graphics for Gaming	3
CIT 441	Game Development II:3D	3
Select two courses from the following:		6
CIT 443	Game Development III: AI	
CIT 446	3D Modeling and Animation	
CIT 447	Modeling/Simulation Dev	
CIT 448	Mobile Game Development	
Total Credit Hours		**15**

Minors are 12-18 hours of courses designed for non-majors. Please consult your advisor for specifics.

Web Development, Minor

Students are introduced to HTML5, CSS, JavaScript, databases, SQL, PHP and .NET scripting, and advanced web programming techniques while receiving a fundamental understanding of the latest hardware and computer technologies.

Code	Title	Credit Hours
Required Courses		
CIT 263	Web Programming I	3
CIT 313	Web Programming II	3
CIT 365	Database Management	3
CIT 410	Electronic Commerce	3
CIT 416	Advanced Web Programming	3
Total Credit Hours		**15**

Department of Criminal Justice and Criminology

Contacts: Dr. Dhruba Bora, Chair
Website: http://www.marshall.edu/criminal-justice (http://www.marshall.edu/criminal-justice/)

criminal-justice@marshall.edu

The Department of Criminal Justice and Criminology provides undergraduate and graduate students with a high quality criminal justice education to prepare them for future success in:

1. public service (i.e., law enforcement, courts and administration, probation, parole, jails and prisons, juvenile justice, victims' services, and training/teaching);
2. law school;
3. graduate school; or
4. the private sector (i.e., loss prevention/security and corrections).

A unique contribution of the Criminal Justice and Criminology program is to develop students' intellectual abilities, critical thinking skills, research skills, language/ communication skills, and problem-solving skills within a broadly based exposure to the study of the law, the legal system, and the practical realities of how social, economic, and political contexts influence the roles of professionals/practitioners and also the operation of the criminal justice system. The Department of Criminal Justice and Criminology is also committed to:

1. applied and basic research;
2. leadership in public service to the community;
3. educating students in forensic applications and technological integration; and
4. developing insight into multicultural and global issues.

Programs

- Criminal Justice, Accelerated Master's Degree (http://catalog.marshall.edu/undergraduate/programs-az/science/criminal-justice-criminology/criminal-justice-accelerated-masters-degree/)
- Criminal Justice, B.A. (p. 608)
- Criminal Justice, Minor (p. 611)

Courses

- General Education Course

CJ 200 Intro to Criminal Justice **3 Credit hours**
This survey course examines the various components of the criminal justice system, including law enforcement, courts, and corrections. Students will be introduced to various criminal justice agencies and career possibilities. This survey course examines the various components of the criminal justice system, including law enforcement, courts, and corrections. Students will be introduced to various criminal justice agencies and career possibilities.
Attributes: Core II Social Sciences
Grade Mode: Normal Grading Mode

CJ 211 Intro to Law Enforcement **3 Credit hours**
Designed to examine the philosophical and historical background of law enforcement in the United States. Addresses constitutional limitations on law enforcement, objectives of law enforcement, and processes of law enforcement. Designed to examine the philosophical and historical background of law enforcement in the United States. Addresses constitutional limitations on law enforcement, objectives of law enforcement, and processes of law enforcement.
Attributes: Core II Social Sciences
Grade Mode: Normal Grading Mode

CJ 221 Intro to Criminal Courts **3 Credit hours**
This course addresses the evolution of current functioning of the American criminal court system. Students are exposed to court administration, court procedures, and the state and federal court system. This course addresses the evolution of current functioning of the American criminal court system. Students are exposed to court administration, court procedures, and the state and federal court system.
Attributes: Core II Social Sciences
Grade Mode: Normal Grading Mode

CJ 223 Introduction to Legal Research **3 Credit hours**
An introduction to the processes and strategies involved in legal research. Students will develop an understanding of the sources of legal information and judgment in selecting appropriate sources and formats for specific projects.
Grade Mode: Normal Grading Mode

CJ 231 Intro to Corrections **3 Credit hours**
A survey of the historical development of the systems of punishment and rehabilitation. Analysis of the reasons for incarceration of offenders. A survey of the historical development of the systems of punishment and rehabilitation. Analysis of the reasons for incarceration of offenders.
Attributes: Core II Social Sciences
Grade Mode: Normal Grading Mode

CJ 280 Special Topics **1-4 Credit hours**
Lower level specialized courses of contemporary interest. Lower level specialized courses of contemporary interest.
Grade Mode: Normal Grading Mode

CJ 281 Special Topics **1-4 Credit hours**
Lower level specialized courses of contemporary interest. Lower level specialized courses of contemporary interest.
Grade Mode: Normal Grading Mode

CJ 282 Special Topics **1-4 Credit hours**
Lower level specialized courses of contemporary interest. Lower level specialized courses of contemporary interest.
Grade Mode: Normal Grading Mode

CJ 283 Special Topics **1-4 Credit hours**
Lower level specialized courses of contemporary interest. Lower level specialized courses of contemporary interest.
Grade Mode: Normal Grading Mode

CJ 300 Admin of Criminal Justice **3 Credit hours**
This course provides an analysis of the theories of organization and the administration of criminal justice agencies, including management styles, techniques of leadership, and decision-making.
Pre-req: CJ 200.
Grade Mode: Normal Grading Mode

CJ 302 CJ Research Methods **3 Credit hours**
Logic of social research methods, survey research, methods of evaluation, sampling, and the contrast between qualitative and quantitative CJ research.
Pre-req: CJ 200 with a minimum grade of D.
Grade Mode: Normal Grading Mode

CJ 314 Crime Scene & Investigations **3 Credit hours**
This course exposes students to crime scene processing techniques and technology, criminal investigation procedures, sources of information, interrogation, victim and witness interviewing, legal issues in criminal investigations.
Pre-req: CJ 211 with a minimum grade of D.
Grade Mode: Normal Grading Mode

CJ 322 Criminal Law **3 Credit hours**
History and development of criminal law, elements of a crime; parties to a crime, types of offenses. History and development of criminal law, elements of a crime; parties to a crime, types of offenses.
Pre-req: CJ 200 with a minimum grade of D.
Grade Mode: Normal Grading Mode

CJ 323 Criminal Procedure **3 Credit hours**
Admissibility of evidence and confessions, recent civil rights decisions, reconciling individual rights and community interest in law and order. Admissibility of evidence and confessions, recent civil rights decisions, reconciling individual rights and community interest in law and order.
Pre-req: CJ 200.
Attributes: Social Sciences
Grade Mode: Normal Grading Mode

CJ 325 Juvenile Justice **3 Credit hours**
A survey of the process--the police, the courts, and corrections--through which the juvenile delinquent passes. A survey of the process--the police, the courts, and corrections--through which the juvenile delinquent passes.
Pre-req: CJ 200 with a minimum grade of D.
Attributes: Social Sciences
Grade Mode: Normal Grading Mode

CJ 331 Probation & Parole **3 Credit hours**
Organization of systems of after-care treatment of juvenile and adult offenders released under probation and parole. Organization of systems of after-care treatment of juvenile and adult offenders released under probation and parole.
Pre-req: CJ 231 with a minimum grade of D.
Attributes: Social Sciences
Grade Mode: Normal Grading Mode

CJ 332 Correctional Rehab **3 Credit hours**
Examines the theories, treatment strategies and the role of the correctional counselor. Special emphasis is given to the topics of classification, development of treatment plans and principles of effective intervention. Examines the theories, treatment strategies and the role of the correctional counselor. Special emphasis is given to the topics of classification, development of treatment plans and principles of effective intervention.
Pre-req: CJ 231 with a minimum grade of D.
Grade Mode: Normal Grading Mode

CJ 340 Drugs and Crime **3 Credit hours**
Examines the history and consequences of mind-altering drugs, and criminal behavior as it is affected by drugs, the legal response to substance abuse, treatment and prevention of substance abuse.
Grade Mode: Normal Grading Mode

CJ 341 Victims of Crime **3 Credit hours**
Examines victims of crime, the process and consequences of victimization. Also covered are victims' rights and services available for victims and victim compensation.
Grade Mode: Normal Grading Mode

CJ 400 Applied Ethics in CJ **3 Credit hours**
Examines ethical issues and moral dilemmas faced by criminal justice professionals. Traditional ethical theories and practices designed to foster public trust in the criminal justice system are examined and applied.
Pre-req: CJ 200 with a minimum grade of D.
Grade Mode: Normal Grading Mode

CJ 403 Understanding Cybercrime **3 Credit hours**
Examination of hacking, piracy, cyber stalking, cyber bullying, identity theft, and other cybercrimes through the lens of various criminological theories with an emphasis on research methodology and criminal justice policy.
Grade Mode: Normal Grading Mode

CJ 404 Theoretical Criminology **3 Credit hours**
A critical analysis of the major criminological theories and their empirical foundations. Current theory and research receive greater emphasis than historical development.
Pre-req: CJ 200 with a minimum grade of D.
Grade Mode: Normal Grading Mode

CJ 405 Women & the CJS **3 Credit hours**
Examines factors surrounding women and the criminal justice system from a theoretical and practical perspective. Explores feminist ideologies, plus women as victims, offenders, and professionals in the justice system.
Pre-req: CJ 200 with a minimum grade of D.
Grade Mode: Normal Grading Mode

CJ 406 Race, Ethnicity, Class & Crime **3 Credit hours**
Examines the impact and relationship of race, ethnicity, and social class within the criminal justice system.
Pre-req: CJ 200.
Attributes: Multicultural
Grade Mode: Normal Grading Mode

CJ 410 Police Administration **3 Credit hours**
Functins and activities of police agencies. Police department organizations, responsibilities of upper level administrators. Current administrative experimentation on law enforcement agencies. Functins and activities of police agencies. Police depart- ment organizations, responsibilities of upper level administrators. Current administrative experimentation on law enforcement agencies.
Pre-req: CJ 211.
Grade Mode: Normal Grading Mode

CJ 415 Rural Criminology **3 Credit hours**
Critical analysis of rural crime and the criminological sub-field of rural criminology. Examines the economic, racial, and cultural conditions in rural America which reproduce exploitive economies and overall destructive behaviors.
Grade Mode: Normal Grading Mode

CJ 416 Terrorism **3 Credit hours**
Provides students with a working knowledge of the history of terrorism, the current status of terrorist groups, terrorism tactics, and methods to counteract terrorism.
Grade Mode: Normal Grading Mode

CJ 417 CJ Decision Making **3 Credit hours**
Focuses on theories of criminal justice decision-making and decision points across the criminal justice system. Topics include the decision to report crime, police decisions, jury decisions, and sentencing decisions.
Pre-req: CJ 200 with a minimum grade of D.
Grade Mode: Normal Grading Mode

CJ 418 Crime and Pop Culture **3 Credit hours**
A critical examination of the popular cutlure presentation of crime, offenders, victims, and the criminal justice process.
Pre-req: CJ 200 with a minimum grade of D.
Grade Mode: Normal Grading Mode

CJ 420 Homeland Security **3 Credit hours**
This course takes a comprehensive approach to studying the facets of homeland security, the complexity of homeland security and terrorism, defeating terrorists, and Homeland Security's response to terrorist threats.
Grade Mode: Normal Grading Mode

CJ 422 Law of Evidence **3 Credit hours**
Leading rules and principles of exclusion and selection; burden of proof, nature and effect of presumptions; proof of authenticity and contents of writings; examinations, compentency and privilege of witnesses. Leading rules and principles of exclusion and selection; burden of proof, nature and effect of presumptions; proof of authenticity and contents of writings; examinations, compentency and privilege of witnesses.
Pre-req: CJ 200.
Grade Mode: Normal Grading Mode

CJ 424 Computer Crime **3 Credit hours**
Students will identify and define criminal acts committed with computers or directed toward computer systems, electronic search and seizure and electronic evidence.
Grade Mode: Normal Grading Mode

CJ 426 Civil Liability Issues CJ **3 Credit hours**
This course examines various theories of civil liability that relate to Criminal Justice professionals, the civil justice system, and preventing and defending civil liability claims.
Pre-req: CJ 200 with a minimum grade of D.
Grade Mode: Normal Grading Mode

CJ 433 Correctional Administration **3 Credit hours**
Objectives of correctional institutions; records; personnel, program development, security; educational programs. Objectives of correctional institutions; records; personnel, program development, security; educational programs.
Pre-req: CJ 231.
Grade Mode: Normal Grading Mode

CJ 440 CJ Response to Dom Violence **3 Credit hours**
This course focuses on the legal response to child abuse, domestic violence, and elder abuse. Examines dynamics of abusive relationships, the effects of victimization, and current research on these issues.
Grade Mode: Normal Grading Mode

CJ 450 Business & Industrial Security **3 Credit hours**
Selection, training, and staffing of a security force; security devices available; techniques of internal security; ground security; security techniques applicable to personnel selection; legal problems. CJ majors only.
Pre-req: CJ 200 with a minimum grade of D.
Grade Mode: Normal Grading Mode

CJ 453 Seminar in Crime Prevention **3 Credit hours**
This course examines theory, operation, and evaluation of crime prevention as a function of the criminal justice system. Techniques for crime prevention are analyzed from various orientations, including environmental design.
Pre-req: CJ 200 with a minimum grade of D.
Grade Mode: Normal Grading Mode

CJ 460 Miscarriages of Justice **3 Credit hours**
This course provides a critical examination of the processes and procedures used by police, prosecutors, defense attorneys, judges, and corrections agents which may potentially produce errors or "miscarriages" of justice.
Pre-req: CJ 200.
Grade Mode: Normal Grading Mode

CJ 480 Special Topics **1-4 Credit hours**
A study of special interest criminal justice topics under the supervision of a qualified faculty member. A study of special interest criminal justice topics under the supervision of a qualified faculty member.
Grade Mode: Normal Grading Mode

CJ 481 Special Topics **1-4 Credit hours**
A study of special interest criminal justice topics under the supervision of a qualified faculty member. A study of special interest criminal justice topics under the supervision of a qualified faculty member.
Grade Mode: Normal Grading Mode

CJ 482 Special Topics **1-4 Credit hours**
A study of special interest criminal justice topics under the supervision of a qualified faculty member. A study of special interest criminal justice topics under the supervision of a qualified faculty member.
Grade Mode: Normal Grading Mode

CJ 483 Special Topics **1-4 Credit hours**
A study of special interest criminal justice topics under the supervision of a qualified faculty member. A study of special interest criminal justice topics under the supervision of a qualified faculty member.
Grade Mode: Normal Grading Mode

CJ 485 Independent Study **1-4 Credit hours**
This course permits the student to undertake supervised research (field or library) in any area where there is no appropriate course. This course permits the student to undertake supervised research (field or library) in any area where there is no appropriate course.
Grade Mode: Normal Grading Mode

CJ 486 Independent Study **1-4 Credit hours**
This course permits the student to undertake supervised research (field or library) in any area where there is no appropriate course. This course permits the student to undertake supervised research (field or library) in any area where there is no appropriate course.
Grade Mode: Normal Grading Mode

CJ 487 Independent Study **1-4 Credit hours**
This course permits the student to undertake supervised research (field or library) in any area where there is no appropriate course. This course permits the student to undertake supervised research (field or library) in any area where there is no appropriate course.
Grade Mode: Normal Grading Mode

CJ 488 Independent Study **1-4 Credit hours**
This course permits the student to undertake supervised research (field or library) in any area where there is no appropriate course. This course permits the student to undertake supervised research (field or library) in any area where there is no appropriate course.
Grade Mode: Normal Grading Mode

CJ 490 Internship **1-6 Credit hours**
The placement of an individual into a criminal justice ageny (police, probation, courts, jails) to observe and participate in its operation. Grading is CR/NC only. The placement of an individual into a criminal justice ageny (police, probation, courts, jails) to observe and participate in its operation. Grading is CR/NC only.
Grade Mode: Credit/No Credit Grade Only

CJ 492 Senior Seminar **3 Credit hours**
Capstone course. Integrates and applies material learned in the program of study. Serves as a culminating experience in which students demonstrate what they have learned in the classroom.
Pre-req: (CJ 200 with a minimum grade of D and CJ 302 with a minimum grade of D and CJ 404 with a minimum grade of D).
Attributes: Capstone Course
Grade Mode: Normal Grading Mode

Faculty

Professors
Bora, DeTardo-Bora

Associate Professor
Perkins

Assistant Professors
Phillips, Quick, Young

Criminal Justice, B.A.

- General Education Course

- Milestone course: a key success marker for your major. See your advisor to discuss the importance of this course in your plan of study.

Major

The Core Curriculum is designed to foster critical thinking skills and introduce students to basic domains of thinking that transcend disciplines. The Core applies to all majors. Information on specific classes in the Core can be found at https://www.marshall.edu/gened/.

Code	Title	Credit Hours
Core Curriculum		
Core 1: Critical Thinking		
FYS 100	First Yr Sem Critical Thinking	3
MTH 160	Applied Math Reasoning (CT)	5
Critical Thinking Course		3
Core 2		
ENG 101	Beginning Composition	3
ENG 201	Advanced Composition	3
CMM 103	Fund Speech-Communication	3
MTH 160	Applied Math Reasoning (CT)	5
FSC 224	Intro to Forensic Science	4
Core II Humanities		3
CJ 200	Intro to Criminal Justice (Core II Social Science)	3
Core II Fine Arts (milestone course)		3
Additional University Requirements		
Writing Intensive		3
CJ 492	Senior Seminar (Writing Intensive)	3
Multicultural or International		3
CJ 492	Senior Seminar	3
Major-Specific		
CJ 200	Intro to Criminal Justice	3
Select one of the following, based on Area of Emphasis: [1]		3
CJ 211	Intro to Law Enforcement	
CJ 221	Intro to Criminal Courts	
CJ 231	Intro to Corrections	
CJ 302	CJ Research Methods	3
CJ 322	Criminal Law	3
CJ 404	Theoretical Criminology	3
CJ 492	Senior Seminar	3
CIT 150 or MIS 200	Spreadsheet and Database Apps Bus Computer Applications	3
FSC 224	Intro to Forensic Science	4
CS 105 or CFS 200	Expl World with Computing (CT) Introduction to CFS	3
MTH 160	Applied Math Reasoning (CT)	5
Physical/Natural Science Elective		4
300/400 CJ Concentration Elective outside AoE		3
300/400 CJ Concentration Elective outside AoE		3
300/400 CJ Concentration Elective		3
300/400 CJ Concentration Elective		3
300/400 CJ Concentration Elective		3
300/400 CJ Concentration Elective		3
300/400 CJ Concentration Elective		3
300/400 CJ Concentration Elective		3
300/400 Free Elective		3
300/400 Free Elective		3
300/400 Free Elective		3
300/400 Free Elective		3
Free Elective		3
Free Elective		3
Free Elective		3
Free Elective		3
Free Elective		3
Free Elective		1

[1] One will be counted as a milestone course.

Major Information

- Students are required to know and track their degree requirements for graduation or for entrance to a professional school.
- In addition to the Core General Education requirements, the College of Science requires 40 hours of upper level credit.
- Coursework listed as "elective" may vary for each student. Students are encouraged to use elective hours toward a minor or toward prerequisites.
- Students are encouraged to complete an internship in the area of emphasis (CJ 490 Internship) in the summer before their senior year. Internships require approval from the CJ Department Chair.
- Course offerings and course attributes are subject to change. Please consult each semester's schedule of courses for availability and attributes.
- **Areas of Emphasis:** 24 hours (18 hours in AoE plus 6 hours CJ coursework outside AoE; CJ 200 Intro to Criminal Justice, CJ 302 CJ Research Methods, CJ 322 Criminal Law, CJ 404 Theoretical Criminology and CJ 492 Senior Seminar do not count toward the 18 AoE or the 6 additional CJ electives.)

- General: Students who do not select an area of emphasis take both CJ 211 Intro to Law Enforcement and CJ 231 Intro to Corrections as well as a variety of criminal justice electives to suit their career interests to complete the 24 hours of CJ electives.

Areas of Emphasis

- Corrections, Emphasis (p. 610)
- Law Enforcement, Emphasis (p. 610)
- Legal Studies, Emphasis (p. 610)

- General Education Course

- Milestone course: a key success marker for your major. See your advisor to discuss the importance of this course in your plan of study.

Four Year Plan

The Department of Criminal Justice and Criminology provides undergraduate and graduate students with a high quality criminal justice education to prepare them for future success in:

1. public service (i.e., law enforcement, courts and administration, probation, parole, jails and prisons, juvenile justice, victims' services, and training/teaching);
2. law school;
3. graduate school; or
4. the private sector (i.e., loss prevention/security and corrections).

A unique contribution of the Criminal Justice and Criminology program is to develop students' intellectual abilities, critical thinking skills, research skills, language/ communication skills, and problem-solving skills within a broadly based exposure to the study of the law, the legal system, and the practical realities of how social, economic, and political contexts influence the roles of professionals/practitioners and also the operation of the criminal justice system.

Course	Title	Credit Hours
First Year		
First Semester		
CJ 200	Intro to Criminal Justice	3
CMM 103	Fund Speech-Communication	3
ENG 101	Beginning Composition	3
FYS 100	First Yr Sem Critical Thinking	3
Free Elective		3
UNI 100	Freshman First Class	1
	Credit Hours	**16**
Second Semester		
MTH 160	Applied Math Reasoning (CT)	5
Select one of the following:		3
CJ 211	Intro to Law Enforcement	
CJ 221	Intro to Criminal Courts	
CJ 231	Intro to Corrections	
Core II Fine Arts		3
Core I Critical Thinking		3
	Credit Hours	**14**
Second Year		
First Semester		
ENG 201	Advanced Composition	3
CIT 150 or MIS 200	Spreadsheet and Database Apps or Bus Computer Applications	3
Select one of the following:		3
CJ 211	Intro to Law Enforcement	
CJ 221	Intro to Criminal Courts	
CJ 231	Intro to Corrections	
Free Elective		3
Core I: Multicultural/International		3
	Credit Hours	**15**
Second Semester		
CS 105 or CFS 200	Expl World with Computing (CT) or Introduction to CFS	3
Select one of the following:		3
CJ 211	Intro to Law Enforcement	
CJ 221	Intro to Criminal Courts	
CJ 231	Intro to Corrections	
Physical or Natural Science		4
Free Elective		3
Free Elective		3
	Credit Hours	**16**
Third Year		
First Semester		
CJ 322	Criminal Law	3
Core II Humanities (WI)		3
300/400 CJ Concentration Elective		3
300/400 CJ Concentration Elective		3
300/400 Free Elective		3
	Credit Hours	**15**
Second Semester		
FSC 224	Intro to Forensic Science	4
300/400 CJ Concentration Elective		3
300/400 CJ Concentration Elective		3
CJ 302	CJ Research Methods	3
300/400 Free Elective		3
	Credit Hours	**16**
Fourth Year		
First Semester		
300/400 CJ Concentration Elective		3
300/400 CJ Concentration Elective		3
CJ 404	Theoretical Criminology	3
300/400 Free Elective		3
300/400 Free Elective		3
	Credit Hours	**15**
Second Semester		
CJ 492	Senior Seminar	3
300/400 CJ Concentration Elective (outside AoE)		3
300/400 CJ Concentration Elective (outside AoE)		3

Free Elective		4
	Credit Hours	**13**
	Total Credit Hours	**120**

Corrections, Emphasis

- General Education Course

- Milestone course: a key success marker for your major. See your advisor to discuss the importance of this course in your plan of study.

Major

Code	Title	Credit Hours
CJ 231	Intro to Corrections	3
Select five of the following:		15
CJ 325	Juvenile Justice	
CJ 331	Probation & Parole	
CJ 332	Correctional Rehab	
CJ 400	Applied Ethics in CJ	
CJ 406	Race, Ethnicity, Class & Crime	
CJ 417	CJ Decision Making	
CJ 433	Correctional Administration	
CJ 490	Internship	
Other options that may be used with permission from the department chair may include, but are not limited to:		
CJ 300	Admin of Criminal Justice	
CJ 340	Drugs and Crime	
CJ 341	Victims of Crime	
CJ 405	Women & the CJS	
CJ 426	Civil Liability Issues CJ	
CJ 460	Miscarriages of Justice	
CJ coursework outside AoE		6
Total Credit Hours		**24**

24 hours (18 hours in AoE plus 6 hours CJ coursework outside AoE; CJ 200 Intro to Criminal Justice, CJ 302 CJ Research Methods, CJ 322 Criminal Law, CJ 404 Theoretical Criminology and CJ 492 Senior Seminar do not count toward the 18 AoE or the 6 additional CJ electives.)

Law Enforcement, Emphasis

- General Education Course

- Milestone course: a key success marker for your major. See your advisor to discuss the importance of this course in your plan of study.

Major

Code	Title	Credit Hours
CJ 211	Intro to Law Enforcement	3
Select five of the following:		15
CJ 300	Admin of Criminal Justice	
CJ 314	Crime Scene & Investigations	
CJ 323	Criminal Procedure	
CJ 400	Applied Ethics in CJ	
CJ 406	Race, Ethnicity, Class & Crime	
CJ 410	Police Administration	
CJ 416	Terrorism	
CJ 417	CJ Decision Making	
CJ 424	Computer Crime	
CJ 426	Civil Liability Issues CJ	
CJ 490	Internship	
Other options that may be used with permission from the department chair may include, but are not limited to:		
CJ 325	Juvenile Justice	
CJ 340	Drugs and Crime	
CJ 341	Victims of Crime	
CJ 403	Understanding Cybercrime	
CJ 405	Women & the CJS	
CJ 415	Rural Criminology	
CJ 460	Miscarriages of Justice	
CJ 440	CJ Response to Dom Violence	
CJ coursework outside AoE		6
Total Credit Hours		**24**

24 hours (18 hours in AoE plus 6 hours CJ coursework outside AoE; CJ 200 Intro to Criminal Justice, CJ 302 CJ Research Methods, CJ 322 Criminal Law, CJ 404 Theoretical Criminology and CJ 492 Senior Seminar do not count toward the 18 AoE or the 6 additional CJ electives.)

Legal Studies, Emphasis

- General Education Course

- Milestone course: a key success marker for your major. See your advisor to discuss the importance of this course in your plan of study.

Major

Code	Title	Credit Hours
CJ 221	Intro to Criminal Courts	3
Select five of the following:		15
CJ 223	Introduction to Legal Research	
CJ 323	Criminal Procedure	
CJ 400	Applied Ethics in CJ	
CJ 417	CJ Decision Making	
CJ 422	Law of Evidence	
CJ 424	Computer Crime	
CJ 426	Civil Liability Issues CJ	
CJ 490	Internship	
Other options that may be used with permission from the department chair may include, but are not limited to:		
CJ 325	Juvenile Justice	
CJ 341	Victims of Crime	
CJ 403	Understanding Cybercrime	
CJ 405	Women & the CJS	

CJ 415	Rural Criminology	
CJ 460	Miscarriages of Justice	
CJ 406	Race, Ethnicity, Class & Crime	
CJ 416	Terrorism	
CJ 440	CJ Response to Dom Violence	
CJ coursework outside AoE		6
Total Credit Hours		**24**

24 hours (18 hours in AoE plus 6 hours CJ coursework outside AoE; CJ 200 Intro to Criminal Justice, CJ 302 CJ Research Methods, CJ 322 Criminal Law, CJ 404 Theoretical Criminology and CJ 492 Senior Seminar do not count toward the 18 AoE or the 6 additional CJ electives.)

Criminal Justice, Minor

A minor in Criminal Justice consists of 15 credit hours of courses that include CJ 200 Intro to Criminal Justice and 12 other hours. These hours should be chosen with the assistance of a Criminal Justice advisor.

Department of Cyber Forensics and Security

Contacts: Prof. John Sammons, Chair

sammons17@marshall.edu

Programs

- Computer Forensics, Minor (p. 613)
- Cyber Forensics and Security, B.S. (p. 613)
- Information Assurance, Certificate (p. 615)

Courses

- General Education Course

CFS 200 Introduction to CFS **3 Credit hours**
This course teaches student how information is recovered from electronic devices and the forensic techniques used to perform forensic examinations. In addition, legal issues regarding electronic data will be discussed.
Grade Mode: Normal Grading Mode

CFS 261 Introduction to Linux **3 Credit hours**
An introductory course for the Linux operating system, focusing on its application in information assurance and the digital forensics.
Pre-req: CFS 200 with a minimum grade of D or IST 264 with a minimum grade of D or IST 280 with a minimum grade of D or DFIA 200 with a minimum grade of D.
Grade Mode: Normal Grading Mode

CFS 305 Open Source Intelligence **3 Credit hours**
This course identifies and demonstrates free online resources that can aid investigators in searching the Internet for resources that can be applied to domestic and international investigations.
Pre-req: CFS 200 with a minimum grade of D or IST 264 with a minimum grade of D or IST 280 with a minimum grade of D or DFIA 200 with a minimum grade of D.
Grade Mode: Normal Grading Mode

CFS 357 Network Penetration and Attack **4 Credit hours**
Students will explore tools and techniques used to penetrate, exploit and ex filtrate data from computers and networks.
Pre-req: CFS 200 with a minimum grade of D or IST 264 with a minimum grade of D or IST 280 with a minimum grade of D or DFIA 200 with a minimum grade of D.
Grade Mode: Normal Grading Mode

CFS 400 Intro to Cyber Forensics **3 Credit hours**
This course teaches students how information is recovering from electronic devices and the forensic techniques used to perform forensic examinations. In addition, legal issues regarding electronic data will be discussed.
Pre-req: CFS 200 with a minimum grade of D or IST 264 with a minimum grade of D or IST 280 with a minimum grade of D or DFIA 200 with a minimum grade of D.
Grade Mode: Normal Grading Mode

CFS 405 OSINT Practicum **3 Credit hours**
Grade Mode: Normal Grading Mode

CFS 406 OSINT Practicum II **3 Credit hours**
Grade Mode: Normal Grading Mode

CFS 410 Collegiate Cyber Competition I **3 Credit hours**
Pre-req: CFS 200 with a minimum grade of D.
Grade Mode: Normal Grading Mode

CFS 411 Collegiate Cyber Comp II **3 Credit hours**
Pre-req: CFS 200 with a minimum grade of D.
Grade Mode: Normal Grading Mode

CFS 420 Incident Response **3 Credit hours**
This course examines forensic and investigative aspects of a network intrusion. Topics include pre-incident preparation, developing leads, scoping an incident, forensic data collection, evidence form hosts, networks, and enterprise environments.
Pre-req: CFS 400 with a minimum grade of D.
Grade Mode: Normal Grading Mode

CFS 430 Exploit Development **3 Credit hours**
Students will learn the skills required to reverse-engineer 32-bit and 64-bit applications, perform remote user application, analyze patches for 1-day exploits, and write complex modern software and operating systems.
Pre-req: CFS 200 with a minimum grade of D or IST 264 with a minimum grade of D or IST 280 with a minimum grade of D or DFIA 200 with a minimum grade of D.
Grade Mode: Normal Grading Mode

CFS 440 Digital Evidence **4 Credit hours**
Concepts of computer forensics, including handling digital evidence, case preparation, forensic imaging, data recovery, password cracking, e-mail analysis, and report writing. Proper usage of difference forensic tools is emphasized.
Pre-req: CFS 200 with a minimum grade of D or IST 264 with a minimum grade of D or IST 280 with a minimum grade of D or DFIA 200 with a minimum grade of D.
Grade Mode: Normal Grading Mode

CFS 445 Mobile & Web Pen Testing **3 Credit hours**
This course is designed to teach students the advanced skills and techniques required to test mobile and web applications.
Pre-req: CFS 200 with a minimum grade of D or IST 264 with a minimum grade of D or IST 280 with a minimum grade of D or DFIA 200 with a minimum grade of D.
Grade Mode: Normal Grading Mode

CFS 448 Multimedia Forensics **3 Credit hours**
Course will introduce principles of multimedia forensics and their application to digital forensics. Practical forensics enhancements and analysis techniques, including how to prepare forensically-sound exhibits are covered.
Pre-req: CFS 200 with a minimum grade of D or IST 264 with a minimum grade of D or IST 280 with a minimum grade of D or DFIA 200 with a minimum grade of D.
Grade Mode: Normal Grading Mode

CFS 454 Network Defense **4 Credit hours**
An in-depth examination of the principles, strategies, and tools used to defend, detect, and respond to a variety of common network attacks.
Pre-req: CFS 200 with a minimum grade of D.
Grade Mode: Normal Grading Mode

CFS 460 Applied Cyber Forensics **4 Credit hours**
Introduction to the principles, practices and tools of digital forensics and electronic discovery. Hands-on exercises in a simulated real-world environment are a critical component of the course.
Pre-req: CFS 400 with a minimum grade of D.
Grade Mode: Normal Grading Mode

CFS 461 Cyber Warfare **3 Credit hours**
Broad examination of this new form of conflict including the role of nation states, the challenge of attribution, potential impact on the physical world, and current government policy and doctrine.
Pre-req: CFS 200 with a minimum grade of D or IST 264 with a minimum grade of D or IST 280 with a minimum grade of D or DFIA 200 with a minimum grade of D.
Grade Mode: Normal Grading Mode

CFS 462 Network Forensics **4 Credit hours**
Examination of techniques and tools used to investigate, search, collect, analyze, and report on network based breaches and events.
Pre-req: (CFS 200 with a minimum grade of D or IST 264 with a minimum grade of D or DFIA 200 with a minimum grade of D) and CFS 400 with a minimum grade of D and CFS 261 with a minimum grade of D and CIT 352 with a minimum grade of D.
Grade Mode: Normal Grading Mode

CFS 464 Network Security **3 Credit hours**
Addresses security issues for TCP/IP-based networks, Access Control and Communications are covered as well as Internet security in areas of cryptography, protocols, applications, encryption, hash functions digital signatures, etc.
Pre-req: CFS 200 with a minimum grade of D.
Grade Mode: Normal Grading Mode

CFS 467 Mobile Device Forensics **4 Credit hours**
Identification, preservation, collection, analysis, and reporting techniques and tools used in the forensics examination of mobile devices such as cell phones and GPS units.
Pre-req: CFS 400 with a minimum grade of D and (CFS 200 with a minimum grade of D or DFIA 200 with a minimum grade of D or IST 264 with a minimum grade of D).
Grade Mode: Normal Grading Mode

CFS 470 Internship **3 Credit hours**
Grade Mode: Normal Grading Mode

CFS 480 Special Topics **3 Credit hours**
Grade Mode: Normal Grading Mode

CFS 485 Independent Study **3-6 Credit hours**
Grade Mode: Normal Grading Mode

CFS 490 Capstone **3 Credit hours**
This course reinforces assesses the student's ability to apply core digital forensics and information assurance knowledge and skills in a series of realistic practical exercises.
Pre-req: CFS 357 with a minimum grade of D and CFS 460 with a minimum grade of D and CFS 467 with a minimum grade of D.
Attributes: Capstone Course
Grade Mode: Normal Grading Mode

CFS 491 Research **3-6 Credit hours**
Students will explore and apply common research methods used in digital forensics and information assurance. Students will complete a research project including a paper or poster during the semester.
Grade Mode: Normal Grading Mode

CFS 500 Intro to Digital Forensics **3 Credit hours**
Introduces students to core digital forensic concepts, including data storage, imaging, the digital forensics process, common Windows artifacts, and the fundamentals of the forensic examination of digital media using AccessData.
Grade Mode: Normal Grading Mode

CFS 505 OSINT Practicum I **3 Credit hours**
Students will learn how to use advanced tools that can aid investigators in searching the Internet and resources that can be applied to domestic and international investigations.
Grade Mode: Normal Grading Mode

CFS 520 Incident Response **3 Credit hours**
Course examines forensic and investigate aspects of incident response. Topics include pre-incident preparation, developing leads, scoping an incident, data collection, forensic duplication, evidence from hosts, networks, application and enterprise environments.
Grade Mode: Normal Grading Mode

CFS 545 Mobile and Web Pen Testing **3 Credit hours**
Students will learn the advanced skills and techniques required to test mobile and web applications. This advanced pen-testing course uses a combination of lecture, real-world experiences, and hands-on exercises.
Grade Mode: Normal Grading Mode

CFS 548 Multimedia Forensics **3 Credit hours**
Course will introduce principles of multimedia forensics (images, audio, and video) and their application to cyber forensics. Practical forensics enhancement, analysis, and reporting tools and techniques are covered.
Grade Mode: Normal Grading Mode

CFS 554 Adv Network Defense **3 Credit hours**
Tools and techniques used to protect, monitor, analyze, detect and respond to unauthorized activity computers and networks.
Grade Mode: Normal Grading Mode

CFS 561 Applied Cyber Warfare **3 Credit hours**
Latest developments and advancement in cyber warfare facing nation-state and non-nation-state actors.
Grade Mode: Normal Grading Mode

CFS 562 Network Forensics **3 Credit hours**
Examination of techniques and tools used to investigate, search, collect, analyze and report on network based breaches and events.
Grade Mode: Normal Grading Mode

CFS 564 Network and Cyber Crime **3 Credit hours**
Examines fundamental security concepts, protocols, and procedures commonly in use today. Topics include governance, access control, cryptography, physical security, security architecture, and application development security.
Grade Mode: Normal Grading Mode

CFS 567 Mobile Device Forensics **3 Credit hours**
Identification, preservation, collection, analysis, and reporting techniques and tolls used in the forensic examination of mobile devices such as mobile phones, tablets and GPS units.
Grade Mode: Normal Grading Mode

CFS 581 Special Topics **3 Credit hours**
Study of emerging and advanced topics in Cyber Forensics and Security. Topics vary with instructor and change from one semester to another.
Grade Mode: Normal Grading Mode

CFS 630 Cyber Threat Intelligence **3 Credit hours**
A detailed study of the cyber threat intelligence process and its products. Topics include threat modeling, structured analysis, adversary groups, tactical, operations, and strategic threat intelligence.
Grade Mode: Normal Grading Mode

CFS 650 Adv Cyber Defense **3 Credit hours**
An advanced study cyber defense, including coverage of topics such as social engineering, authorization techniques, security models, trusted computing, network architecture security, operating system security, endpoint security, database security, and physical security.
Grade Mode: Normal Grading Mode

CFS 660 Red Team **3 Credit hours**
Students will learn how to plan and execute and end-to-end adversary emulation and build a red team program, leverage threat intelligence to map against adversary tactic and tool automation.
Grade Mode: Normal Grading Mode

CFS 665 Cyber Sec IoT and ICS **3 Credit hours**
Students will learn the tools and techniques to defend IoT and ICS systems that run teh Power Grid and other critical systems.
Grade Mode: Normal Grading Mode

CFS 670 Practicum **3-6 Credit hours**
Students will gain experience and practical knowledge working with professionals in the field of Cyber Forensics and Security as well as gaining real-world experience.
Grade Mode: Normal Grading Mode

CFS 675 Research in CFS **1-6 Credit hours**
Students will plan, implement, research and present a solution to a real-world problem within cyber forensics & defense, demonstrating their technical and professional skills. Must be pre-approved before registering.
Attributes: Thesis
Grade Mode: Normal Grading Mode

CFS 680 Special Topics **3 Credit hours**
Grade Mode: Normal Grading Mode

CFS 690 Capstone **3 Credit hours**
This capstone course is the culminating experience for the Masters Degree in Cyber Forensics and Security. This course builds on the concepts covered within the program of study.
Grade Mode: Normal Grading Mode

Faculty

Professors
Cohenford

Associate Professors
Brunty, Sammons

Assistant Professors
Gardner

Computer Forensics, Minor

This minor is recommended for students in disciplines such as Criminal Justice who want to focus in computer forensics as a part of their curriculum.

Code	Title	Credit Hours
IST 264		3
Select three courses of the sequence in Cyber Forensics and Security:		9
CFS 400	Intro to Cyber Forensics	
CFS 440	Digital Evidence	
CFS 448	Multimedia Forensics	
CFS 460	Applied Cyber Forensics	
CJ 424	Computer Crime	3
Total Credit Hours		**15**

Cyber Forensics and Security, B.S.

- General Education Course

- Milestone course: a key success marker for your major. See your advisor to discuss the importance of this course in your plan of study.

major

The Core Curriculum is designed to foster critical thinking skills and introduce students to basic domains of thinking that transcend disciplines. The Core applies to all majors. Information on specific classes in the Core can be found at https://www.marshall.edu/gened/.

Code	Title	Credit Hours
Core Curriculum		
Core 1: Critical Thinking		
FYS 100	First Yr Sem Critical Thinking	3
Critical Thinking Course		5
Critical Thinking Course		3
Core 2		
ENG 101	Beginning Composition	3
ENG 201	Advanced Composition	3
CMM 103	Fund Speech-Communication	3
MTH 140	Applied Calculus	3
FSC 224	Intro to Forensic Science	4
Core II Humanities		3
CJ 200	Intro to Criminal Justice	3
Core II Fine Arts		3
Additional University Requirements		

CFS 440	Digital Evidence (Writing Intensive)	4
CFS 460	Applied Cyber Forensics (Writing Intensive)	4
Multicultural or International		3
CFS 490	Capstone	3
Major-Specific		
NRRM 200	Analytical Methods: Statistics	4
MTH 140	Applied Calculus	3
FSC 224	Intro to Forensic Science	4
Physical/Natural Science Elective Sequence 1		4
Physical/Natural Science Elective Sequence 2		3
CIT 163	Intro to Programming: C++	3
CIT 263	Web Programming I	3
CIT 352	Network Protocols and Admin	3
CIT 365	Database Management	3
CJ 200	Intro to Criminal Justice	3
CJ 314	Crime Scene & Investigations	3
CJ 424	Computer Crime	3
CFS 200	Introduction to CFS	3
CFS 261	Introduction to Linux	3
CFS 305	Open Source Intelligence	3
CFS 357	Network Penetration and Attack	4
CFS 400	Intro to Cyber Forensics	3
CFS 440	Digital Evidence	4
CFS 448	Multimedia Forensics	3
CFS 460	Applied Cyber Forensics	4
CFS 454	Network Defense	4
CFS 462	Network Forensics	4
CFS 467	Mobile Device Forensics	4
CTS Technical Elective		3
CTS Technical Elective		3
CFS 490	Capstone	3
Free Elective		4
Free Elective		3
Free Elective		3
Free Elective		1

Major Information

- Students are required to know and track their degree requirements for graduation or for entrance to a professional school.
- Coursework listed as "free elective" may vary for each student. Students are encouraged to use elective hours toward a minor or toward prerequisites.
- Students are strongly encouraged to select courses that meet two or more Core or College requirements.
- Course offerings and course attributes are subject to change semesters. Please consult each semesters schedule of courses for availability and attributes.
- Math is based on an ACT Mathematics score of 24 or higher. Students with an ACT Mathematics score less than 24 will be placed in the appropriate mathematics and science courses.
- Prior to entering their junior year, students are required to pass a background check (no arrests or convictions) and supply two letters of reference that attest to the student's character. Under certain very limited circumstances, this requirement may be waived. That decision will be made by a review committee comprised of the university digital forensic and information assurance faculty along with the department chair. The background check is done at the student's expense.

- General Education Course

- Milestone course: a key success marker for your major. See your advisor to discuss the importance of this course in your plan of study.

Four Year Plan

The Bachelor of Science in Cyber Forensics and Security prepares students to meet the challenges of today's cyber threats. Cyber Forensics and Security skills are in high demand in law enforcement, business, government, defense, intelligence, and the private sector. The program has a solid foundation in science, technology, and communication skills. Students learn to conduct forensic analysis on a variety of devices and systems, defend a network, testify in court, and conduct penetration tests among other skills.

Course	Title	Credit Hours
First Year		
First Semester		
ENG 101	Beginning Composition	3
FYS 100	First Yr Sem Critical Thinking	3
Multicultural or International		3
Core II Fine Arts		3
Core II Humanities (CT)		3
UNI 100	Freshman First Class	1
	Credit Hours	**16**
Second Semester		
CIT 163	Intro to Programming: C++	3
CJ 200	Intro to Criminal Justice	3
ENG 201	Advanced Composition	3
CFS 200	Introduction to CFS	3
Free Elective		3
	Credit Hours	**15**
Second Year		
First Semester		
CIT 352	Network Protocols and Admin	3
CFS 400	Intro to Cyber Forensics	3
NRRM 200	Analytical Methods: Statistics	4
Physical/Natural Science Elective - Seq 1		4
	Credit Hours	**14**
Second Semester		
CIT 263	Web Programming I	3
CFS 261	Introduction to Linux	3
CMM 103	Fund Speech-Communication	3
MTH 140	Applied Calculus	3
Physical/Natural Science Elective - Seq 2		3
	Credit Hours	**15**
Third Year		
First Semester		
CIT 365	Database Management	3

CFS 305	Open Source Intelligence	3
CFS 357	Network Penetration and Attack	4
CFS 460	Applied Cyber Forensics	4
	Credit Hours	**14**
Second Semester		
CJ 424	Computer Crime	3
CFS 454	Network Defense	4
CFS 462	Network Forensics	4
Free Elective		3
Free Elective		1
	Credit Hours	**15**
Fourth Year		
First Semester		
CJ 314	Crime Scene & Investigations	3
CFS 467	Mobile Device Forensics	4
CFS 448	Multimedia Forensics	3
FSC 224	Intro to Forensic Science	4
Select one of the following CFS Technical Electives:		3
CFS 420	Incident Response	
CFS 430	Exploit Development	
CFS 461	Cyber Warfare	
CFS 445	Mobile & Web Pen Testing	
CFS 464	Network Security	
CFS 480	Special Topics	
	Credit Hours	**17**
Second Semester		
CFS 440	Digital Evidence	4
CFS 490	Capstone	3
Free Elective		4
Select one of the following CFS Technical Electives:		3
CFS 420	Incident Response	
CFS 430	Exploit Development	
CFS 445	Mobile & Web Pen Testing	
CFS 461	Cyber Warfare	
CFS 464	Network Security	
CFS 480	Special Topics	
	Credit Hours	**14**
	Total Credit Hours	**120**

Information Assurance, Certificate

- General Education Course

- Milestone course: a key success marker for your major. See your advisor to discuss the importance of this course in your plan of study.

Evidence of information assurance coursework is required for many government and private industry positions. This certificate will meet the government requirements for certification and continuing education for several information security certifications including Security+, CEH, and CISSP.

Admission Requirements

Students may pursue the certificate while enrolled in Marshall University or as a certificate-only student. Students already enrolled in the undergraduate degree program should submit to the Office of Admissions a Secondary Program Request form.

Applicants interested in the certificate-only program should apply for admission to Marshall University as a Certificate/Professional Development student and select on the application form the Undergraduate Certificate in Information Assurance.

Requirements

Code	Title	Credit Hours
CFS 357	Network Penetration and Attack	4
CFS 454	Network Defense	4
IST 264		
CFS 461	Cyber Warfare	3
Total Credit Hours		**11**

All courses are required for the certificate. A student must maintain a grade of *C* or better for each of the required courses to complete the certificate.

Department of Geology

Contacts: Prof. Aley El-Shazly, Chair, elshazly@marshall.edu
Website: http://www.marshall.edu/geology (http://www.marshall.edu/geology/)

Geology (or Geoscience) is the study of the earth's composition, internal structure, processes, and history. Geoscientists perform three vitally important roles in our society by

1. supplying the things we need (energy resources, metals, building materials, water),
2. protecting the environment (preventing or mitigating contamination of water, soil or air, or adverse impacts on ecosystems), and
3. minimizing the impact of geologic hazards (floods, landslides, earthquakes, volcanic eruptions, tsunamis) on people and property.

The Earth's expanding population and increased use of natural resources along with our need for energy, environmental protection, and responsible land and resource management are likely to fuel a demand for geoscientists well into the future. Demand for geoscientists is predicted to increase over the next decade. The median annual wage for geoscientists was $83,680 in 2021 (U.S. Bureau of Labor Statistics).

Marshall University's location in southern West Virginia provides students with a wealth of opportunities for field-based studies in environmental geology, engineering geology, and energy resources. The Department of Geology offers a B.S. degree in Geology, a B.A. degree in Geology, and a B.A. degree in Earth Science. The B.S. in Geology degree consists of an interdisciplinary curriculum that provides a sound foundation in both fundamental and applied aspects of geology and is the more appropriate option for students considering graduate studies in Geology. Graduates are typically employed by environmental and engineering companies, natural

resource industries, and government agencies, or pursue more advanced degrees. The curriculum for the B.A. degree in Geology has greater flexibility, less rigorous mathematics and physics, and less comprehensive geology requirements than the B.S. in Geology. The B.A. Geology degree provides a basis for science-related careers such as environmental law, pre-college teaching, science journalism, and resource management and marketing.

The B.A. in Earth Science degree integrates all the earth sciences in a systems approach to understanding the Earth. The curriculum incorporates a broader range of natural sciences such as oceanography, meteorology and astronomy, which are not included in the geology major. The emphasis is on the preparation of individuals to work in a wide range of public sector service careers where a background in earth science and effective communication of science to nonscientific audiences are requirements or assets. The major also provides a solid foundation for those wishing to pursue a career as an earth science teacher.

Programs

- Geology, B.A. (p. 618)
- Geology, B.S. (p. 619)
- Geology, Minor (p. 624)

Courses

- General Education Course

GLY 100 Geologic Hazards & Resources **3 Credit hours**
Introductory course for non-science majors focusing on (i) Earth Hazards; and mitigation, (ii) Climate change and its impacts; and (iii) Earth and Energy resources, their origin, development, and environmental impacts.
Attributes: Natural Sciences, Core II Natural Sciences
Grade Mode: Normal Grading Mode

GLY 150 Intro Oceanography **3 Credit hours**
Origin of the seas and ocean basins. Processes of marine sedimentation and seawater chemistry. Dynamics of air/sea interaction, circulation, waves and tides. Description of coastal and other marine environments. Origin of the seas and ocean basins. Processes of marine sedimentation and seawater chemistry. Dynamics of air/sea interaction, circulation, waves and tides. Description of coastal and other marine environments.
Attributes: Natural Sciences, Core II Natural Sciences
Grade Mode: Normal Grading Mode

GLY 150L Intro Oceanography Lab **1 Credit hour**
A complementary laboratory to Introductory Oceanography, GLY 150. A series of exercises relating to bathymetry, accoustic profiling, marine charts, properties of seawater, sea floor sediments, currents, waves and tides. A complementary laboratory to Introductory Oceanography, GLY 150. A series of exercises relating to bathymetry, accoustic profiling, marine charts, properties of seawater, sea floor sediments, currents, waves and tides.
Co-req: GLY 150
Attributes: Natural Sciences, Core II Natural Sciences
Grade Mode: Normal Grading Mode

GLY 170 Geology of the National Parks **3 Credit hours**
An introduction to U.S. Parks and Monuments including earth materials, plate tectonic setting, formative geologic processes, and natural history; brief overview of history and purpose of the National Park Service.
Grade Mode: Normal Grading Mode

GLY 200 The Dynamic Earth **3 Credit hours**
An elementary but comprehensive physical geology course that deals with the earth's origin, composition, structures, tectonics and processes. Intended primarily for, but not limited to, the science major. 3 lec. An elementary but comprehensive physical geology course that deals with the earth's origin, composition, structures, tectonics and processes. Intended primarily for, but not limited to, the science major. 3 lec.
Attributes: Natural Sciences, Core II Natural Sciences
Grade Mode: Normal Grading Mode

GLY 201 The Earth Through Time **3 Credit hours**
Introduction to 1) the principles used to interpret past physical, biologic, and chemical events archived in rock record, and 2)the history and development of the earth's lithosphere, biosphere, hydrosphere, and atmosphere.
Attributes: Natural Sciences, Core II Natural Sciences
Grade Mode: Normal Grading Mode

GLY 210L Earth Materials Lab **1 Credit hour**
An introduction to laboratory methods and materials as applied to the identification, classification, recovery and uses of earth resources. 2 lab. An introduction to laboratory methods and materials as applied to the identification, classification, recovery and uses of earth resources. 2 lab.
Attributes: Natural Sciences, Core II Natural Sciences
Grade Mode: Normal Grading Mode

GLY 211L Earth Through Time Lab **1 Credit hour**
Reconstruction of events in earth history based on physical characteristics and arrangement of rock layers and their fossil contens. 2 hr lab (PR: 210L; CR: GLY 201) Reconstruction of events in earth history based on physical characteristics and arrangement of rock layers and their fossil contens. 2 hr lab (PR: 210L; CR: GLY 201)
Attributes: No Textbook Required, Natural Sciences, Core II Natural Sciences
Grade Mode: Normal Grading Mode

GLY 212 Geologic Field Methods **3 Credit hours**
Introduction to geologic map interpretation, qualitative and quantitative methods of geologic map and cross-section preparation, and basic ArcGIS mapping methods. 2 lec 1 lab. (Field Work).
Pre-req: (GLY 200 with a minimum grade of D or GLY 201 with a minimum grade of D) and (GLY 210L with a minimum grade of D or GLY 211L with a minimum grade of D).
Attributes: Natural Sciences
Grade Mode: Normal Grading Mode

GLY 280 Special Topics **1-4 Credit hours**
Attributes: Natural Sciences
Grade Mode: Normal Grading Mode

GLY 281 Special Topics **1-4 Credit hours**
Attributes: Natural Sciences
Grade Mode: Normal Grading Mode

GLY 282 Special Topics **1-4 Credit hours**
Attributes: Natural Sciences
Grade Mode: Normal Grading Mode

GLY 283 Special Topics **1-4 Credit hours**
Attributes: Natural Sciences
Grade Mode: Normal Grading Mode

GLY 313 Structural Geology **4 Credit hours**
Analysis, classification and origin of depositional and deformational structures common to all classes of rocks; their structural history, relationships, and stresses which caused them. 3 lec-2 lab. Analysis, classification and origin of depositional and deformational structures common to all classes of rocks; their structural history, relationships, and stresses which caused them. 3 lec-2 lab.
Pre-req: GLY 110 or GLY 200.
Attributes: Natural Sciences
Grade Mode: Normal Grading Mode

GLY 314 Mineralogy **4 Credit hours**
Identification, classification, orgin, occurrences, and economic uses of minerals and their crystallographic forms. 3 lec-2 lab. Identification, classification, orgin, occurrences, and economic uses of minerals and their crystallographic forms. 3 lec-2 lab.
Pre-req: GLY 200 with a minimum grade of D and CHM 211 with a minimum grade of D.
Attributes: Natural Sciences
Grade Mode: Normal Grading Mode

GLY 320L Geology Lab Techniques **2 Credit hours**
Techniques of collection, preparation and analysis of mineral, rock and water samples, and the use of different instruments for obtaining quality data. Will also cover tools used for data interpretation. Techniques of collection, preparation and analysis of mineral, rock and water samples, and the use of different instruments for obtaining quality data. Will also cover tools used for data interpretation.
Pre-req: GLY 200 (may be taken concurrently) with a minimum grade of D and GLY 210L (may be taken concurrently) with a minimum grade of D.
Concurrent PR: GLY 200 and GLY 210L
Grade Mode: Normal Grading Mode

GLY 325 Stratigraphy & Sediment **4 Credit hours**
Formation, organization, sequence, and correlation of sedimentary rocks; study of the orgin, transportation and deposition of rock-forming sediments. 3 lec-2 lab. Formation, organization, sequence, and correlation of sedimentary rocks; study of the orgin, transportation and deposition of rock-forming sediments. 3 lec-2 lab.
Pre-req: GLY 201 with a minimum grade of D and GLY 211L with a minimum grade of D.
Attributes: Natural Sciences
Grade Mode: Normal Grading Mode

GLY 330 Tectonics **3 Credit hours**
Overview of tectonic processes at plate boundaries, orogenic systems, formation of continents and ocean basins, and tectonic analytical methods.
Pre-req: GLY 200 and GLY 201 and GLY 210L and GLY 211L.
Grade Mode: Normal Grading Mode

GLY 410 Big Bend Field Excursion **2 Credit hours**
Field trip to Big Bend National Park, Texas to study the structure, stratigraphy, igneous geology, metamorphic geology, paleontology and natural history of this national park. Field trip to Big Bend National Park, Texas to study the structure, stratigraphy, igneous geology, metamorphic geology, paleontology and natural history of this national park.
Attributes: Natural Sciences
Grade Mode: Normal Grading Mode

GLY 418 Invertebrate Paleontology **4 Credit hours**
Taxonomy, morphology, and paleoecology of body and trace fossils representing the major invertebrate phyla; analysis and interpretation of faunal assemblages; evolution and extinction of species. (PR: GLY 201) Taxonomy, morphology, and paleoecology of body and trace fossils representing the major invertebrate phyla; analysis and interpretation of faunal assemblages; evolution and extinction of species. (PR: GLY 201)
Pre-req: GLY 201 with a minimum grade of D and GLY 211L with a minimum grade of D.
Attributes: Natural Sciences
Grade Mode: Normal Grading Mode

GLY 420 Principles of Geochemistry **3 Credit hours**
Application of chemical principles to geology. Topics include cosmochemistry; distribution of elements in minerals and rocks; aqueous solutions and water-rock interaction; radiometric age dating and stable isotope geology.
Pre-req: CHM 211 with a minimum grade of D and GLY 200 with a minimum grade of D.
Grade Mode: Normal Grading Mode

GLY 421 Igneous& Metamorphic Petrology **4 Credit hours**
Indentification and classification of igneous, and metamorphic rocks, their origin and occurrence; their geologic and economic importance. 3 lec-2 lab. Indentification and classification of igneous, and metamorphic rocks, their origin and occurrence; their geologic and economic importance. 3 lec-2 lab.
Pre-req: GLY 200 with a minimum grade of D and GLY 314 with a minimum grade of D.
Attributes: Natural Sciences
Grade Mode: Normal Grading Mode

GLY 423 Sedimentary Petrology **4 Credit hours**
Microscopic description of minerals, textures, and fossils in sedimentary rocks, their classification, and interpretation of source area, depositional environment and post-depositional history. 3 lec-2 lab.
Pre-req: GLY 201.
Attributes: Natural Sciences
Grade Mode: Normal Grading Mode

GLY 426 Geophysics **3 Credit hours**
Development of seismic, gravity, magnetism, electrical and thermal methods of studying the structure and dynamics of the earth. 3-lec
Pre-req: GLY 200 with a minimum grade of D and GLY 210L with a minimum grade of D and (PHY 201 with a minimum grade of D or PHY 211 with a minimum grade of D) and MTH 229 with a minimum grade of D.
Attributes: Natural Sciences
Grade Mode: Normal Grading Mode

GLY 427 Fossil Fuels **4 Credit hours**
Origin and distribution of coal, oil and gas, and methods of exploration and reserve evaluaton. 3 lec-2 lab. Origin and distribution of coal, oil and gas, and methods of exploration and reserve evaluaton. 3 lec-2 lab.
Pre-req: GLY 200.
Attributes: Natural Sciences
Grade Mode: Normal Grading Mode

GLY 451 Principles Geomorphology **4 Credit hours**
Principles of identification and analysis of the world's surficial features in terms of stratigraphy, structure, processes, tectonics and time. 3 lec. 2 lab. Principles of identification and analysis of the world's surficial features in terms of stratigraphy, structure, processes, tectonics and time. 3 lec. - 2 lab.
Pre-req: GLY 200 and GLY 210L.
Attributes: Natural Sciences
Grade Mode: Normal Grading Mode

GLY 455 Hydrogeology **3 Credit hours**
The properties of water, the hydrologic cycle with emphasis on surface and groundwater processes, the uses, needs and problems associated with water resources. 3 lec. The properties of water, the hydrologic cycle with emphasis on surface and groundwater processes, the uses, needs and problems associated with water resources. 3 lec.
Pre-req: GLY 200 with a minimum grade of D and (MTH 132 with a minimum grade of D or MTH 229 with a minimum grade of D or MTH 229H with a minimum grade of D).
Attributes: Natural Sciences
Grade Mode: Normal Grading Mode

GLY 455L Hydrogeology Laboratory **1 Credit hour**
A two-hour laboratory of practical hydrogeologic problem solving. For non-majors, elective. A two-hour laboratory of practical hydrogeologic problem solving. For non-majors, elective.
Pre-req: GLY 455 (may be taken concurrently) with a minimum grade of D.
Concurrent PR: GLY 455
Attributes: Natural Sciences
Grade Mode: Normal Grading Mode

GLY 456 Environmental Geology **4 Credit hours**
Consideration of risks posed by natural geo-hazards and from physical/chemical contamination of geologic media. (PR: GLY 200, GLY 210L or equivalent; Recommended: GLY 451) Consideration of risks posed by natural geo-hazards and from physical/chemical contamination of geologic media. (PR: GLY 200, GLY 210L or equivalent; Recommended: GLY 451)
Pre-req: GLY 200 with a minimum grade of D and GLY 210L with a minimum grade of D.
Attributes: Natural Sciences
Grade Mode: Normal Grading Mode

GLY 457 Engineering Geology **4 Credit hours**
Consideration of geotechnical problems faced by geologists and engineers. Major topics include mechanics and classification of soil and rock, and geotechnical aspects of groundwater.
Pre-req: GLY 200 with a minimum grade of D and GLY 210L with a minimum grade of D and (MTH 132 with a minimum grade of D or MTH 229 with a minimum grade of D).
Attributes: Natural Sciences
Grade Mode: Normal Grading Mode

GLY 480 Special Topics **1-4 Credit hours**
Attributes: Natural Sciences
Grade Mode: Normal Grading Mode

GLY 481 Special Topics **1-4 Credit hours**
Attributes: Natural Sciences
Grade Mode: Normal Grading Mode

GLY 482 Special Topics **1-4 Credit hours**
Attributes: Natural Sciences
Grade Mode: Normal Grading Mode

GLY 483 Special Topics **1-4 Credit hours**
Attributes: Natural Sciences
Grade Mode: Normal Grading Mode

GLY 485 Independent Study **1-4 Credit hours**
Attributes: No Textbook Required, Natural Sciences
Grade Mode: Normal Grading Mode

GLY 486 Independent Study **1-4 Credit hours**
Attributes: Natural Sciences
Grade Mode: Normal Grading Mode

GLY 487 Independent Study **1-4 Credit hours**
Attributes: Natural Sciences
Grade Mode: Normal Grading Mode

GLY 488 Independent Study **1-4 Credit hours**
Attributes: Natural Sciences
Grade Mode: Normal Grading Mode

GLY 491 Capstone Experience **2-4 Credit hours**
An independent study involving a research project or internship. Must be approved by Geology faculty. (PR: 20 hours of Geology coursework).
Attributes: Capstone Course, Natural Sciences
Grade Mode: Normal Grading Mode

GLY 492 Capstone Experience **2-4 Credit hours**
An independent study involving a research project or internship. Must be approved by Geology faculty. (PR: 20 hours of Geology coursework).
Attributes: Capstone Course, Natural Sciences
Grade Mode: Normal Grading Mode

Faculty

Professors
Caudill, El-Shazly, Martino

Geology, B.A.

Provides a broad foundation for entry level positions in the geosciences or for graduate school.

- General Education Course

- Milestone course: a key success marker for your major. See your advisor to discuss the importance of this course in your plan of study.

Major

Code	Title	Credit Hours
MTH 122 & MTH 130 or MTH 132	Plane Trigonometry and College Algebra Precalculus with Sci Applica	5-6
BSC 120	Principles of Biology I	3
BSC 120L	Principles of Biology I Lab	1
CHM 211 & CHM 217	Principles of Chemistry I and Principles of Chem Lab I	5
CHM 212 & CHM 218	Principles Chemistry II and Principles of Chem Lab II	5
PHY 201 & PHY 202	College Physics I and General Physics I Laboratory	4
GLY 200	The Dynamic Earth	3
GLY 210L	Earth Materials Lab	1

GLY 201 & GLY 211L	The Earth Through Time and Earth Through Time Lab	4
GLY 212	Geologic Field Methods	3
GLY 313	Structural Geology	4
GLY 314	Mineralogy	4
GLY 325	Stratigraphy & Sediment	4
GLY 421 or GLY 423	Igneous& Metamorphic Petrology Sedimentary Petrology	4
GLY 451	Principles Geomorphology	4
GLY 491 or GLY 492	Capstone Experience Capstone Experience	2
GLY Electives (2 additional GLY 300-400 level courses)		8

- General Education Course

- Milestone course: a key success marker for your major. See your advisor to discuss the importance of this course in your plan of study.

Four Year Plan

Course	Title	Credit Hours
First Year		
First Semester		
GLY 200	The Dynamic Earth	3
GLY 210L	Earth Materials Lab	1
ENG 101	Beginning Composition	3
FYS 100	First Yr Sem Critical Thinking	3
MTH 127	College Algebra-Expanded	5
UNI 100	Freshman First Class	1
	Credit Hours	**16**
Second Semester		
GLY 201	The Earth Through Time	3
GLY 211L	Earth Through Time Lab	1
ENG 201	Advanced Composition	3
MTH 132	Precalculus with Sci Applica	5
CMM 103	Fund Speech-Communication	3
	Credit Hours	**15**
Second Year		
First Semester		
CHM 111	Foundations of Chemistry	3
GLY 212	Geologic Field Methods	3
GLY 325	Stratigraphy & Sediment	4
CT-designated course		3
Multicultural or International Course		3
	Credit Hours	**16**
Second Semester		
GLY 313	Structural Geology	4
GLY Elective (427 or 455, 455L)		4
WI Course		3
Core II Fine Art		3
	Credit Hours	**14**
Third Year		
First Semester		
GLY 314	Mineralogy	4
GLY 451	Principles Geomorphology	4
Core II Social Science		3
GLY 423	Sedimentary Petrology (or WI Course)	3-4
	Credit Hours	**14-15**
Second Semester		
GLY 421	Igneous& Metamorphic Petrology	4
GLY 418 or GLY 456	Invertebrate Paleontology or Environmental Geology	4
Free Elective (GEO 426 recommended)		4
Free Elective		3
	Credit Hours	**15**
Fourth Year		
First Semester		
PHY 201	College Physics I	3
PHY 202	General Physics I Laboratory	1
BSC 120	Principles of Biology I	3
BSC 120L	Principles of Biology I Lab	1
GLY 491	Capstone Experience	2
Free Elective (ENG 354 recommended)		3
Free Elective GLY 457 or 420 recommended)		3-4
	Credit Hours	**16-17**
Second Semester		
Core II Humanities		3
Free Elective (GLY 455, 455L recommended)		3
Free Elective		3
Free Elective		3
Free Elective		3
	Credit Hours	**15**
	Total Credit Hours	**121-123**

Geology, B.S.

- General Education Course

- Milestone course: a key success marker for your major. See your advisor to discuss the importance of this course in your plan of study.

major

The Core Curriculum is designed to foster critical thinking skills and introduce students to basic domains of thinking that transcend disciplines. The Core applies to all majors. Information on specific classes in the Core can be found at https://www.marshall.edu/gened/.

Code	Title	Credit Hours
Core Curriculum		
Core 1: Critical Thinking		
FYS 100	First Yr Sem Critical Thinking	3
MTH 229	Calculus/Analytic Geom I (CT)	5
Critical Thinking Course		3
Core 2		

ENG 101	Beginning Composition	3
ENG 201	Advanced Composition	3
CMM 103	Fund Speech-Communication	3
MTH 229	Calculus/Analytic Geom I (CT)	5
Core II Humanities		3
Core II Social Science		3
Core II Fine Arts		3
GLY 200 & GLY 210L	The Dynamic Earth and Earth Materials Lab	4
Additional University Requirements		
Writing Intensive		3
Writing Intensive		3
Multicultural or International		3
GLY 491	Capstone Experience	2-4
Major-Specific		
GLY 200	The Dynamic Earth	3
GLY 210L	Earth Materials Lab	1
GLY 201	The Earth Through Time	3
GLY 211L	Earth Through Time Lab	1
GLY 212	Geologic Field Methods	3
GLY 313	Structural Geology	4
GLY 314	Mineralogy	4
GLY 320L	Geology Lab Techniques	2
GLY 325	Stratigraphy & Sediment	4
GLY 418 or GLY 426	Invertebrate Paleontology Geophysics	3-4
GLY 420	Principles of Geochemistry	3
GLY 421 or GLY 423	Igneous& Metamorphic Petrology Sedimentary Petrology	4
GLY 455	Hydrogeology	3
GLY 455L	Hydrogeology Laboratory	1
GLY 457	Engineering Geology	4
GLY 491 or GLY 492	Capstone Experience Capstone Experience	2-4
CHM 211	Principles of Chemistry I	3
CHM 217	Principles of Chem Lab I	2
GLY Elective		4
GLY Elective		4
GLY Elective		3
PHY 201	College Physics I	3
PHY 202	General Physics I Laboratory	1
MTH 229	Calculus/Analytic Geom I (CT)	5
Free Elective		3
Free Elective		3
Free Elective		3
Free Elective		3
Free Elective		3
Free Elective		1

Major Information

- Students are strongly encouraged to select courses that meet two or more Core or College requirements. For example, a writing intensive literature course could satisfy the College of Science literature requirement as well as the Core II writing intensive requirement.
- Course offerings and course attributes are subject to change semesters. Please consult each semesters schedule of courses for availability and attributes.
- MTH 229 Calculus/Analytic Geom I (CT) is based on an ACT Mathematics score of 27 or higher. Students with an ACT Mathematics score less than 27 will be placed in the appropriate mathematics and science courses.
- The capstone experience (GLY 491 Capstone Experience) is an individualized research project or internship experience requiring a written report and an oral presentation. The capstone requirement may be met alternatively by attending geology summer field camp or by completing the capstone seminar offered each spring (GLY 492 Capstone Experience).

Areas of Emphasis

- Engineering Geology, Emphasis (p. 621)
- Environmental Geoscience, Emphasis (p. 623)

- General Education Course

- Milestone course: a key success marker for your major. See your advisor to discuss the importance of this course in your plan of study.

Four Year Plan

Programs of study offered by the Department of Geology are designed for individuals seeking a career as an earth scientist. The greatest number of geologists are employed by natural resource industries. These include metallic and nonmetallic mining companies as well as petroleum, natural gas, and coal companies. New and challenging careers are also available in environmental and engineering geology. The majority of graduates in the past few years have found employment with environmental and geotechnical companies.

Course	Title	Credit Hours
First Year		
First Semester		
GLY 200	The Dynamic Earth	3
GLY 210L	Earth Materials Lab	1
ENG 101	Beginning Composition	3
FYS 100	First Yr Sem Critical Thinking	3
MTH 229	Calculus/Analytic Geom I (CT)	5
UNI 100	Freshman First Class	1
	Credit Hours	**16**
Second Semester		
GLY 201	The Earth Through Time	3
GLY 211L	Earth Through Time Lab	1
ENG 201	Advanced Composition	3
Core II Fine Arts		3
CMM 103	Fund Speech-Communication	3

Multicultural or International		3
	Credit Hours	**16**
Second Year		
First Semester		
CHM 211	Principles of Chemistry I	3
CHM 217	Principles of Chem Lab I	2
GLY 212	Geologic Field Methods	3
GLY 325	Stratigraphy & Sediment	4
CT Designated Course		3
	Credit Hours	**15**
Second Semester		
GLY 313	Structural Geology	4
GLY Elective		4
GLY 427	Fossil Fuels (recommended)	
Writing Intensive		3
Free Elective		3
	Credit Hours	**14**
Third Year		
First Semester		
GLY 314	Mineralogy	4
Core II Social Science		3
Writing Intensive		3
GLY Elective		3-4
GLY 330 or GLY 451	Tectonics or Principles Geomorphology	
	Credit Hours	**13-14**
Second Semester		
GLY 418 or GLY 426	Invertebrate Paleontology or Geophysics	3-4
GLY 421 or GLY 423	Igneous& Metamorphic Petrology or Sedimentary Petrology	4
GLY Elective		4
GLY 456	Environmental Geology (recommended)	
Free Elective		4
	Credit Hours	**15-16**
Fourth Year		
First Semester		
PHY 202	General Physics I Laboratory	1
PHY 201	College Physics I	3
GLY 491	Capstone Experience	2-4
GLY 320L	Geology Lab Techniques	2
GLY 457	Engineering Geology	4
Free Elective		3
	Credit Hours	**15-17**
Second Semester		
GLY 455	Hydrogeology	3
GLY 455L	Hydrogeology Laboratory	1
GLY 420	Principles of Geochemistry	3
Core II Humanities		3
Free Elective		3
Free Elective		3
	Credit Hours	**16**
	Total Credit Hours	**120-124**

Engineering Geology, Emphasis

- General Education Course

- Milestone course: a key success marker for your major. See your advisor to discuss the importance of this course in your plan of study.

Major

The Core Curriculum is designed to foster critical thinking skills and introduce students to basic domains of thinking that transcend disciplines. The Core applies to all majors. Information on specific classes in the Core can be found at https://www.marshall.edu/gened/.

Code	Title	Credit Hours
Core Curriculum		
Core 1: Critical Thinking		
FYS 100	First Yr Sem Critical Thinking	3
MTH 229	Calculus/Analytic Geom I (CT)	5
Critical Thinking Course		3
Core 2		
ENG 101	Beginning Composition	3
ENG 201	Advanced Composition	3
CMM 103	Fund Speech-Communication	3
MTH 229	Calculus/Analytic Geom I (CT)	5
Core II Humanities		3
Core II Social Science		3
Core II Fine Arts		3
GLY 200 & GLY 210L	The Dynamic Earth and Earth Materials Lab	4
Additional University Requirements		
Writing Intensive		3
Writing Intensive		3
Multicultural or International		3
GLY 491	Capstone Experience	2-4
Major-Specific		
GLY 200	The Dynamic Earth	3
GLY 210L	Earth Materials Lab	1
GLY 201	The Earth Through Time	3
GLY 211L	Earth Through Time Lab	1
MTH 230	Calculus/Analytic Geom II	4
CHM 211	Principles of Chemistry I	3
CHM 217	Principles of Chem Lab I	2
GLY 212	Geologic Field Methods	3
GLY 325	Stratigraphy & Sediment	4
GLY 314	Mineralogy	4
GLY 313	Structural Geology	4
GLY 320L	Geology Lab Techniques	2

GLY 330 or GLY 426	Tectonics or Geophysics	3
ENG 354	Scientific & Tech Writing	3
ENGR 111	Engineering Computations	3
ENGR 213	Statics	3
ENGR 216	Mech of Deformable Bodies	3
CE 322	Geotechnical Engineering	4
GLY 451	Principles Geomorphology	4
GLY 455	Hydrogeology	3
PHY 211	University Physics I	4
PHY 202	General Physics I Laboratory	1
PHY 213	University Physics II	4
PHY 204	General Physics 2 Laboratory	1
GLY 456	Environmental Geology	4
GLY 457	Engineering Geology	4
GLY 420	Principles of Geochemistry	3
GLY 455L	Hydrogeology Laboratory	1
GLY 491	Capstone Experience	2-4

Major Information

- Students are strongly encouraged to select courses that meet two or more Core or College requirements. For example, a writing intensive literature course could satisfy the College of Science literature requirement as well as the Core II writing intensive requirement.
- Course offerings and course attributes are subject to change each semester. Please consult each semester's schedule of courses for availability and attributes.
- Math is based on an ACT Mathematics score of 27 or higher. Students with an ACT Mathematics score less than 27 will be placed in the appropriate mathematics and science courses.
- The capstone experience (GLY 491 Capstone Experience) (Fall semester) is an individualized research project or internship experience requiring a written report and an oral presentation. The capstone requirement may be met alternatively by attending geology summer field camp or by completing the capstone seminar offered on demand in the spring semesters (GLY 492 Capstone Experience).

- General Education Course

- Milestone course: a key success marker for your major. See your advisor to discuss the importance of this course in your plan of study.

Four Year Plan

Programs of study offered by the Department of Geology are designed for individuals seeking a career as an earth scientist. The greatest number of geologists are employed by natural resource industries. These include metallic and nonmetallic mining companies as well as petroleum, natural gas, and coal companies. This area of specialization has its own specific curriculum and has been added to meet the increasing demand for geoscientists who are trained in the acquisition, interpretation, and use of earth materials (rock, soil, ground water) for the solution of engineering problems. The program provides geologists with specific training that will enable them to effectively interact with, and support, engineers. Its curriculum involves a heavy emphasis on math, physics, and engineering.

Course	Title	Credit Hours
First Year		
First Semester		
GLY 200	The Dynamic Earth	3
GLY 210L	Earth Materials Lab	1
ENG 101	Beginning Composition	3
MTH 229	Calculus/Analytic Geom I (CT)	5
ENGR 111	Engineering Computations	3
UNI 100	Freshman First Class	1
	Credit Hours	**16**
Second Semester		
GLY 201	The Earth Through Time	3
GLY 211L	Earth Through Time Lab	1
MTH 230	Calculus/Analytic Geom II	4
Core II Fine Arts		3
FYS 100	First Yr Sem Critical Thinking	3
	Credit Hours	**14**
Second Year		
First Semester		
CHM 211	Principles of Chemistry I	3
CHM 217	Principles of Chem Lab I	2
GLY 212	Geologic Field Methods	3
GLY 325	Stratigraphy & Sediment	4
ENG 201	Advanced Composition	3
	Credit Hours	**15**
Second Semester		
GLY 330 or GLY 426	Tectonics or Geophysics	3
GLY 313	Structural Geology	4
ENG 354	Scientific & Tech Writing	3
Multicultural/International		3
Writing Intensive		3
	Credit Hours	**16**
Third Year		
First Semester		
GLY 314	Mineralogy	4
GLY 451	Principles Geomorphology	4
Core II Social Science (CT)		3
Writing Intensive		3
	Credit Hours	**14**
Second Semester		
GLY 456	Environmental Geology	4
ENGR 213	Statics	3
CMM 103	Fund Speech-Communication	3
Core II Humanities		3
GLY 420	Principles of Geochemistry	3
	Credit Hours	**16**
Fourth Year		
First Semester		
ENGR 216	Mech of Deformable Bodies	3

PHY 202	General Physics I Laboratory	1
PHY 211	University Physics I	4
GLY 491	Capstone Experience	2
GLY 320L	Geology Lab Techniques	2
GLY 457	Engineering Geology	4
	Credit Hours	**16**
Second Semester		
PHY 213	University Physics II	4
PHY 204	General Physics 2 Laboratory	1
GLY 455	Hydrogeology	3
GLY 455L	Hydrogeology Laboratory	1
CE 322	Geotechnical Engineering	4
	Credit Hours	**13**
	Total Credit Hours	**120**

Environmental Geoscience, Emphasis

- General Education Course

- Milestone course: a key success marker for your major. See your advisor to discuss the importance of this course in your plan of study.

Major

The Core Curriculum is designed to foster critical thinking skills and introduce students to basic domains of thinking that transcend disciplines. The Core applies to all majors. Information on specific classes in the Core can be found at https://www.marshall.edu/gened/.

Code	Title	Credit Hours
Core Curriculum		
Core 1: Critical Thinking		
FYS 100	First Yr Sem Critical Thinking	3
MTH 229	Calculus/Analytic Geom I (CT)	5
Critical Thinking Course		3
Core 2		
ENG 101	Beginning Composition	3
ENG 201	Advanced Composition	3
CMM 103	Fund Speech-Communication	3
MTH 229	Calculus/Analytic Geom I (CT)	5
Core II Humanities		3
Core II Social Science		3
Core II Fine Arts		3
CHM 211 & CHM 217	Principles of Chemistry I and Principles of Chem Lab I	5
Additional University Requirements		
Writing Intensive		3
Writing Intensive		3
Multicultural or International		3
GLY 491	Capstone Experience	2
Major-Specific		
GLY 200	The Dynamic Earth	3
GLY 210L	Earth Materials Lab	1
GLY 201	The Earth Through Time	3
GLY 211L	Earth Through Time Lab	1
GLY 212	Geologic Field Methods	3
GLY 313	Structural Geology	4
GLY 314	Mineralogy	4
GLY 320L	Geology Lab Techniques	2
GLY 325	Stratigraphy & Sediment	4
GLY 420	Principles of Geochemistry	3
GLY 423	Sedimentary Petrology	4
GLY 426	Geophysics	3
GLY 455	Hydrogeology	3
GLY 455L	Hydrogeology Laboratory	1
GLY 456	Environmental Geology	4
GLY 457	Engineering Geology	4
GLY 491	Capstone Experience	2
MTH 229	Calculus/Analytic Geom I (CT)	5
CHM 211	Principles of Chemistry I	3
CHM 217	Principles of Chem Lab I	2
PHY 201	College Physics I	3
PHY 202	General Physics I Laboratory	1
PS 410	Remote Sensing w Applications	4
ENG 354	Scientific & Tech Writing	3
GEO 222	Global Environment Issues (CT)	3
GEO 429	Location Analysis and GIS	4
Free Elective		3
Free Elective		3
Free Elective		2
Free Elective		1

Major Information

- Students are strongly encouraged to select courses that meet two or more Core or College requirements. For example, a writing intensive literature course could satisfy the College of Science literature requirement as well as the Core II writing intensive requirement.
- Course offerings and course attributes are subject to change semesters. Please consult each semesters schedule of courses for availability and attributes.
- Math is based on an ACT Mathematics score of 27 or higher. Students with an ACT Mathematics score less than 27 will be placed in the appropriate mathematics and science courses.
- The capstone experience (GLY 491 Capstone Experience) is an individualized research project or internship experience requiring a written report and an oral presentation. The capstone requirement may be met alternatively by attending geology summer field camp or by completing the capstone seminar offered each spring (GLY 492 Capstone Experience).

- General Education Course

- Milestone course: a key success marker for your major. See your advisor to discuss the importance of this course in your plan of study.

Four Year Plan

Programs of study offered by the Department of Geology are designed for individuals seeking a career as an earth scientist. The greatest numbers of geologists are employed by natural resource industries. These include metallic and nonmetallic mining companies as well as petroleum, natural gas, and coal companies. This area of emphasis utilizes an interdisciplinary curriculum, which will prepare graduates for careers involving the application of geologic concepts to the solution of environmental problems.

Course	Title	Credit Hours
First Year		
First Semester		
GLY 200	The Dynamic Earth	3
GLY 210L	Earth Materials Lab	1
ENG 101	Beginning Composition	3
FYS 100	First Yr Sem Critical Thinking	3
MTH 229	Calculus/Analytic Geom I (CT)	5
UNI 100	Freshman First Class	1
	Credit Hours	**16**
Second Semester		
GLY 201	The Earth Through Time	3
GLY 211L	Earth Through Time Lab	1
CT Designated Course		3
Core II Fine Arts		3
Multicultural/International		3
Free Elective		1
	Credit Hours	**14**
Second Year		
First Semester		
CHM 211	Principles of Chemistry I	3
CHM 217	Principles of Chem Lab I	2
GLY 212	Geologic Field Methods	3
GLY 325	Stratigraphy & Sediment	4
ENG 201	Advanced Composition	3
	Credit Hours	**15**
Second Semester		
ENG 354	Scientific & Tech Writing	3
GLY 313	Structural Geology	4
PS 410	Remote Sensing w Applications	4
Writing Intensive		3
Free Elective		3
	Credit Hours	**17**
Third Year		
First Semester		
GLY 320L	Geology Lab Techniques	2
GLY 314	Mineralogy	4
PHY 201	College Physics I	3
PHY 202	General Physics I Laboratory	1
GLY 423	Sedimentary Petrology	4
Core II: Social Science		3
	Credit Hours	**17**
Second Semester		
CMM 103	Fund Speech-Communication	3
GLY 420	Principles of Geochemistry	3
GLY 456	Environmental Geology	4
GLY 426	Geophysics	3
	Credit Hours	**13**
Fourth Year		
First Semester		
GLY 491	Capstone Experience	2
GLY 457	Engineering Geology	4
Core II: Humanities		3
Free Elective		3
Free Elective		2
	Credit Hours	**14**
Second Semester		
GEO 429	Location Analysis and GIS	4
Writing Intensive		3
GEO 222	Global Environment Issues (CT)	3
GLY 455	Hydrogeology	3
GLY 455L	Hydrogeology Laboratory	1
	Credit Hours	**14**
	Total Credit Hours	**120**

Geology, Minor

A minor in Geology requires 12 hours of Geology coursework with at least a *C* average. At least 8 hours must be in courses at the 300-400 level.

Department of Mathematics

Contacts: Dr. Alfred Akinsete, Chair
Website: http://www.marshall.edu/math/

math@marshall.edu

The Department of Mathematics offers two majors, Mathematics and Statistics, leading to the Bachelor of Science degree. These majors prepare students for a vast variety of careers in the mathematical sciences and in numerous related disciplines. Graduating students will have a solid foundation that enables them to perform successfully in industry, business, government, and further studies. Graduates may pursue advanced degrees in mathematics, applied mathematics, statistics, and related areas such as engineering, actuarial science, data science, and economics. They may also prepare for secondary mathematics certification or for professional degree programs such as law and medicine.

Students with an interest in mathematics should consult sites on the internet hosted by the Mathematical Association of America (www.maa.org (http://www.maa.org)), the American Mathematical Society such as www.ams.org/employment (http://www.ams.org/employment/) and www.maa.org/students/undergrad/career.html (http://www.maa.org/students/undergrad/career.html), and the

Society of Industrial and Applied Mathematics (SIAM) at www.siam.org (http://www.siam.org). Those interested in statistics may consult the American Statistical Association website at www.amstat.org (http://www.amstat.org).

Mathematics serves as an essential tool for many other majors, and it plays an important role in the general education of all students. The Department of Mathematics at Marshall University makes every effort to help students learn valuable critical thinking and problem-solving skills.

Majors must fulfill the general and specific requirements for the B.S. degree in the College of Science except for the minor (see requirements that follow). Students should go to the College of Science Dean's Office, Science 270, in order to declare a minor or major.

Transfer Students

Transfer students must take at least 12 hours of 300/400 level coursework in the College of Science and at least 15 hours in their major field, including at least nine hours of 300-400 level coursework at Marshall University.

General Education and Placement

The American College Test (ACT) score in Mathematics (or equivalent SAT) is utilized for the placement of students. Relevant information regarding such placement is included under prerequisites in the Courses of Instruction. Students wishing to challenge their placement in a mathematics course may do so by taking the Accuplacer Placement Exam administered by University College.

Students with prior credit for any college algebra course (i.e., MTH 127 College Algebra-Expanded, MTH 130 College Algebra, or MTH 132 Precalculus with Sci Applica) may not receive credit for any other of these courses.

A student enrolled at Marshall may receive credit for certain courses in mathematics by successfully completing the appropriate examination of the College Level Examination Program (CLEP).

Advanced placement in mathematics is granted on the basis of Educational Testing Service Advanced Placement Test scores.

On the Calculus AB Examination:

- A score of 3 on AB provides students credit for MTH 132 Precalculus with Sci Applica.
- A score of 4 or 5 on AB provides students credit for MTH 130 College Algebra and MTH 229 Calculus/Analytic Geom I (CT).

On the Calculus BC examination:

- A score of 3 on BC provides credit for MTH 229 Calculus/Analytic Geom I (CT).
- A score of 4 or 5 on BC provides credit for MTH 229 Calculus/Analytic Geom I (CT) and MTH 230 Calculus/Analytic Geom II.

Programs

- Mathematics, B.S. (p. 630)
- Mathematics, Minor (p. 632)
- Mathematics, Teacher Certification (p. 632)
- Statistics, B.S. (p. 632)
- Statistics, Minor (p. 633)

Courses

- General Education Course

Mathematics

MTH 102 Prep for College Math B **4 Credit hours**
A mastery-based course that will prepare students for college algebra.
Grade Mode: Normal Grading Mode

MTH 102B Abr Prep for College Math B **1 Credit hour**
An abridged mastery-based course that will prepare students for College Algebra.
Pre-req: MTH 098 with a minimum grade of CR or MTH 100 or MTH 121B or MTH 121 or Placement Math After SP17 with a score of 100.
Grade Mode: Normal Grading Mode

MTH 121 Concepts and Applications (CT) **3 Credit hours**
Critical thinking course for non-science majors that develops quantitative reasoning skills. Topics include logical thinking, problem-solving, linear modeling, beginning statistics and probability, exponential and logarithmic models, formula use, and financial concepts. Critical thinking course for non-science majors that develops quantitative reasoning skills. Topics include logical thinking, problem-solving, linear modeling, beginning statistics and probability, exponential and logarithmic models, formula use, and financial concepts.
Pre-req: ACT Math with a score of 19 or SAT Mathematics Before Mar. 16 with a score of 460 or MTH 0XX or Placement Math with a score of 100 or Placement Math After SP17 with a score of 101 or Placement Math SP20 with a score of 241 or Math Workshop-UC with a score of 100 or WMTH 002 with a minimum grade of C or MTH 099 with a minimum grade of CR or MTH 102 with a minimum grade of C or MTH 100 with a minimum grade of C or MTH 102B with a minimum grade of C or SAT MATH SECTION SCORE with a score of 510.
Attributes: Critical Thinking, Core II Mathematics
Grade Mode: Normal Grading Mode

MTH 121B Cncpts & Apps-Expanded (CT) **4 Credit hours**
Critical thinking course for non-science majors that develops quantitative reasoning skills. Topics include logical thinking, linear modeling, statistics and probability, exponential and logarithmic modeling, and financial concepts, with arithmetic review.
Attributes: Critical Thinking, Core II Mathematics
Grade Mode: Normal Grading Mode

MTH 121H Concepts and Applications **3 Credit hours**
Pre-req: ACT Math with a score of 23 or SAT Mathematics Before Mar. 16 with a score of 540.
Attributes: Honors
Grade Mode: Normal Grading Mode

MTH 122 Plane Trigonometry **3 Credit hours**
Definitions of circular functions; graphs of the trigonometric functions, trigonometric identities, and applications.
Pre-req: ACT Math with a score of 22 or SAT Mathematics Before Mar. 16 with a score of 520 or SAT MATH SECTION SCORE with a score of 540 or Placement Math After SP17 with a score of 103 or Placement Math SP20 with a score of 257 or MTH 127 with a minimum grade of C or MTH 130 (may be taken concurrently) with a minimum grade of C.
Concurrent PR: MTH 130
Attributes: Core II Mathematics
Grade Mode: Normal Grading Mode

MTH 127 College Algebra-Expanded **5 Credit hours**
A brief but careful review of the main techniques of algebra. Polynomials, rational, exponential, and logarithmic functions. Graphs, equations and inequalities, sequences.
Pre-req: ACT Math with a score of 17 or SAT Mathematics Before Mar. 16 with a score of 400 or SAT MATH SECTION SCORE with a score of 460 or Placement Math After SP17 with a score of 101 or Placement Math SP20 with a score of 237 or MTH 0XX or Placement Math with a score of 100 or Math Workshop-UC with a score of 100 or WMTH 002 or MTH 099 with a minimum grade of CR or MTH 102 with a minimum grade of C or MTH 102B with a minimum grade of C.
Attributes: Core II Mathematics
Grade Mode: Normal Grading Mode

MTH 130 College Algebra **3 Credit hours**
Polynomial, rational, exponential, and logarithmic functions. Graphs, equations and inequalities, sequences.
Pre-req: ACT Math with a score of 21 or SAT Mathematics Before Mar. 16 with a score of 500 or SAT MATH SECTION SCORE with a score of 530 or Placement Math After SP17 with a score of 102 or Placement Math SP20 with a score of 250.
Attributes: Core II Mathematics
Grade Mode: Normal Grading Mode

MTH 132 Precalculus with Sci Applica **5 Credit hours**
Functions used in calculus including polynomial, rational, exponential, logarithmic, and trigonometric. Systems of equations and inequalities, conic sections, polar and parametric equations, sequences and series, Binomial Theorem. Functions used in calculus including polynomial, rational, exponential, logarithmic, and trigonometric. Systems of equations and inequalities, conic sections, polar and parametric equations, sequences and series, Binomial Theorem.
Pre-req: ACT Math with a score of 24 or SAT Mathematics Before Mar. 16 with a score of 560 or SAT MATH SECTION SCORE with a score of 570 or Placement Math After SP17 with a score of 104 or Placement Math SP20 with a score of 263 or MTH 127 with a minimum grade of C or MTH 130 with a minimum grade of C.
Attributes: Core II Mathematics
Grade Mode: Normal Grading Mode

MTH 140 Applied Calculus **3 Credit hours**
A brief survey of calculus including both differentiation and integration with applications.
Pre-req: ACT Math with a score of 24 or SAT Mathematics Before Mar. 16 with a score of 560 or SAT MATH SECTION SCORE with a score of 570 or Placement Math After SP17 with a score of 104 or Placement Math SP20 with a score of 263 or MTH 127 with a minimum grade of C or MTH 130E with a minimum grade of C or MTH 130 with a minimum grade of C or MTH 130H with a minimum grade of C or MTH 132 with a minimum grade of C.
Attributes: Core II Mathematics
Grade Mode: Normal Grading Mode

MTH 140H Applied Calculus Honors **3 Credit hours**
A brief survey of calculus including both differentiation and integration with applications. This honors course will also introduce topics from differential equations with applications.
Pre-req: ACT Math with a score of 24 or SAT Mathematics Before Mar. 16 with a score of 560 or SAT MATH SECTION SCORE with a score of 570.
Attributes: Honors, Core II Mathematics
Grade Mode: Normal Grading Mode

MTH 160 Applied Math Reasoning (CT) **5 Credit hours**
A critical thinking course in applied mathematical reasoning. Topics include logic, problem solving, linear modeling, beginning statistics and probability, exponential and logarithmic modeling, formula use.
Pre-req: SAT Mathematics Before Mar. 16 with a score of 400 or ACT Math with a score of 17 or SAT MATH SECTION SCORE with a score of 460 or Placement Math After SP17 with a score of 101 or Placement Math SP20 with a score of 237 or MTH 099 with a minimum grade of CR or MTH 102 with a minimum grade of C or MTH 102B with a minimum grade of C or MTH 127 with a minimum grade of C.
Attributes: Critical Thinking, Core II Mathematics
Grade Mode: Normal Grading Mode

MTH 220 Discrete Structures **3 Credit hours**
Sets, relations, directed and undirected graphs, monoids, groups, lattices, Boolean algebra, and propositional logic.
Pre-req: ACT Math with a score of 27 or SAT Mathematics Before Mar. 16 with a score of 610 or SAT MATH SECTION SCORE with a score of 630 or Placement Math After SP17 with a score of 105 or Placement Math SP20 with a score of 276 or MTH 132 with a minimum grade of C or MTH 140 with a minimum grade of C or MTH 229 with a minimum grade of C or MTH 229H with a minimum grade of C.
Attributes: Core II Mathematics
Grade Mode: Normal Grading Mode

MTH 229 Calculus/Analytic Geom I (CT) **5 Credit hours**
An introduction to calculus and analytic geometry, emphasizing critical thinking. Limits, derivatives, and integrals of the elementary functions of one variable, including transcendental functions.
Pre-req: ACT Math with a score of 27 or SAT Mathematics Before Mar. 16 with a score of 610 or SAT MATH SECTION SCORE with a score of 630 or Placement Math After SP17 with a score of 105 or Placement Math SP20 with a score of 276 or MTH 132 with a minimum grade of C.
Attributes: Critical Thinking, Core II Mathematics
Grade Mode: Normal Grading Mode

MTH 229H Calculus I Honors (CT) **5 Credit hours**
An introduction to calculus and analytic geometry for honors students, emphasizing critical thinking. Limits, derivatives, and integrals of the elementary functions of one variable, including transcendental functions.
Pre-req: ACT Math with a score of 27 or SAT Mathematics Before Mar. 16 with a score of 610 or SAT MATH SECTION SCORE with a score of 630.
Attributes: Critical Thinking, Core II Mathematics
Grade Mode: Normal Grading Mode

MTH 230 Calculus/Analytic Geom II **4 Credit hours**
A study of the conics and transcendental functions, techniques of integration, improper integrals, indeterminate forms and infinite series.
Pre-req: MTH 229 with a minimum grade of C or MTH 229H with a minimum grade of C.
Attributes: Core II Mathematics
Grade Mode: Normal Grading Mode

MTH 231 Calculus/Analytic Geom III **4 Credit hours**
Analytic geometry of two and three dimensions, partial differentiation, and multiple integrals. Analytic geometry of two and three dimensions, partial dif- ferentiation, and multiple integrals.
Pre-req: MTH 230 with a minimum grade of C.
Attributes: Core II Mathematics
Grade Mode: Normal Grading Mode

MTH 300 Intro to Higher Math **4 Credit hours**
A transition between elementary calculus and higher mathematics with emphasis on techniques of proofs.
Pre-req: MTH 230 with a minimum grade of C.
Attributes: Mathematics
Grade Mode: Normal Grading Mode

MTH 329 Elementary Linear Algebra **3 Credit hours**
Systems of linear equations, matrices and determinants, vector spaces, linear transformations, eigenvalues, eigenvectors, and applications. Systems of linear equations, matrices and determinants, vector spaces, linear transformations, eigenvalues, eigenvectors, and applications.
Pre-req: MTH 229 with a minimum grade of C or MTH 229H with a minimum grade of C.
Attributes: Mathematics
Grade Mode: Normal Grading Mode

MTH 331 Linear Algebra **4 Credit hours**
Vector spaces, matrices and determinants, linear transformations, eigenvalues and eigenvectors, and applications.
Pre-req: MTH 300 (may be taken concurrently) with a minimum grade of C.
Concurrent PR: MTH 300
Attributes: Mathematics
Grade Mode: Normal Grading Mode

MTH 335 Ordinary Diff Equations **3 Credit hours**
A study of differential equations, their solutions, and applications to physical systems, emphasizing closed-form solving methods. Laplace transforms, orthogonal functions, approximation and numerical methods with applications.
Pre-req: MTH 230 with a minimum grade of C.
Attributes: Mathematics
Grade Mode: Normal Grading Mode

MTH 360 Intro to Complex Variables **3 Credit hours**
An introductory survey of complex numbers, analytic functions, properties of elementary functions, integrals, series, residues and poles, with a focus on practical applications.
Pre-req: MTH 231 with a minimum grade of C.
Attributes: Mathematics
Grade Mode: Normal Grading Mode

MTH 361 Vector Calculus **3 Credit hours**
A course in n-dimensional calculus: the derivative, the integral, and applications. Coordinate-free methods are emphasized.
Pre-req: MTH 231 with a minimum grade of C.
Attributes: Mathematics
Grade Mode: Normal Grading Mode

MTH 400 Structure of Algebra **3 Credit hours**
Emphasis on the language of Modern Elementary Algebra. Recommended for pre-service elementary teachers and for elementary and secondary in-service teachers. May not be used for either a degree offered by the Department of Mathematics or for a 7-9 or 7-12 mathematics specialization. Emphasis on the language of Modern Elementary Algebra. Recommended for pre-service elementary teachers and for elementary and secondary in-service teachers. May not be used for either a degree offered by the Department of Mathematics or for a 7-9 or 7-12 mathematics specialization.
Pre-req: MTH 130 with a minimum grade of C.
Attributes: Mathematics
Grade Mode: Normal Grading Mode

MTH 401 Structure Modern Geometry **3 Credit hours**
Informal development of geometry. Recommended for preservice elementary teachers and for elementary and secondary inservice teachers. May not be used for either a degree offered by the Department of Mathematics or for a 7-9 or 7-12 mathematics specialization.
Pre-req: MTH 130 with a minimum grade of C or MTH 127 with a minimum grade of C.
Attributes: Mathematics
Grade Mode: Normal Grading Mode

MTH 404 Math Methods and Materials **3 Credit hours**
Content and content-specific pedagogy for secondary mathematics education majors. Content and content-specific pedagogy for secondary mathematics education majors.
Pre-req: Admitted to Teacher ED with a score of 5.
Co-req: CI 470
Attributes: Mathematics
Grade Mode: Normal Grading Mode

MTH 405 History of Mathematics **3 Credit hours**
A study of the history of mathematics from the time of the ancient Greeks to the end of the nineteenth century. A study of the history of mathematics from the time of the ancient Greeks to the end of the nineteenth century.
Pre-req: MTH 300 with a minimum grade of C.
Attributes: Mathematics
Grade Mode: Normal Grading Mode

MTH 411 Mathematical Modeling **3 Credit hours**
Students work in teams to construct mathematical models of various real-world situations. Problems to be modeled are drawn from diverse areas of application and use a wide range of undergraduate mathematics. Students work in teams to construct mathematical models of various real-world situations. Problems to be modeled are drawn from diverse areas of application and use a wide range of undergraduate mathematics.
Pre-req: MTH 231 with a minimum grade of C.
Attributes: Mathematics
Grade Mode: Normal Grading Mode

MTH 415 Partial Differential Equations **3 Credit hours**
Differential equations. Heat Equation, Laplace's Equation, separation of variables, Fourier series, vibrating strings, eigenvalue problems, finite differences, Bessel functions, Legendre polynomials. Differential equations. Heat Equation, Laplace's Equation, separation of variables, Fourier series, vibrating strings, eigenvalue problems, finite differences, Bessel functions, Legendre polynomials.
Pre-req: MTH 331 with a minimum grade of C and MTH 335 with a minimum grade of C.
Attributes: Mathematics
Grade Mode: Normal Grading Mode

MTH 416 Advanced Differential Equation **3 Credit hours**
Differential equations are studied qualitatively. Topics include the existence and uniqueness of solutions and the behavior of solutions including stability of nonlinear systems, periodic solutions, and approximation using pertubation methods. Differential equations are studied qualitatively. Topics include the existence and uniqueness of solutions and the behavior of solutions including stability of nonlinear systems, periodic solutions, and approximation using pertubation methods.
Pre-req: MTH 300 and MTH 335.
Attributes: Mathematics
Grade Mode: Normal Grading Mode

MTH 427 Advanced Calculus I **3 Credit hours**
The number system, limits, sequences, partial differentiation with applications, maxima and minima of functions of several variables. Theory of definite integrals, multiple integrals, line and surface integrals, improper integrals, infinite series.
Pre-req: MTH 231 with a minimum grade of C and MTH 300 with a minimum grade of C.
Attributes: Mathematics
Grade Mode: Normal Grading Mode

MTH 428 Advanced Calculus II **3 Credit hours**
The number system, limits, sequences, partial differentiation with applications, maxima and minima of functions of several variables. Theory of definite integrals, multiple integrals, line and surface integrals, improper integrals, infinite series.
Pre-req: MTH 427 with a minimum grade of C.
Attributes: Mathematics
Grade Mode: Normal Grading Mode

MTH 430 Topology I **3 Credit hours**
First course in topology. Basics of point-set topology: metric and topological spaces, continuity, connectedness, compactness, products, quotients. Surfaces and simplicial complexes, Euler characteristics.
Pre-req: MTH 300 with a minimum grade of C.
Attributes: Mathematics
Grade Mode: Normal Grading Mode

MTH 431 Topology II **3 Credit hours**
First course in algebraic topology. Homotopy, fundamental group, simplicial homology.
Pre-req: MTH 430 with a minimum grade of C and MTH 450 with a minimum grade of C.
Attributes: Mathematics
Grade Mode: Normal Grading Mode

MTH 440 Graph Th and Combinatorics **3 Credit hours**
This course is designed to introduce students in mathematical sciences to the theorems, techniques, and applications of graph theory and combinatorics. This course is designed to introduce students in mathematical sciences to the theorems, techniques, and applications of graph theory and combinatorics.
Pre-req: MTH 300 with a minimum grade of C.
Attributes: Mathematics
Grade Mode: Normal Grading Mode

MTH 442 Numerical Linear Algebra **3 Credit hours**
Direct and iterative methods for numerical solution of linear systems of equations. Eigenvalues and eigenvectors. Error Analysis and norms. Related topics.
Pre-req: MTH 331 with a minimum grade of C.
Attributes: Mathematics
Grade Mode: Normal Grading Mode

MTH 443 Numerical Analysis **3 Credit hours**
The theory and technique of numerical computation involving the difference calculus, the summation calculus, interpolation methods, solution of systems of equations, and methods of solution of ordinary differential equations.
Pre-req: MTH 331 with a minimum grade of C.
Attributes: Mathematics
Grade Mode: Normal Grading Mode

MTH 448 Modern Geometries **3 Credit hours**
Finite geometrics, basic background material for the modern development of Euclidean Geometry, other geometries. Finite geometrics, basic background material for the modern development of Euclidean Geometry, other geometries.
Pre-req: MTH 300 with a minimum grade of C.
Attributes: Mathematics
Grade Mode: Normal Grading Mode

MTH 449 Projective Geometry **3 Credit hours**
Projective Geometry using both synthetic and algebraic methods. Projective Geometry using both synthetic and algebraic methods.
Pre-req: MTH 300 with a minimum grade of C.
Attributes: Mathematics
Grade Mode: Normal Grading Mode

MTH 450 Modern Algebra I **3 Credit hours**
Structure of the abstract mathematical systems; groups, rings, fields, with illustrations and applications from number theory.
Pre-req: MTH 300 with a minimum grade of C and MTH 331 (may be taken concurrently) with a minimum grade of C.
Concurrent PR: MTH 331
Attributes: Mathematics
Grade Mode: Normal Grading Mode

MTH 452 Modern Algebra II **3 Credit hours**
Continuation of MTH 450.
Pre-req: MTH 450 with a minimum grade of C.
Attributes: Mathematics
Grade Mode: Normal Grading Mode

MTH 455 Number Theory **3 Credit hours**
A survey of some basic properties of the integers: divisibility (prime numbers, factorization, perfect numbers), congruences (modular arithmetic, linear and quadratic congruences, the Chinese Remainder Theorem), and Diophantine equations.
Pre-req: MTH 300 with a minimum grade of C.
Grade Mode: Normal Grading Mode

MTH 480 Special Topics **1-4 Credit hours**
Attributes: Mathematics, No Textbook Required
Grade Mode: Normal Grading Mode

MTH 485 Independent Study **1-4 Credit hours**
Attributes: Mathematics, No Textbook Required
Grade Mode: Normal Grading Mode

MTH 490 Internship in Mathematics **2-12 Credit hours**
A supervised internship in an area of mathematics, applied mathematics, or statistics. By permission only.
Pre-req: MTH 300 with a minimum grade of C.
Attributes: Capstone Course
Grade Mode: Normal Grading Mode

MTH 491 Senior Seminar **2 Credit hours**
Capstone experience in reading, doing writing and speaking mathematics. Student will explore topics related to a theme chosen by the instructor.
Pre-req: MTH 300 with a minimum grade of C.
Attributes: Capstone Course, Mathematics
Grade Mode: Normal Grading Mode

Statistics

STA 150 Foundations of Statistics **3 Credit hours**
A critical thinking course on the basic foundation of Statistics for non-majors, allowing them to better prepare, develop and harness discipline-specific skills.
Pre-req: (ACT Math with a score of 17 or SAT MATH SECTION SCORE with a score of 460 or SAT Mathematics Before Mar. 16 with a score of 400 or Placement Math SP20 with a score of 237) and STA 150L (may be taken concurrently) with a minimum grade of D.
Concurrent PR: STA 150L
Attributes: Core II Mathematics, Statistics
Grade Mode: Normal Grading Mode

STA 150B Foundations of Stats-Expanded **4 Credit hours**
A critical thinking course on the basic foundation of Statistics for non-majors with algebra review, allowing them to better prepare, develop and harness discipline-specific skills.
Pre-req: STA 150L (may be taken concurrently) with a minimum grade of D.
Concurrent PR: STA 150L
Attributes: Core II Mathematics, Statistics
Grade Mode: Normal Grading Mode

STA 150L Foundations of Statistics Lab **1 Credit hour**
A lab to provide training in using the SPSS software in Foundations of Statistics for non-majors.
Pre-req: STA 150 (may be taken concurrently) with a minimum grade of D or STA 150B (may be taken concurrently) with a minimum grade of D.
Concurrent PR: STA 150 or STA 150B
Attributes: Core II Mathematics, Statistics
Grade Mode: Normal Grading Mode

STA 225 Introductory Statistics (CT) **3 Credit hours**
A critical thinking course in applied statistical reasoning covering basic probability, descriptive statistics and fundamental statistical inference procedures. Parameter estimation and hypothesis testing for variety of situations with wide applications.
Pre-req: ACT Math with a score of 21 or SAT Mathematics Before Mar. 16 with a score of 500 or SAT MATH SECTION SCORE with a score of 530 or Placement Math After SP17 with a score of 102 or MTH 121 with a minimum grade of C or MTH 123 with a minimum grade of C or MTH 127 with a minimum grade of C or MTH 130E with a minimum grade of C or MTH 122 with a minimum grade of C or MTH 130 with a minimum grade of C or MTH 121B with a minimum grade of C.
Attributes: Critical Thinking, Core II Mathematics, Statistics
Grade Mode: Normal Grading Mode

STA 326 Applied Statistical Methods **3 Credit hours**
Use of statistical packages; introduction to descriptive, probability and sampling distributions; forecasting, inferences concerning one and two samples; simple and multiple regression, analysis of variance and covariance.
Pre-req: STA 225 with a minimum grade of C or MTH 229 with a minimum grade of C or STA 150 with a minimum grade of C or STA 150B with a minimum grade of C.
Attributes: Statistics
Grade Mode: Normal Grading Mode

STA 345 Applied Prob and Stat **3 Credit hours**
Statistical methods in scientific/engineering research, with emphasis on applications. Probability modeling, experimental design/survey sampling, estimation/hypothesis testing procedures, regression, ANOVA/factor analysis. Implementation using statistical software such as Excel/SAS.
Pre-req: MTH 229 with a minimum grade of C or MTH 229H with a minimum grade of C.
Attributes: Statistics
Grade Mode: Normal Grading Mode

STA 412 Regression Analysis **3 Credit hours**
Determining regression models; deriving parameter estimates using calculus; detailed coverage of tests of assumptions and remedial procedures (transformations and weithted least-squares); multiple and polynomial regression; tests and corrections for autocorrelation.
Pre-req: STA 445 with a minimum grade of C or MTH 445 with a minimum grade of C.
Attributes: Statistics
Grade Mode: Normal Grading Mode

STA 413 Experimental Designs **3 Credit hours**
Analysis of variance an covariance models with derivations using calculus; detailed testing of model assumptions and remedial measures (as transformations) to yield adequate models; use of various statistical designs.
Pre-req: STA 445 with a minimum grade of C.
Attributes: Statistics
Grade Mode: Normal Grading Mode

STA 420 Nonparametric Statistics **3 Credit hours**
Coverage of a variety of nonparametric or distribution-free methods for practical statistical inference problems in hypothesis testing and estimation, including rank procedures and randomization procedures.
Pre-req: STA 445 with a minimum grade of C.
Attributes: Statistics
Grade Mode: Normal Grading Mode

STA 422 Time Series Forecasting **3 Credit hours**
Finding statistical models to represent various time dependent phenomena and processes; coverage of a variety of forecasting techniques, with an emphasis on adaptive, regression, and Box-Jenkins procedures.
Pre-req: STA 445 with a minimum grade of C.
Attributes: Statistics
Grade Mode: Normal Grading Mode

STA 425 Sampling Designs & Estimation **3 Credit hours**
Coverage of the theory and applications of a variety of sampling designs; sample size determination; ratio and regression estimates; comparisions among the designs.
Pre-req: STA 445 with a minimum grade of C.
Attributes: Statistics
Grade Mode: Normal Grading Mode

STA 435 Statistical Data Mining **3 Credit hours**
Introduction to statistical learning techniques for analyzing high dimensional data. Topics include data mining strategy, explanatory analysis, predictive modeling techniques and model assessment.
Pre-req: STA 345 with a minimum grade of C or STA 445 with a minimum grade of C.
Attributes: Statistics
Grade Mode: Normal Grading Mode

STA 445 Probability & Statistics I **3 Credit hours**
Probability spaces, conditional probability, and applications. Random variables, distributions, expectation, and moments.
Pre-req: MTH 230 with a minimum grade of C and MTH 231 (may be taken concurrently) with a minimum grade of C.
Concurrent PR: MTH 231
Attributes: Statistics
Grade Mode: Normal Grading Mode

STA 446 Probability & Statistics II **3 Credit hours**
Statistical inference: estimation of parameters, tests of hypotheses. Regression, analysis of variance.
Pre-req: STA 445 with a minimum grade of C.
Attributes: Statistics
Grade Mode: Normal Grading Mode

STA 464 Statistical Computing **3 Credit hours**
Introduction to the commonly used statistical computing techniques, procedures and methods, with extensive use of R language and environment, and SAS for statistical computing and graphics.
Pre-req: STA 445 with a minimum grade of C.
Attributes: Statistics
Grade Mode: Normal Grading Mode

STA 466 Stochastic Processes **3 Credit hours**
Review of probability theory. Topics include stationary processes, discrete and continuous time Markov chains, Markovian queuing systems, random walks, renewal processes, Brownian motion and Markov Chain Monte Carlo.
Pre-req: STA 445 with a minimum grade of C.
Attributes: Statistics
Grade Mode: Normal Grading Mode

STA 470 Applied Survival Analysis **3 Credit hours**
Survival and hazard functions, parametric and non-parametric methods, models and inferences for survival data, and regression diagnosis.
Pre-req: STA 445 with a minimum grade of C.
Attributes: Statistics
Grade Mode: Normal Grading Mode

STA 480 Special Topics **1-4 Credit hours**
Courses on special topics in statistics not listed among the current offerings.
Attributes: Statistics
Grade Mode: Normal Grading Mode

STA 485 Independent Study **1-4 Credit hours**
A faculty, supervised, indvidualized course of study of a topic in statistics.
Attributes: Statistics
Grade Mode: Normal Grading Mode

Faculty

Professors
Adkins, Akinsete, Aluthge, Brooks, Carlton, Lawrence, Mitchell, Mummert, Sarra, Saveliev

Associate Professors
Horwitz, Karna, Mallick, Niese, Schroeder

Assistant Professors
A. Al-Aqtash, R. Al-Aqtash, Elkadry, Jung, Miller-Mace, Stapleton

Instructors
Crytzer, Johnson, Mace, Marsh, Subedi, Wright

Mathematics, B.S.

- General Education Course

- Milestone course: a key success marker for your major. See your advisor to discuss the importance of this course in your plan of study.

Major

The Core Curriculum is designed to foster critical thinking skills and introduce students to basic domains of thinking that transcend disciplines. The Core applies to all majors. Information on specific classes in the Core can be found at https://www.marshall.edu/gened/.

Code	Title	Credit Hours
Core Curriculum		
Core 1: Critical Thinking		
FYS 100	First Yr Sem Critical Thinking	3
MTH 229	Calculus/Analytic Geom I (CT)	5
Critical Thinking Course		3
Core 2		
ENG 101	Beginning Composition	3
ENG 201	Advanced Composition	3
CMM 103	Fund Speech-Communication	3
MTH 229	Calculus/Analytic Geom I (CT)	5
Core II Natural/Physical Science		4
Core II Humanities		3
Core II Social Science		3
Core II Fine Arts		3
Additional University Requirements		
Writing Intensive		3
Writing Intensive		3
Multicultural or International		3

MTH 490	Internship in Mathematics	2
or MTH 491	Senior Seminar	
College-Specific		
COS Physical/Natural Science		4
COS Physical/Natural Science		3
Major-Specific		
CS 110	Computer Science I	3
MTH 229	Calculus/Analytic Geom I (CT)	5
MTH 230	Calculus/Analytic Geom II	4
MTH 231	Calculus/Analytic Geom III	4
MTH 300	Intro to Higher Math	4
MTH 331	Linear Algebra	4
MTH 335	Ordinary Diff Equations	3
MTH 427	Advanced Calculus I	3
MTH 428	Advanced Calculus II	3
MTH 443	Numerical Analysis	3
STA 445	Probability & Statistics I	3
MTH 450	Modern Algebra I	3
MTH 452	Modern Algebra II	3
MTH 490	Internship in Mathematics	2-12
or MTH 491	Senior Seminar	
300/400 MTH or STA Elective		3
300/400 MTH or STA Elective		3
300/400 Elective		3
Free Elective		3
Free Elective		3
Free Elective		3
Free Elective		3
Free Elective		3
Free Elective		3
Free Elective		2

Major Information

- Students who double-major in both Mathematics and Statistics may have an opportunity to double-count electives toward the respective majors. Please contact the director of undergraduate studies in the Mathematics department for more details.
- Please check with advisor about course offerings. Not all classes will be offered every semester.
- Forty (40) hours must be earned in courses numbered 300-499.

Four Year Plan

- General Education Course

- Milestone course: a key success marker for your major. See your advisor to discuss the importance of this course in your plan of study.

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Course	Title	Credit Hours
First Year		
First Semester		
FYS 100	First Yr Sem Critical Thinking	3
ENG 101	Beginning Composition	3
MTH 229	Calculus/Analytic Geom I (CT)	5
Core II Fine Arts		3
UNI 100	Freshman First Class	1
	Credit Hours	**15**
Second Semester		
CS 110	Computer Science I	3
MTH 230	Calculus/Analytic Geom II	4
Core I Critical Thinking		3
CMM 103	Fund Speech-Communication	3
Core II Social Science		3
	Credit Hours	**16**
Second Year		
First Semester		
MTH 231	Calculus/Analytic Geom III	4
MTH 300	Intro to Higher Math	4
ENG 201	Advanced Composition	3
Core II Physical/Natural Sicence		4
	Credit Hours	**15**
Second Semester		
MTH 331	Linear Algebra	4
MTH 335	Ordinary Diff Equations	3
COS Physical/Natural Science		4
Free Elective		3
Free Elective		1
	Credit Hours	**15**
Third Year		
First Semester		
MTH 427	Advanced Calculus I	3
STA 445	Probability & Statistics I	3
Multicultural or International		3
COS Physical/Natural Science		3
Free Elective		3
	Credit Hours	**15**
Second Semester		
MTH 428	Advanced Calculus II	3
Writing Intensive		3
Core II Humanities		3
300/400 MTH or STA Elective		3
Free Elective		3
	Credit Hours	**15**
Fourth Year		
First Semester		
MTH 443	Numerical Analysis	3
MTH 450	Modern Algebra I	3
Writing Intensive		3
300/400 Level Elective		3

Free Elective		3
	Credit Hours	**15**
Second Semester		
MTH 452	Modern Algebra II	3
MTH 490 or MTH 491	Internship in Mathematics or Senior Seminar	2
300/400 MTH or STA Elective		3
Free Elective		3
Free Elective		3
	Credit Hours	**14**
	Total Credit Hours	**120**

Mathematics, Minor

The Department of Mathematics offers a minor in mathematics available to all students at Marshall University. Students choosing this minor will find expanded job opportunities in business, education, government, and industry.

This minor can be helpful to students in pre-professional programs in the health sciences. A solid grounding in the fundamentals of mathematics is needed in order to perform satisfactorily on aptitude examinations that must be taken prior to admission to a professional school. This minor can be used as an important component of a student's preparation for admission to law school.

The Department of Mathematics will award a minor in mathematics to every student who completes the following four courses, with at least a 2.0 grade point average and with at least two of the courses taken at Marshall University:

Code	Title	Credit Hours
MTH 229	Calculus/Analytic Geom I (CT)	5
MTH 230	Calculus/Analytic Geom II	4
MTH 300	Intro to Higher Math	4
Select one of the following:		3-4
MTH 231	Calculus/Analytic Geom III	
MTH 329	Elementary Linear Algebra	
MTH 331	Linear Algebra	
Math Advisor approved elective		
Total Credit Hours		**16-17**

Mathematics, Teacher Certification

Students interested in pursuing teaching certification in mathematics should visit the main office of the College of Education and Professional Development. Students who plan to complete a 5-Adult certification are encouraged to consult with the director of undergraduate studies in the Mathematics department about a second major in Mathematics.

Statistics, B.S.

- General Education Course

- Milestone course: a key success marker for your major. See your advisor to discuss the importance of this course in your plan of study.

Major

The Core Curriculum is designed to foster critical thinking skills and introduce students to basic domains of thinking that transcend disciplines. The Core applies to all majors. Information on specific classes in the Core can be found at https://www.marshall.edu/gened/.

Code	Title	Credit Hours
Core Curriculum		
Core 1: Critical Thinking		
FYS 100	First Yr Sem Critical Thinking	3
MTH 229	Calculus/Analytic Geom I (CT)	5
Critical Thinking Course		3
Core 2		
ENG 101	Beginning Composition	3
ENG 201	Advanced Composition	3
CMM 103	Fund Speech-Communication	3
MTH 229	Calculus/Analytic Geom I (CT)	5
Core II Natural/Physical Science		4
Core II Humanities		3
Core II Social Science		3
Core II Fine Arts		3
Additional University Requirements		
Writing Intensive		3
Writing Intensive		3
Multicultural or International		3
MTH 490	Internship in Mathematics (Capstone)	2
or MTH 491	Senior Seminar	
College-Specific		
COS Physical/Natural Science		4
COS Physical/Natural Science		3
Major-Specific		
CS 110	Computer Science I	3
MTH 229	Calculus/Analytic Geom I (CT)	5
MTH 230	Calculus/Analytic Geom II	4
MTH 231	Calculus/Analytic Geom III	4
MTH 300	Intro to Higher Math	4
MTH 331	Linear Algebra	4
MTH 490	Internship in Mathematics (C)	2
or MTH 491	Senior Seminar	
STA 445	Probability & Statistics I	3
STA 446	Probability & Statistics II	3
STA 412	Regression Analysis	3
STA 413	Experimental Designs	3
MTH 427	Advanced Calculus I	3
STA 420	Nonparametric Statistics	3
STA 435	Statistical Data Mining	3
300/400 MTH or STA Elective		3
300/400 MTH or STA Elective		3
300/400 Level Elective		3

Free Elective	4
Free Elective	3
Free Elective	3
Free Elective	3
Free Elective	3
Free Elective	3

Major Information

- Students who double-major in both Mathematics and Statistics may have an opportunity to double-count electives toward the respective majors. Please contact the director of undergraduate studies in the Mathematics department for more details.
- Please check with advisor about course offerings. Not all classes will be offered every semester.
- Forty (40) hours must be earned in courses numbered 300-499.

- General Education Course

- Milestone course: a key success marker for your major. See your advisor to discuss the importance of this course in your plan of study.

Four Year Plan

The Marshall University Department of Mathematics prepare students for careers in the mathematical sciences and related disciplines. Graduates of our mathematics programs have had successful careers in government and industry. Our graduates have also earned advanced degrees in mathematics, statistics, engineering, and economics. Our degree programs may also be used to prepare for secondary mathematics certification and for professions such as law or medicine. The department has a dynamic and engaged faculty who focus both on excellent teaching and on many areas of mathematical research.

Course	Title	Credit Hours
First Year		
First Semester		
FYS 100	First Yr Sem Critical Thinking	3
ENG 101	Beginning Composition	3
MTH 229	Calculus/Analytic Geom I (CT)	5
Core II Fine Arts		3
UNI 100	Freshman First Class	1
	Credit Hours	**15**
Second Semester		
MTH 230	Calculus/Analytic Geom II	4
Core I Critical Thinking		
CMM 103	Fund Speech-Communication	3
CS 110	Computer Science I	3
Core II Social Science		3
	Credit Hours	**13**
Second Year		
First Semester		
MTH 231	Calculus/Analytic Geom III	4
MTH 300	Intro to Higher Math	4
ENG 201	Advanced Composition	3
Core II Physical/Natural Science		4
	Credit Hours	**15**
Second Semester		
MTH 331	Linear Algebra	4
300/400 Level Elective		3
Free Elective		4
Physical/Natural Science Elective		4
	Credit Hours	**15**
Third Year		
First Semester		
MTH 427	Advanced Calculus I	3
STA 445	Probability & Statistics I	3
Physical/Natural Science Elective		3
Multicultural or International Elective		3
Free Elective		3
	Credit Hours	**15**
Second Semester		
Humanities Elective		3
Writing Intensive Elective		3
STA 446	Probability & Statistics II	3
300/400 MTH or STA Elective		3
Free Elective		3
	Credit Hours	**15**
Fourth Year		
First Semester		
STA 412	Regression Analysis	3
STA 435	Statistical Data Mining	3
300/400 MTH or STA Elective		3
Writing Intensive		3
Free Elective		3
	Credit Hours	**15**
Second Semester		
STA 413	Experimental Designs	3
STA 420	Nonparametric Statistics	3
MTH 490 or MTH 491	Internship in Mathematics or Senior Seminar	2
Free Elective		3
Free Elective		3
	Credit Hours	**14**
	Total Credit Hours	**117**

Statistics, Minor

The Department of Mathematics offers a minor in statistics available to all students at Marshall University. Students who completed a minor in statistics must have a demonstrated knowledge and understanding of statistical techniques and methodologies, working with real data, and understanding of data analysis with job opportunities in business, government, industry and health sectors. The minor provides a window of opportunities for further study in statistical sciences. Students with a statistics minor may be eligible to pursue further degree programs in statistical sciences. The minor in statistics is not to be taken by students pursuing any degree majors in mathematics

department. Students pursuing a minor in statistics must complete the General Education requirements at Marshall and in addition, the requirements for their major degree option(s).

The requirements for an undergraduate Minor in Statistics consist of a total of 16 credit hours. The student must have at least a 2.0 grade point average, and a grade of *C* or better in the required core courses (10 credit hours), and two additional courses (6 credit hours) chosen with permission from the list of elective courses. At least 9 credit hours of the required 16 credit hours must be taken at Marshall University.

Code	Title	Credit Hours
Core Required Courses		
MTH 231	Calculus/Analytic Geom III	4
STA 326	Applied Statistical Methods	3
or STA 345	Applied Prob and Stat	
STA 445	Probability & Statistics I	3
Elective Courses		
Select two of the following (with permission):		6
STA 412	Regression Analysis	
STA 413	Experimental Designs	
STA 420	Nonparametric Statistics	
STA 422	Time Series Forecasting	
STA 425	Sampling Designs & Estimation	
STA 446	Probability & Statistics II	
STA 464	Statistical Computing	
STA 466	Stochastic Processes	
STA 470	Applied Survival Analysis	
Total Credit Hours		**16**

Department of Natural Resources and the Environment

Contacts: Dr. Thomas G. Jones, Chair, jonest@marshall.edu

Man's interaction with the environment is the focus of the Department of Natural Resources and the Environment (NRE) as we seek to prepare students for careers or advanced studies in management, conservation, protection, regulation, and restoration of natural resources. Integration of the human dimensions of resource use with conservation and management forms the foundation of the Natural Resources and Recreation Management Program. Environmental Science merges concepts in geology, ecology, biology, chemistry and physics to provide students with a strong science foundation which forms the basis for understanding of environmental issues. All programs incorporate technology such as geographic information systems, remote sensing, and discipline specific instrumentation to provide students with state-of-the-art educational experiences so they move confidently on to future endeavors. Additionally, all programs integrate understanding of laws and regulations relevant to aspects of conservation, protection, and management of natural resources preparing students for decision making in our modern world.

Programs

- Environmental Science, B.S. (p. 638)
- Environmental Science, Minor (p. 643)
- Natural Resources and Recreation Management, B.S. (p. 644)
- Natural Resources and Recreation Management, Minor (p. 645)
- Specialty Agriculture, B.S. (p. 645)

Courses

- General Education Course

Natural Resources and Environment

NRE 111 Living Systems **4 Credit hours**
This course is designed to equip students to observe and create their own questions, test them, and continue the process of scientific inquiry related to living systems.
Attributes: Natural Sciences, Core II Natural Sciences
Grade Mode: Normal Grading Mode

NRE 120 Discussion in Environ Sci (CT) **3 Credit hours**
Critical thinking course designed to examine and explore issues in environmental science including protection of terrestrial and aquatic resources and production of energy and food for a growing population.
Attributes: Critical Thinking
Grade Mode: Normal Grading Mode

NRE 200 Introduction to Agriculture **3 Credit hours**
This course will discuss scientific concepts essential to agriscience and examine practices, careers, and new directions in various fields in agriculture.
Grade Mode: Normal Grading Mode

NRE 212 Energy **3 Credit hours**
The course introduces the students to the properties and the interfaces of biological and physical systems with emphasis on energy concepts, production and distribution in both systems.
Attributes: Natural Sciences
Grade Mode: Normal Grading Mode

NRE 220 Human Dimensions Nat Res (CT) **3 Credit hours**
This course provides an overview of human-nature relationship from the perspective of conservation and natural resource management.
Attributes: Critical Thinking
Grade Mode: Normal Grading Mode

NRE 280 Special Topics **1-4 Credit hours**
A course covering topics not treated in regular course offerings.
Grade Mode: Normal Grading Mode

NRE 281 Special Topics **1-4 Credit hours**
A course covering topics not treated in regular course offerings.
Grade Mode: Normal Grading Mode

NRE 282 Special Topics **1-4 Credit hours**
A course covering topics not treated in regular course offerings.
Grade Mode: Normal Grading Mode

NRE 283 Special Topics **1-4 Credit hours**
A course covering topics not treated in regular course offerings.
Grade Mode: Normal Grading Mode

NRE 285 Independent Study **1-4 Credit hours**
Independent study for selected sophomores or advanced freshman under supervision of faculty; may be repeated only once.
Grade Mode: Normal Grading Mode

NRE 286 Independent Study **1-4 Credit hours**
Independent study for selected sophomores or advanced freshman under supervision of faculty; may be repeated only once.
Grade Mode: Normal Grading Mode

NRE 287 Independent Study **1-4 Credit hours**
Independent study for selected sophomores or advanced freshman under supervision of faculty; may be repeated only once.
Grade Mode: Normal Grading Mode

NRE 288 Independent Study **1-4 Credit hours**
Independent study for selected sophomores or advanced freshman under supervision of faculty; may be repeated only once.
Grade Mode: Normal Grading Mode

NRE 300 Principles of Soil Science **3 Credit hours**
This course will examine the principles of soils, including origin, composition, classification, and physical, chemical, and biological properties and processes, as well as agricultural and environmental applications.
Pre-req: CHM 212 with a minimum grade of D.
Grade Mode: Normal Grading Mode

NRE 301 Principles of Soil Science Lab **2 Credit hours**
A laboratory course that demonstrates the application of concepts introduced in NRE 300 Principles of Soil Science.
Pre-req: NRE 300 (may be taken concurrently) with a minimum grade of D and CHM 212 with a minimum grade of D.
Concurrent PR: NRE 300
Grade Mode: Normal Grading Mode

NRE 302 Animal Production **3 Credit hours**
This course will examine the principles of animal production through the application of anatomy, physiology, behavior, nutrition, reproduction, breeding, and genetics in the production and management of farm animals.
Pre-req: BSC 121 with a minimum grade of D.
Grade Mode: Normal Grading Mode

NRE 320 Nature Enviro Problems **3 Credit hours**
The effects of human activity on ecological, political, economic, and cultural systems are examined. Particular attention is given to present human population growth, industrial activities, and energy availability.
Grade Mode: Normal Grading Mode

NRE 321 Resol Environ Problems **3 Credit hours**
Students examine case studies of current environmental problems and propose methods of remediation. Cultural, political, economic, as well as ecological and physiographic factors are considered.
Grade Mode: Normal Grading Mode

NRE 322 Assess I: Terrestrial Systems **4 Credit hours**
Use of scientific procedure and current technology to characterize and quantify sensitive elements of terrestrial ecosystems and to assess human impact on these systems.
Pre-req: (IST 111 with a minimum grade of D or NRE 111 with a minimum grade of D) or BSC 104 with a minimum grade of D or BSC 120 with a minimum grade of D.
Grade Mode: Normal Grading Mode

NRE 323 Assessment II: Aquatic Ecology **4 Credit hours**
Use of scientific procedures and current technology to characterize and quantify sensitive elements of aquatic ecosystems and to assess human impact on these systems.
Pre-req: IST 111 or NRE 111 or BSC 104 or BSC 120.
Grade Mode: Normal Grading Mode

NRE 400 Soil Fertility/Plant Nutrition **4 Credit hours**
This course will examine properties of soil fertility, its relationship to plan nutrition, and practices in nutrient management and fertilizer application.
Pre-req: BSC 121 with a minimum grade of D and NRE 300 with a minimum grade of D.
Grade Mode: Normal Grading Mode

NRE 401 Horticulture **4 Credit hours**
This course will examine the principles and practices in horticulture and apply these practices through a semester service project.
Pre-req: BSC 121 with a minimum grade of D and NRE 310 with a minimum grade of D.
Grade Mode: Normal Grading Mode

NRE 402 Sustainable Agriculture **3 Credit hours**
This course will examine the principles of sustainable agriculture and its relationship with natural resources while identifying challenges to agricultural sustainability and frontiers in the field.
Pre-req: NRE 200 with a minimum grade of D.
Grade Mode: Normal Grading Mode

NRE 403 Agricultural Entomology **4 Credit hours**
Globally, insects have tremendous impacts on agriculture. This course introduces students to insects and their roles in agriculture including integrated pest management and pollination ecology.
Pre-req: BSC 121 with a minimum grade of D.
Grade Mode: Normal Grading Mode

NRE 423 GIS and Data Systems **3 Credit hours**
Course focuses on the relationships among the scientific method, data structures, and geographic images. Students relate hypothesis formation and databases through the development of ARCMap documents.
Grade Mode: Normal Grading Mode

NRE 425 Water Policy and Regulations **3 Credit hours**
Examination of how aquatic resources are protected for humans and species of concern by current regulatory framework.
Attributes: No Textbook Required
Grade Mode: Normal Grading Mode

NRE 431 Aquatic Toxicology **4 Credit hours**
This course will introduce students to the principles of aquatic toxicology including regulations driving biological criteria, development of laboratory toxicity testing and test methodology.
Pre-req: BSC 105 with a minimum grade of D or BSC 121 with a minimum grade of D or IST 323 with a minimum grade of D or NRE 323 with a minimum grade of D.
Grade Mode: Normal Grading Mode

NRE 435 Biomonitoring **4 Credit hours**
Biomonitoring is the use of organisms to assess habitat and water quality of a stream. Current aquatic biomonitoring focuses on the utilization of benthic invertebrates and fishes communities.
Pre-req: BSC 120 with a minimum grade of D or IST 323 with a minimum grade of D or NRE 323 with a minimum grade of D.
Grade Mode: Normal Grading Mode

NRE 470 ES Internship **3 Credit hours**
A supervised internship in an area of natural resources and the environment.
Attributes: Capstone Course
Grade Mode: Normal Grading Mode

NRE 480 Special Topics **1-4 Credit hours**
A course covering topics not treated in regular course offerings.
Grade Mode: Normal Grading Mode

NRE 481 Special Topics **1-4 Credit hours**
A course covering topics not treated in regular course offerings.
Grade Mode: Normal Grading Mode

NRE 482 Special Topics **1-4 Credit hours**
A course covering topics not treated in regular course offerings.
Grade Mode: Normal Grading Mode

NRE 483 Special Topics **1-4 Credit hours**
A course covering topics not treated in regular course offerings.
Grade Mode: Normal Grading Mode

NRE 485 Independent Study **1-4 Credit hours**
Independent study for selected juniors and seniors under supervision of faculty; may be repeated only once.
Attributes: No Textbook Required
Grade Mode: Normal Grading Mode

NRE 486 Independent Study **1-4 Credit hours**
Independent study for selected juniors and seniors under supervision of faculty; may be repeated only once.
Grade Mode: Normal Grading Mode

NRE 487 Independent Study **1-4 Credit hours**
Independent study for selected juniors and seniors under supervision of faculty; may be repeated only once.
Grade Mode: Normal Grading Mode

NRE 488 Independent Study **1-4 Credit hours**
Independent study for selected juniors and seniors under supervision of faculty; may be repeated only once.
Grade Mode: Normal Grading Mode

NRE 490 ES/NRRM Capstone Prep **3 Credit hours**
Prepares students for the senior project, internship experience, and for careers beyond graduation. Life skills are introduced by building on communication, organization, and project management skills (capstone).
Attributes: No Textbook Required
Grade Mode: Normal Grading Mode

NRE 491 ES Senior Capstone **3 Credit hours**
Students develop and complete a research project under the direction of a faculty member in the NRE department (capstone).
Pre-req: NRE 490 with a minimum grade of D.
Attributes: Capstone Course, No Textbook Required
Grade Mode: Normal Grading Mode

NRE 531 Aqua Toxicology **4 Credit hours**
This course will introduce students to the principles of aquatic toxicology including regulations driving biological criteria, development of laboratory toxicity testing and test methodology.
Grade Mode: Normal Grading Mode

NRE 670 Independent Study **1-4 Credit hours**
Independent Study
Grade Mode: Normal Grading Mode

NRE 671 Independent Study **1-4 Credit hours**
Independent Study
Grade Mode: Normal Grading Mode

NRE 672 Independent Study **1-4 Credit hours**
Independent Study
Grade Mode: Normal Grading Mode

NRE 673 Independent Study **1-4 Credit hours**
Independent Study
Grade Mode: Normal Grading Mode

NRE 680 Special Topics **1-4 Credit hours**
Study of an advanced topic not normally covered in other courses.
Grade Mode: Normal Grading Mode

NRE 681 Thesis **1-8 Credit hours**
Thesis
Grade Mode: Normal Grading Mode

Natural Resource Recreation Management

NRRM 101 Intro Natural Res & Rec Mgmt **3 Credit hours**
An orientation to the profession and its settings, emphasizing history, trends, concepts, and relationships to other fields.
Grade Mode: Normal Grading Mode

NRRM 110 Outdoor Leadership: Canoeing **1 Credit hour**
This course is designed to give students the skills essential for the pursuit of employment in guiding participants on flat-water canoe courses in backcountry settings.
Grade Mode: Normal Grading Mode

NRRM 111 Outdoor Leadership: Fly Fish **1 Credit hour**
This course is designed to give students the skills essential for the pursuit of being able to guide participants on fly fishing excursions in the backcountry.
Grade Mode: Normal Grading Mode

NRRM 112 Outdoor Leadership: Bass Fish **1 Credit hour**
This course is designed to give students the skills essential to pursue employment as a guide on bass fishing excursions in the backcountry.
Grade Mode: Normal Grading Mode

NRRM 113 Outdoor Leadership: Backpack **1 Credit hour**
This course is designed to give students the foundation skills essential in the pursuit of being leading participants on backcountry backpacking experiences. Leave No Trace ethics will be taught.
Grade Mode: Normal Grading Mode

NRRM 156 Bicycling **1 Credit hour**
Grade Mode: Normal Grading Mode

NRRM 158 Downhill Skiing **1 Credit hour**
Grade Mode: Normal Grading Mode

NRRM 200 Analytical Methods: Statistics **4 Credit hours**
Students develop an understanding of statistical reasoning through the use of software to generate, summarize, and draw conclusions from data. Course enhances statistical technique dexterity through analysis of applied problems.
Grade Mode: Normal Grading Mode

NRRM 201 Recreational Activities **3 Credit hours**
Grade Mode: Normal Grading Mode

NRRM 231 Nature Study **3 Credit hours**
Designed to provide students with the fundamental understanding of and for the delivery of nature based educational programs offered through an experiential framework.
Grade Mode: Normal Grading Mode

NRRM 280 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

NRRM 281 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

NRRM 282 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

NRRM 283 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

NRRM 301 Intro to Outdoor Recreation **3 Credit hours**
Organization, administration, and delivery of outdoor recreation activities and resources. Emphasis upon federal, state, and local government programs and areas.
Grade Mode: Normal Grading Mode

NRRM 310 Environmental Interpretation **3 Credit hours**
Principles and techniques of environmental interpretation as practiced in federal, state, and private agencies.
Grade Mode: Normal Grading Mode

NRRM 311 Intro to Environmental Educ **3 Credit hours**
This course is the study of environmental education, its foundations, emergence in the 1960's, its evolution, the systems approach to it, and the application of it in the field.
Grade Mode: Normal Grading Mode

NRRM 320 Sports & Campus Rec Mgmt **3 Credit hours**
This course will deal with the fields of recreational sports and campus recreation management. It will present the foundations of both fields, the development, implementation, and trends in today's programs.
Grade Mode: Normal Grading Mode

NRRM 330 Concepts Philosophies in NRRM **3 Credit hours**
A systematic approach to the concepts and philosophies for managing wildland, wilderness, and protected areas.
Grade Mode: Normal Grading Mode

NRRM 340 Special Event Managment **3 Credit hours**
This course will study the processes for event facilitation. Special attention will be given to the roles and skills utilized by a variety of recreation managers.
Grade Mode: Normal Grading Mode

NRRM 350 Adventure Education Leadership **3 Credit hours**
This course focuses on preparing students to be outdoor adventure education leaders, facilitating programs in both the front and back country utilizing adventure education techniques in an outdoor setting.
Grade Mode: Normal Grading Mode

NRRM 360 Tourism Planning & Management **3 Credit hours**
The course will examine the critical issues addressed by tourism planning and management, which are the positive and negative influences of tourism on the destination's economy, society, culture, and environment.
Grade Mode: Normal Grading Mode

NRRM 361 Visitor Behavior in NRRM **3 Credit hours**
This course provides an overview and analysis of individual and group behavior as it pertains to consumer activity in the context of recreation and tourism resource environments.
Grade Mode: Normal Grading Mode

NRRM 362 Ecotourism: Admin and Mgmt **3 Credit hours**
This course will examine the theoretical foundations, applications and best management practices in ecotourism. Other minor topics include: sustainability, nature-based and adventure tourism; sociocultural, environmental, and economic impacts of ecotourism.
Grade Mode: Normal Grading Mode

NRRM 380 Rec Resource Oper. and Admin **3 Credit hours**
Focused on the management, operation, and administration practices of recreation resource areas. Includes supervision of personnel, budgeting, and public relations for a variety of park and public land organizational structures.
Grade Mode: Normal Grading Mode

NRRM 400 Leisure & Aging **3 Credit hours**
A course presenting an overview of leisure services for the elderly. Topics include research results, theories, and modern day trends. A wellness model will be included.
Grade Mode: Normal Grading Mode

NRRM 402 Research Eval & Assess in NRRM **3 Credit hours**
Theoretical & practical approach to research, evaluation and assessment of the social sciences of natural resources and recreational management.
Grade Mode: Normal Grading Mode

NRRM 405 Park & Recreation Ecology **3 Credit hours**
The course is designed to help students identify and evaluate the level of resource impact, understand factors that cause impacts, and suggest management actions to minimize impacts under given conditions.
Grade Mode: Normal Grading Mode

NRRM 410 Maint of Nat Res & Rec **3 Credit hours**
A study of the knowledge and skills necessary to supervise and administer the general development and maintenance of park and recreation areas and facilities.
Grade Mode: Normal Grading Mode

NRRM 411 Rec Resource Planning & Design **3 Credit hours**
Basic considerations in the planning and design of natural areas, parks, forests, recreation, and sport area infrastructure, facilities and associated amenities.
Attributes: No Textbook Required
Grade Mode: Normal Grading Mode

NRRM 432 Wilderness/Protected Area Mgmt **3 Credit hours**
This course will examine the historic and current philosophies of wilderness and protected area management as applicable to NGOs, local, state, and federal land management programs.
Grade Mode: Normal Grading Mode

NRRM 433 GIS/RS in Natural Resources **3 Credit hours**
Focusing on natural resource management, the course will explore techniques and procedures required for spatially explicit data analysis in park and protected area applications.
Grade Mode: Normal Grading Mode

NRRM 450 Intro OHV Recreation **3 Credit hours**
Grade Mode: Normal Grading Mode

NRRM 451 Plan Design OHV Trails **3 Credit hours**
Grade Mode: Normal Grading Mode

NRRM 452 Construction OHV Trails **3 Credit hours**
A course designed to instruct students in contemporary methods and techniques of constructing OHV trails and related facilities.
Grade Mode: Normal Grading Mode

NRRM 453 Op Mgt OHV Trail Systems **3 Credit hours**
Grade Mode: Normal Grading Mode

NRRM 480 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

NRRM 481 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

NRRM 482 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

NRRM 483 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

NRRM 484 Special Topics **1-3 Credit hours**
Grade Mode: Normal Grading Mode

NRRM 485 Independent Study **1-4 Credit hours**
Attributes: No Textbook Required
Grade Mode: Normal Grading Mode

NRRM 486 Independent Study **1-4 Credit hours**
Grade Mode: Normal Grading Mode

NRRM 487 Independent Study **1-4 Credit hours**
Grade Mode: Normal Grading Mode

NRRM 488 Independent Study **1-4 Credit hours**
Grade Mode: Normal Grading Mode

NRRM 490 Internship **6 Credit hours**
A supervised 40-hour per week, 6 week internship in which the students work with park and recreation agencies. (PR: NRRM major. Advisor approval required.)
Attributes: Capstone Course, No Textbook Required
Grade Mode: Normal Grading Mode

Faculty

Professor
Armstead

Associate Professors
Jones, Kim

Assistant Professors
Gage

Instructors
Colvin, Starcher

Environmental Science, B.S.

The Bachelor of Science in Environmental Science degree is an integrated program requiring math, communication, and environmental studies courses and basic science courses from Geology, Biology, Chemistry, and Physics departments. The integrated coverage of broad topics prepare students for the complex problems facing a modern world. Areas of Emphasis help focus student efforts toward individual goals and interests with consideration to obtaining rewarding careers the fields of environmental science or conservation or pursuing advanced studies.

A minor in a relevant field of study such as Business, Anthropology, History or the natural sciences of Biology, Chemistry, Geography, Geology, Natural Resources and Recreation Management, or Physics is encouraged for Environmental Science majors. Transfer students with prior college experience can receive equivalent credit for required courses.

Areas of Emphasis

- Applied Environmental Science, Emphasis (p. 638)
- Conservation and Wildlife, Emphasis (p. 640)
- Environmental Science, Emphasis (p. 642)

Applied Environmental Science, Emphasis

- General Education Course

- Milestone course: a key success marker for your major. See your advisor to discuss the importance of this course in your plan of study.

Major

Code	Title	Credit Hours
Core Curriculum		
Core 1: Critical Thinking		
FYS 100	First Yr Sem Critical Thinking	3
NRE 220	Human Dimensions Nat Res (CT)	3
NRE 120	Discussion in Environ Sci (CT)	3
Core 2		
ENG 101	Beginning Composition	3
ENG 201	Advanced Composition	3
CMM 103	Fund Speech-Communication	3
MTH 140	Applied Calculus	3
Core II Humanities		
Core II Social Science		
Core II Fine Arts		
BSC 120 & BSC 120L	Principles of Biology I and Principles of Biology I Lab	4
Additional University Requirements		
Writing Intensive		
Writing Intensive		
Multicultural or International		
NRE 491	ES Senior Capstone	3
Major - Specific		
CIT 150	Spreadsheet and Database Apps	3
MTH 140	Applied Calculus	3
NRE 120	Discussion in Environ Sci (CT)	3
NRE 220	Human Dimensions Nat Res (CT)	3
CHM 211	Principles of Chemistry I	3
CHM 217	Principles of Chem Lab I	2
CHM 212	Principles Chemistry II	3
CHM 218	Principles of Chem Lab II	2
NRRM 200	Analytical Methods: Statistics	4
NRE 323	Assessment II: Aquatic Ecology	4
NRE 423	GIS and Data Systems	3
NRE 470	ES Internship	3
or NRE 491	ES Senior Capstone	
NRE 490	ES/NRRM Capstone Prep	3

NRE 491	ES Senior Capstone	3
Area of Emphasis - Specific		
NRE 111	Living Systems	3-4
or BSC 120	Principles of Biology I	
GLY 200	The Dynamic Earth	3
Select one of the following:		3-4
NRE 212	Energy	
PHY 201 & PHY 202	College Physics I and General Physics I Laboratory	
CIT 260	Instrumentation	3
IST 264		
NRE 320	Nature Enviro Problems	3
NRE 321	Resol Environ Problems	3
NRE 435	Biomonitoring	4
NRE 322	Assess I: Terrestrial Systems	4
NRE 425	Water Policy and Regulations	3
Major Elective		3
Major Elective		3
Major Elective		3
Major Elective		3
Major Elective		3
Major Elective		3
Free Elective		3
Free Elective		1

- In addition to the Core General Education requirements, the College of Science requires 3 hours of Calculus, 8 additional hours of Natural or Physical Science, and 40 hours of upper-level credit.
- Coursework listed as elective may vary for each student. Students are encouraged to use elective hours toward a 2nd minor or toward prerequisites.
- Students are strongly encouraged to select courses that meet two or more Core or College requirements. For example, a writing intensive literature course could satisfy the Core II Humanities requirement as well as the university writing intensive requirement.
- Course offerings and course attributes are subject to change each semester. Please consult each semester's schedule of courses for availability and attributes.
- Math is based on an ACT Mathematics score of 24 or higher. Students with an ACT Mathematics score less than 24 will be placed in the appropriate prerequisite mathematics and science courses.
- Electives: In consultation with the COS advisors, students will select electives from the College of Science offerings best suited to prepare students to apply for professional credentials as a certified ecologist, certified wildlife biologist, or certified fisheries professional. Once a student has satisfied all of the requirements for one of these certifications, he or she should select additional electives in consultation with NRE/COS advisers to reach the 120 credit hours required for graduation. Additional electives may be used to satisfy general education requirements (e.g., writing intensive) and/or to fulfill the requirements of a second major, minor, or certificate.

- General Education Course

- Milestone course: a key success marker for your major. See your advisor to discuss the importance of this course in your plan of study.

The Bachelor of Science in Environmental Science degree is an integrated program requiring math, communication, and environmental studies courses and basic science courses from Geology, Biology, Chemistry, and Physics departments. The integrated coverage of broad topics prepares students for the complex problems facing a modern world. Areas of Emphasis help focus student efforts toward individual goals and interests with consideration to obtaining rewarding careers in the fields of environmental science or conservation or pursuing advanced studies.

Four Year Plan

Course	Title	Credit Hours
First Year		
First Semester		
CIT 150	Spreadsheet and Database Apps	3
NRE 120	Discussion in Environ Sci (CT)	3
MTH 140	Applied Calculus	3
ENG 101	Beginning Composition	3
FYS 100	First Yr Sem Critical Thinking	3
UNI 100	Freshman First Class	1
	Credit Hours	**16**
Second Semester		
CMM 103	Fund Speech-Communication	3
BSC 120 & BSC 120L or NRE 111	Principles of Biology I or Living Systems	4
GLY 200	The Dynamic Earth	3
GLY 210L	Earth Materials Lab	1
NRE 220	Human Dimensions Nat Res (CT)	3
	Credit Hours	**14**
Second Year		
First Semester		
CHM 211	Principles of Chemistry I	3
CHM 217	Principles of Chem Lab I	2
ENG 201	Advanced Composition	3
Core II Fine Arts		3
Core II Social Science (M/I)		3
Free Elective		1
	Credit Hours	**15**
Second Semester		
CHM 212	Principles Chemistry II	3
Select one of the following:		3-4
NRE 212	Energy	
PHY 201 & PHY 202	College Physics I and General Physics I Laboratory	
CHM 218	Principles of Chem Lab II	2
NRRM 200	Analytical Methods: Statistics	4
IST 264		
	Credit Hours	**12-13**

Third Year		
First Semester		
NRE 323	Assessment II: Aquatic Ecology	4
NRE 423	GIS and Data Systems	3
CIT 260	Instrumentation	3
NRE 320	Nature Enviro Problems	3
Core II Humanities (WI)		3
	Credit Hours	**16**
Second Semester		
NRE 322	Assess I: Terrestrial Systems	4
NRE 321	Resol Environ Problems	3
NRE 490	ES/NRRM Capstone Prep	3
Major Elective		3
Major Elective		3
	Credit Hours	**16**
Fourth Year		
First Semester		
NRE 425	Water Policy and Regulations	3
Major Elective		3
Major Elective		3
Major Elective		3
Writing Intensive		3
	Credit Hours	**15**
Second Semester		
NRE 470 or NRE 491	ES Internship or ES Senior Capstone	3
NRE 435	Biomonitoring	4
Major Elective		3
Free Elective		3
	Credit Hours	**13**
	Total Credit Hours	**117-118**

Conservation and Wildlife, Emphasis

- General Education Course

- Milestone course: a key success marker for your major. See your advisor to discuss the importance of this course in your plan of study.

major

The Core Curriculum is designed to foster critical thinking skills and introduce students to basic domains of thinking that transcend disciplines. The Core applies to all majors. Information on specific classes in the Core can be found at https://www.marshall.edu/gened/.

Code	Title	Credit Hours
Core Curriculum		
Core 1: Critical Thinking		
FYS 100	First Yr Sem Critical Thinking	3
NRE 220	Human Dimensions Nat Res (CT)	3
NRE 120	Discussion in Environ Sci (CT)	3
Core 2		
ENG 101	Beginning Composition	3
ENG 201	Advanced Composition	3
CMM 103	Fund Speech-Communication	3
MTH 140	Applied Calculus	3
Core II Humanities		3
Core II Social Science		3
Core II Fine Arts		3
BSC 120	Principles of Biology I (Physical/Natural Science Elective)	3
BSC 120L	Principles of Biology I Lab	1
Additional University Requirements		
Writing Intensive		3
Writing Intensive		3
Multicultural or International		3
NRE 491	ES Senior Capstone	3
Major-Specific		
CIT 150	Spreadsheet and Database Apps	3
MTH 140	Applied Calculus	3
NRE 120	Discussion in Environ Sci (CT) (CT)	3
NRE 220	Human Dimensions Nat Res (CT) (CT)	3
CHM 211	Principles of Chemistry I	3
CHM 217	Principles of Chem Lab I	2
CHM 212	Principles Chemistry II	3
CHM 218	Principles of Chem Lab II	2
NRRM 200	Analytical Methods: Statistics	4
NRE 323	Assessment II: Aquatic Ecology	4
NRE 423	GIS and Data Systems	3
NRE 425	Water Policy and Regulations	3
NRE 470 or NRE 491	ES Internship (Senior Project) or ES Senior Capstone	3
NRE 490	ES/NRRM Capstone Prep	3
Area of Emphasis-Specific		
BSC 120	Principles of Biology I	3
BSC 120L	Principles of Biology I Lab	1
BSC 121	Principles of Biology II	3
BSC 121L	Prin of Biology II Lab	1
PHY 201	College Physics I	3
PHY 202	General Physics I Laboratory	1
PHY 203	College Physics II	3
PHY 204	General Physics 2 Laboratory	1
BSC 320 or NRE 322	Principles of Ecology Assess I: Terrestrial Systems	4
Major Elective		4
Major Elective		4
Major Elective		3
Major Elective		3
Major Elective		3
Major Elective		3
Free Elective		3
Free Elective		3
Free Elective		3

Free Elective	3
Free Elective	2

Major Information

- In addition to the Core General Education requirements, the College of Science requires 3 hours of Calculus, 8 additional hours of Natural or Physical Science, and 40 hours of upper level credit.
- Coursework listed as "elective" may vary for each student. Students are encouraged to use elective hours toward a 2nd minor or toward prerequisites.
- Students are strongly encouraged to select courses that meet two or more Core or College requirements. For example, a writing intensive literature course could satisfy the Core II Humanities requirement as well as the university writing intensive requirement.
- Course offerings and course attributes are subject to change each semester. Please consult each semester's schedule of courses for availability and attributes.
- MTH 140 Applied Calculus is based on an ACT Mathematics score of 24 or higher. Students with an ACT Mathematics score less than 24 will be placed in the appropriate mathematics and science courses.
- Electives: In consultation with the COS advisors, students will select electives from the College of Science offerings best suited to prepare students to apply for professional credentials as a certified ecologist, certified wildlife biologist, or certified fisheries professional. Once a student has satisfied all of the requirements for one of these certifications, he or she should select additional electives in consultation with NRE/COS advisers to reach the 120 credit hours required for graduation. Additional electives may be used to satisfy general education requirements (e.g., writing intensive) and/or to fulfill the requirements of a second major, minor, or certificate.

- General Education Course

- Milestone course: a key success marker for your major. See your advisor to discuss the importance of this course in your plan of study.

Four Year Plan

The Bachelor of Science in Environmental Science degree is an integrated program requiring math, communication, and environmental studies courses and basic science courses from Geology, Biology, Chemistry, and Physics departments. The integrated coverage of broad topics prepare students for the complex problems facing a modern world. Areas of Emphasis help focus student efforts toward individual goals and interests with consideration to obtaining rewarding careers in the fields of environmental science or conservation or pursuing advance studies.

Course	Title	Credit Hours
First Year		
First Semester		
CIT 150	Spreadsheet and Database Apps	3
NRE 120	Discussion in Environ Sci (CT)	3
MTH 140	Applied Calculus	3
ENG 101	Beginning Composition	3
FYS 100	First Yr Sem Critical Thinking	3
UNI 100	Freshman First Class	1
	Credit Hours	**16**
Second Semester		
ENG 201	Advanced Composition	3
CMM 103	Fund Speech-Communication	3
BSC 120	Principles of Biology I	3
BSC 120L	Principles of Biology I Lab	1
NRE 220	Human Dimensions Nat Res (CT) (CT)	3
Core II Humanities (WI)		3
	Credit Hours	**16**
Second Year		
First Semester		
CHM 211	Principles of Chemistry I	3
CHM 217	Principles of Chem Lab I	2
Free Elective		3
Core II Fine Arts		3
Core II Social Science (M/I)		3
	Credit Hours	**14**
Second Semester		
BSC 121	Principles of Biology II	3
BSC 121L	Prin of Biology II Lab	1
CHM 212	Principles Chemistry II	3
CHM 218	Principles of Chem Lab II	2
NRRM 200	Analytical Methods: Statistics	4
Free Elective		3
	Credit Hours	**16**
Third Year		
First Semester		
NRE 323	Assessment II: Aquatic Ecology	4
NRE 423	GIS and Data Systems	3
PHY 201	College Physics I	3
PHY 202	General Physics I Laboratory	1
Major Elective		4
	Credit Hours	**15**
Second Semester		
BSC 320 or NRE 322	Principles of Ecology or Assess I: Terrestrial Systems	4
PHY 203	College Physics II	3
PHY 204	General Physics 2 Laboratory	1
NRE 490	ES/NRRM Capstone Prep	3
Writing Intensive		3
	Credit Hours	**14**
Fourth Year		
First Semester		
NRE 425	Water Policy and Regulations	3
Major Elective		3
Major Elective		3
Free Elective		3
Free Elective		2
	Credit Hours	**14**

Second Semester		
NRE 470 or NRE 491	ES Internship (Senior Project) or ES Senior Capstone	3
Major Elective		4
Major Elective		3
Major Elective		3
Free Elective		2
	Credit Hours	**15**
	Total Credit Hours	**120**

Environmental Science, Emphasis

- General Education Course

- Milestone course: a key success marker for your major. See your advisor to discuss the importance of this course in your plan of study.

Major

The Core Curriculum is designed to foster critical thinking skills and introduce students to basic domains of thinking that transcend disciplines. The Core applies to all majors. Information on specific classes in the Core can be found at https://www.marshall.edu/gened/.

Code	Title	Credit Hours
Core Curriculum		
Core 1: Critical Thinking		
FYS 100	First Yr Sem Critical Thinking	3
NRE 120	Discussion in Environ Sci (CT)	3
NRE 220	Human Dimensions Nat Res (CT)	3
Core 2		
ENG 101	Beginning Composition	3
ENG 201	Advanced Composition	3
CMM 103	Fund Speech-Communication	3
MTH 140	Applied Calculus	3
Core II Humanities		3
Core II Social Science		3
Core II Fine Arts		3
BSC 120 & BSC 120L	Principles of Biology I and Principles of Biology I Lab (Core II Physical/ Nat Science)	4
Additional University Requirements		
Writing Intensive		3
Writing Intensive		3
Multicultural or International		3
NRE 491	ES Senior Capstone	3
Major-Specific		
CIT 150	Spreadsheet and Database Apps	3
MTH 140	Applied Calculus	3
NRE 120	Discussion in Environ Sci (CT) (CT)	3
NRE 220	Human Dimensions Nat Res (CT) (CT)	3
CHM 211	Principles of Chemistry I	3
CHM 217	Principles of Chem Lab I	2
CHM 212	Principles Chemistry II	3
CHM 218	Principles of Chem Lab II	2
NRE 425	Water Policy and Regulations	3
NRRM 200	Analytical Methods: Statistics	4
NRE 323	Assessment II: Aquatic Ecology	4
NRE 423	GIS and Data Systems	3
NRE 470 or NRE 491	ES Internship (Senior Project) ES Senior Capstone	3
NRE 490	ES/NRRM Capstone Prep	3
Area of Emphasis-Specific		
BSC 120 & BSC 120L	Principles of Biology I and Principles of Biology I Lab	4
BSC 121 & BSC 121L	Principles of Biology II and Prin of Biology II Lab	4
PHY 201	College Physics I	3
PHY 202	General Physics I Laboratory	1
PHY 203	College Physics II	3
PHY 204	General Physics 2 Laboratory	1
BSC 320	Principles of Ecology	4
NRE 212	Energy	3
NRE 322	Assess I: Terrestrial Systems	4
GLY 200	The Dynamic Earth	3
GLY 210L	Earth Materials Lab	1
Major Elective		4
Major Elective		3
Major Elective		3
Major Elective		3
Major Elective		3
Free Elective		3
Free Elective		3

Major Information

- In addition to the Core General Education requirements, the College of Science requires 3 hours of Calculus, 8 additional hours of Natural or Physical Science, and 40 hours of upper level credit.
- Coursework listed as “elective” may vary for each student. Students are encouraged to use elective hours toward a 2nd minor or toward prerequisites.
- Students are strongly encouraged to select courses that meet two or more Core or College requirements. For example, a writing intensive literature course could satisfy the Core II Humanities requirement as well as the university writing intensive requirement.
- Course offerings and course attributes are subject to change each semester. Please consult each semester’s schedule of courses for availability and attributes.
- Math is based on an ACT Mathematics score of 27 or higher. Students with an ACT Mathematics score less than 27 will be placed in the appropriate mathematics and science courses.
- Electives: In consultation with the COS advisors, students will select electives from the College of Science offerings best suited to prepare students to apply for professional credentials as a certified ecologist, certified wildlife biologist, or certified fisheries

professional. Once a student has satisfied all of the requirements for one of these certifications, he or she should select additional electives in consultation with NRE/COS advisers to reach the 120 credit hours required for graduation. Additional electives may be used to satisfy general education requirements (e.g., writing intensive) and/or to fulfill the requirements of a second major, minor, or certificate.

- General Education Course

- Milestone course: a key success marker for your major. See your advisor to discuss the importance of this course in your plan of study.

Four Year Plan

The Bachelor of Science in Environmental Science degree is an integrated program requiring math, communication, and environmental studies courses and basic science courses from Geology, Biology, Chemistry, and Physics departments. The integrated coverage of broad topics prepare students for the complex problems facing a modern world. Areas of Emphasis help focus student efforts toward individual goals and interests with consideration to obtaining rewarding careers the fields of environmental science or conservation or pursuing advanced studies.

Course	Title	Credit Hours
First Year		
First Semester		
CIT 150	Spreadsheet and Database Apps	3
NRE 120	Discussion in Environ Sci (CT)	3
MTH 140	Applied Calculus	3
ENG 101	Beginning Composition	3
FYS 100	First Yr Sem Critical Thinking	3
UNI 100	Freshman First Class	1
	Credit Hours	**16**
Second Semester		
ENG 201	Advanced Composition	3
BSC 120 & BSC 120L	Principles of Biology I and Principles of Biology I Lab	4
GLY 200	The Dynamic Earth	3
GLY 210L	Earth Materials Lab	1
NRE 220	Human Dimensions Nat Res (CT) (CT)	3
	Credit Hours	**14**
Second Year		
First Semester		
CHM 211	Principles of Chemistry I	3
CHM 217	Principles of Chem Lab I	2
NRE 212	Energy	3
Core II Fine Arts		3
Core II Social Science (MC/I)		3
	Credit Hours	**14**
Second Semester		
BSC 121 & BSC 121L	Principles of Biology II and Prin of Biology II Lab	4
CHM 212	Principles Chemistry II	3
CHM 218	Principles of Chem Lab II	2
NRRM 200	Analytical Methods: Statistics	4
Core II Humanities (WI)		3
	Credit Hours	**16**
Third Year		
First Semester		
NRE 323	Assessment II: Aquatic Ecology	4
NRE 423	GIS and Data Systems	3
PHY 201	College Physics I	3
PHY 202	General Physics I Laboratory	1
Free Elective		3
	Credit Hours	**14**
Second Semester		
NRE 490	ES/NRRM Capstone Prep	3
NRE 322	Assess I: Terrestrial Systems	4
PHY 203	College Physics II	3
PHY 204	General Physics 2 Laboratory	1
CMM 103	Fund Speech-Communication	3
Writing Intensive		3
	Credit Hours	**17**
Fourth Year		
First Semester		
NRE 425	Water Policy and Regulations	3
BSC 320	Principles of Ecology	4
Major Elective		3
Major Elective		3
Major Elective		4
	Credit Hours	**17**
Second Semester		
NRE 470 or NRE 491	ES Internship (Senior Project) or ES Senior Capstone	3
Major Elective		3
Major Elective		3
Free Elective		3
	Credit Hours	**12**
	Total Credit Hours	**120**

Environmental Science, Minor

With global attention focused on environmental sustainability and limited natural resources, many students are interested in learning more about environmental science and pending environmental issues. This minor will offer foundational understanding of major concepts pertaining to ecosystem structure and function and impacts from human activity. The minor will allow students with interest in the field to apply the concepts in other disciplines, such as journalism, art or criminal justice. It will also provide opportunity for those not working in the area to better understand ongoing discussions on climate change and sustainability to be more informed citizens.

Students who wish to pursue a minor in Environmental Science will take 17 to 19 hours of Environmental Science credits covering major topics in the field. Courses will include:

Code	Title	Credit Hours
NRE 320	Nature Enviro Problems	3
NRE 322	Assess I: Terrestrial Systems	4
NRE 323	Assessment II: Aquatic Ecology	4
Students will complete 2 electives selected in consultation with NRE faculty for an additional 6 to 8 credit hours.		6-8
Total Credit Hours		**17-19**

Natural Resources and Recreation Management, B.S.

- General Education Course

- Milestone course: a key success marker for your major. See your advisor to discuss the importance of this course in your plan of study.

Major

The Core Curriculum is designed to foster critical thinking skills and introduce students to basic domains of thinking that transcend disciplines. The Core applies to all majors. Information on specific classes in the Core can be found at https://www.marshall.edu/gened/.

Code	Title	Credit Hours
Core Curriculum		
Core 1: Critical Thinking		
FYS 100	First Yr Sem Critical Thinking	3
NRE 220	Human Dimensions Nat Res (CT)	3
NRE 120	Discussion in Environ Sci (CT)	3
Core 2		
ENG 101	Beginning Composition	3
ENG 201	Advanced Composition	3
CMM 103	Fund Speech-Communication	3
Select one of the following:		4
MTH 127	College Algebra-Expanded	
MTH 130	College Algebra	
MTH 160	Applied Math Reasoning (CT)	
Core II Humanities		3
Core II Social Science		3
Core II Fine Arts		3
Core II Physical/Natural Science		4
Additional University Requirements		
Writing Intensive		3
Writing Intensive		3
Multicultural or International		3
NRRM 490	Internship (Capstone)	6
Major-Specific		
NRRM 101	Intro Natural Res & Rec Mgmt	3
NRE 120	Discussion in Environ Sci (CT)	3
CIT 150	Spreadsheet and Database Apps	3
NRE 423	GIS and Data Systems	3
NRRM 200	Analytical Methods: Statistics	4
NRE 111	Living Systems	4
NRRM 380	Rec Resource Oper. and Admin	3
NRE 220	Human Dimensions Nat Res (CT)	3
NRRM 350	Adventure Education Leadership	3
NRRM 361	Visitor Behavior in NRRM	3
NRRM 405	Park & Recreation Ecology	3
NRRM 411	Rec Resource Planning & Design	3
NRRM 310	Environmental Interpretation	3
NRRM 432	Wilderness/Protected Area Mgmt	3
NRRM 402	Research Eval & Assess in NRRM	3
NRRM 433	GIS/RS in Natural Resources	3
NRE 490	ES/NRRM Capstone Prep	3
300/400 NRRM Elective		3
300/400 NRRM Elective		3
300/400 NRRM Elective		3
Free Elective		3
Free Elective		3
Free Elective		3
Free Elective		3
Free Elective		2

Major Information

- **Capstone Experience:** It is the responsibility of each student to consult his/her advisor regarding details of meeting the capstone requirement. The Capstone for this degree is completed in the summer.
- Students are required to know and track their degree requirements for graduation or for entrance to a professional school.
- Coursework listed as "elective" may vary for each student. Students are encouraged to use elective hours toward a minor or toward prerequisites.
- Students are strongly encouraged to select courses that meet two or more Core or College requirements. For example, a writing intensive literature course could satisfy the Core II Humanities requirement as well as the university writing intensive requirement.
- Course offerings and course attributes are subject to change each semester. Please consult each semester's schedule of courses for availability and attributes.
- Minimum 2.0 overall and MU and in all NRRM coursework required for graduation.
- Minimum of 120 hours (40 upper level) required for graduation.

- General Education Course

- Milestone course: a key success marker for your major. See your advisor to discuss the importance of this course in your plan of study.

Four Year Plan

The Department of Natural Resources and the Environment offers a B.S. in Natural Resources and Recreation Management. The NRRM program is focused on the management of natural resource and

recreation areas such as parks, forests, coastal areas, and other natural areas located on public and private lands. The NRRM program offers an interdisciplinary Bachelor of Science degree, in which students will study the fields of natural resource management, recreation and leisure studies, environmental science, biology, sociology, psychology, and business. The program prepares qualified professionals for employment with municipal, state, or national park and recreation agencies, the US Forest Service, the US Army Corps of Engineers, nature centers, and a variety of tourism entities to name a few.

Course	Title	Credit Hours
First Year		
First Semester		
NRRM 101	Intro Natural Res & Rec Mgmt	3
NRE 120	Discussion in Environ Sci (CT) (CT)	3
FYS 100	First Yr Sem Critical Thinking	3
ENG 101	Beginning Composition	3
Core II Fine Arts		3
UNI 100	Freshman First Class	1
	Credit Hours	**16**
Second Semester		
CIT 150	Spreadsheet and Database Apps	3
CMM 103	Fund Speech-Communication	3
MTH 127	College Algebra-Expanded	5
NRE 220	Human Dimensions Nat Res (CT) (CT)	3
	Credit Hours	**14**
Second Year		
First Semester		
NRE 423	GIS and Data Systems	3
NRRM 200	Analytical Methods: Statistics	4
NRE 111	Living Systems	4
ENG 201	Advanced Composition	3
	Credit Hours	**14**
Second Semester		
NRRM 380	Rec Resource Oper. and Admin	3
Writing Intensive		3
Core II Physical/Natural Science		4
Core II Social Science (MC/I)		3
Free Elective		3
	Credit Hours	**16**
Third Year		
First Semester		
NRRM 350	Adventure Education Leadership	3
NRRM 361	Visitor Behavior in NRRM	3
Core II Humanities (WI)		3
300/400 NRRM Elective		3
Natural/Physical Science Elective		4
	Credit Hours	**16**
Second Semester		
NRRM 405	Park & Recreation Ecology	3
NRRM 411	Rec Resource Planning & Design	3
300/400 NRRM Elective		3
NRE 490	ES/NRRM Capstone Prep	3
Free Elective		3
	Credit Hours	**15**
Fourth Year		
First Semester		
NRRM 310	Environmental Interpretation	3
NRRM 432	Wilderness/Protected Area Mgmt	3
300/400 NRRM Elective		3
Free Elective		3
Free Elective		3
	Credit Hours	**15**
Second Semester		
NRRM 402	Research Eval & Assess in NRRM	3
NRRM 433	GIS/RS in Natural Resources	3
NRRM 490	Internship (C) (if not in Summer)	6
Free Elective		2
	Credit Hours	**14**
	Total Credit Hours	**120**

Natural Resources and Recreation Management, Minor

Students who wish to pursue a minor in Natural Resources and Recreation Management may do so by successfully completing the following courses:

Code	Title	Credit Hours
NRRM 101	Intro Natural Res & Rec Mgmt	3
Select one of the following:		3
NRRM 301	Intro to Outdoor Recreation	
NRRM 330	Concepts Philosophies in NRRM	
NRRM 350	Adventure Education Leadership	
Select one of the following:		3
NRRM 360	Tourism Planning & Management	
NRRM 361	Visitor Behavior in NRRM	
NRRM 362	Ecotourism: Admin and Mgmt	
Select one of the following:		3
NRRM 380	Rec Resource Oper. and Admin	
NRRM 410	Maint of Nat Res & Rec	
NRRM 411	Rec Resource Planning & Design	
Select one of the following:		3
NRRM 310	Environmental Interpretation	
NRRM 311	Intro to Environmental Educ	
NRRM 432	Wilderness/Protected Area Mgmt	
Total Credit Hours		**15**

Specialty Agriculture, B.S.

Specialty Agriculture

Specialty Agriculture in this context refers to sustainable, high-yield agriculture that can be economically sustainable in mountainous

regions and small land areas. The Bachelor of Science in Specialty Agriculture provides educational opportunities in agriculture, agribusiness, and agrotourism, covering both traditional and sustainable agricultural sciences. New and emerging technologies for high yield and specialty agriculture are emphasized, as they will improve agribusiness outcomes for smaller farms that are characteristic of the region. Focus of the major includes, but is not limited to, the agricultural aspects of greenhouse production, hydroponics, precision farming, urban agriculture, community gardens, and specialty crop production.

- General Education Course

- Milestone course: a key success marker for your major. See your advisor to discuss the importance of this course in your plan of study.

Major

The Core Curriculum is designed to foster critical thinking skills and introduce students to basic domains of thinking that transcend disciplines. The Core applies to all majors. Information on specific classes in the Core can be found at https://www.marshall.edu/gened/.

Code	Title	Credit Hours
Core Curriculum		
Core 1: Critical Thinking		
FYS 100	First Yr Sem Critical Thinking	3
NRE 220	Human Dimensions Nat Res (CT)	3
NRE 120	Discussion in Environ Sci (CT)	3
Core 2		
ENG 101	Beginning Composition	3
ENG 201	Advanced Composition	3
CMM 103	Fund Speech-Communication	3
Select one of the following:		4
MTH 140	Applied Calculus	
MTH 229	Calculus/Analytic Geom I (CT)	
Core II Humanities		3
Core II Social Science		3
GEO 222	Global Environment Issues (CT) (recommended)	
Core II Fine Arts		3
Core II Physical/Natural Science		4
Additional University Requirements		
Writing Intensive		3
GEO 222	Global Environment Issues (CT) (recommended)	
Writing Intensive		3
Multicultural or International		3
GEO 222	Global Environment Issues (CT) (recommended)	
Department Requirements		
CIT 150	Spreadsheet and Database Apps	3
NRE 120	Discussion in Environ Sci (CT)	3
NRE 220	Human Dimensions Nat Res (CT)	3
NRE 490	ES/NRRM Capstone Prep	3
NRE 470	ES Internship	3
or NRE 491	ES Senior Capstone	
NRRM 200	Analytical Methods: Statistics	4
Major-Specific Requirements		
BSC 120	Principles of Biology I	3
BSC 120L	Principles of Biology I Lab	1
BSC 121	Principles of Biology II	3
BSC 121L	Prin of Biology II Lab	1
CHM 211	Principles of Chemistry I	3
CHM 212	Principles Chemistry II	3
CHM 217	Principles of Chem Lab I	2
CHM 218	Principles of Chem Lab II	2
ENT 360	Intro to Entrepreneurship	3
MGT 320	Principles of Management	3
NRE 322	Assess I: Terrestrial Systems	4
NRE 323	Assessment II: Aquatic Ecology	4
NRE 200	Introduction to Agriculture	3
NRE 300	Principles of Soil Science	3
NRE 301	Principles of Soil Science Lab	2
NRE 302	Animal Production	3
NRE 401	Horticulture	4
NRE 402	Sustainable Agriculture	3
NRE 403	Agricultural Entomology	4
Major-Specific Electives		**12-14**
In consultation with the NRE/COS advisors, students will select electives from Marshall University offerings best suited to prepare students to apply for the following fields or professional credentials: nutrient management certification, outreach and education, agritourism, agribusiness, soil science professional, soil health, food security, animal production, and crop production. The student will select these electives in consultation with NRE/COS advisors to reach to 120 credit hours required for graduation. Additional electives may be used to satisfy general education requirements (e.g., writing intensive). A minimum of 40 hours must be 300-400 level courses. Below is a list of courses that could be considered; however, the list is not exhaustive and other courses can be considered based on consultation between the student and NRE/COS advisors.		
Nutrient Management		
GEO 101	Physical Geography (CT)	
GEO 222	Global Environment Issues (CT)	
GLY 455	Hydrogeology	
NRE 423	GIS and Data Systems	
NRE 425	Water Policy and Regulations	
NRE 400	Soil Fertility/Plant Nutrition	
Soil Health/Soil Science		
BSC 320	Principles of Ecology	
BSC 445	Microbial Ecology	
GEO 101	Physical Geography (CT)	
GLY 200	The Dynamic Earth	
GLY 314	Mineralogy	
GLY 455	Hydrogeology	
NRE 423	GIS and Data Systems	
NRE 400	Soil Fertility/Plant Nutrition	
Food Security		
DTS 202	Introductory Foods	

DTS 210	Nutrition
DTS 301	FS Safety & Systems Mgt I
DTS 302	FS Safety & Sys Mgt II
DTS 410	Cross Cultural Foods
GEO 222	Global Environment Issues (CT)
HST 390	Food in World History
HST 392	Food Markets and Modernity
Crop Production	
BSC 302	Principles of Microbiology
BSC 320	Principles of Ecology
BSC 322	Principles Cell Biology
BSC 324	Principles of Genetics
BSC 416	Plant Taxonomy
BSC 420	Plant Physiology
BSC 430	Plant Ecology
GEO 222	Global Environment Issues (CT)
HST 392	Food Markets and Modernity
NRE 425	Water Policy and Regulations
NRE 400	Soil Fertility/Plant Nutrition
Animal Production	
BSC 301	Vertebrate Embryology
BSC 302	Principles of Microbiology
BSC 320	Principles of Ecology
BSC 322	Principles Cell Biology
BSC 324	Principles of Genetics
BSC 401	Ichthyology
BSC 408	Ornithology
BSC 409	Mammalogy
BSC 422	Animal Physiology
BSC 424	Animal Parasitology
NRE 425	Water Policy and Regulations
GEO 222	Global Environment Issues (CT)
HST 392	Food Markets and Modernity
NRE 425	Water Policy and Regulations
NRE 400	Soil Fertility/Plant Nutrition
NRE 425	Water Policy and Regulations
NRE 400	Soil Fertility/Plant Nutrition
Agritourism	
ENT 320	Marketing for Entrepreneurs
MKT 231	Principles of Selling
MKT 340	MKT Concepts and Applications
NRRM 360	Tourism Planning & Management
NRRM 362	Ecotourism: Admin and Mgmt
Education and Outreach	
CI 248	Intro to Science Elem Ed
EDF 201	Ed Psych Developing Learner
GEO 222	Global Environment Issues (CT)
NRRM 231	Nature Study
NRRM 310	Environmental Interpretation
NRRM 311	Intro to Environmental Educ
Agribusiness	
DTS 202	Introductory Foods
HST 390	Food in World History
MKT 231	Principles of Selling
MKT 340	MKT Concepts and Applications

Major Information

- **Capstone Experience:** It is the responsibility of each student to consult his/her advisor regarding details of meeting the capstone requirement. The Capstone for this degree is completed in the summer.
- Students are required to know and track their degree requirements for graduation or for entrance to a professional school.
- Coursework listed as "elective" may vary for each student. Students are encouraged to use elective hours toward a minor or toward prerequisites.
- Students are strongly encouraged to select courses that meet two or more Core or College requirements. For example, a writing intensive literature course could satisfy the Core II Humanities requirement as well as the university writing intensive requirement.
- Course offerings and course attributes are subject to change each semester. Please consult each semester's schedule of courses for availability and attributes.
- Minimum 2.0 overall and MU and in all NRRM coursework required for graduation.
- Minimum of 120 hours (40 upper level) required for graduation.

- General Education Course

- Milestone course: a key success marker for your major. See your advisor to discuss the importance of this course in your plan of study.

Course	Title	Credit Hours
First Year		
First Semester		
CIT 150	Spreadsheet and Database Apps	3
NRE 120	Discussion in Environ Sci (CT)	3
MTH 140	Applied Calculus	3
ENG 101	Beginning Composition	3
FYS 100	First Yr Sem Critical Thinking	3
UNI 100	Freshman First Class	1
	Credit Hours	**16**
Second Semester		
ENG 201	Advanced Composition	3
CMM 103	Fund Speech-Communication	3
BSC 120	Principles of Biology I	3
BSC 120L	Principles of Biology I Lab	1
GEO 222	Global Environment Issues (CT) (WI)	3
NRE 220	Human Dimensions Nat Res (CT)	3
	Credit Hours	**16**
Second Year		
First Semester		
CHM 211	Principles of Chemistry I	3
CHM 217	Principles of Chem Lab I	2
Core II Humanities (WI)		3

Core II Fine Arts		3
NRE 200	Introduction to Agriculture	3
	Credit Hours	**14**
Second Semester		
BSC 121	Principles of Biology II	3
BSC 121L	Prin of Biology II Lab	1
CHM 212	Principles Chemistry II	3
CHM 218	Principles of Chem Lab II	2
NRRM 200	Analytical Methods: Statistics	4
NRE 302	Animal Production	3
	Credit Hours	**16**
Third Year		
First Semester		
NRE 323	Assessment II: Aquatic Ecology	4
NRE 300	Principles of Soil Science	3
NRE 301	Principles of Soil Science Lab	2
NRE 403	Agricultural Entomology	4
Major Specific Elective		4
	Credit Hours	**17**
Second Semester		
NRE 490	ES/NRRM Capstone Prep	3
NRE 322	Assess I: Terrestrial Systems	4
MGT 320	Principles of Management	3
Major Specific Elective		4
	Credit Hours	**14**
Fourth Year		
First Semester		
NRE 402	Sustainable Agriculture	3
ENT 360	Intro to Entrepreneurship	3
Major Specific Elective		3
Major Specific Elective		4
	Credit Hours	**13**
Second Semester		
NRE 470 or NRE 491	ES Internship or ES Senior Capstone	3
NRE 401	Horticulture	4
Writing Intensive		3
Major Specific Elective		4
Major Specific Elective		3
	Credit Hours	**17**
	Total Credit Hours	**123**

Department of Physics

Contacts: Dr. Que Huong Nguyen, Chair
Website: http://www.marshall.edu/physics (http://www.marshall.edu/physics/)

nguyenh@marshall.edu

The Department of Physics offers coursework leading toward the B.S. degree in physics, or the B.S. degree in physics with an Area of Emphasis in Applied Physics, Biophysics, Medical Imaging, and Medical Physics. The Department of Physics also offers a minor in physics and physical science, and provides courses in support of other programs in science and technology and courses for general education. A course of study in physics, resulting in a B.S. degree in physics, prepares students for a wide variety of opportunities, such as engineering careers in the private sector, careers in the health professions, employment in industry and government laboratories, advanced technology jobs in science and technology related fields, and careers as science teachers. The B.S. degree program is also excellent preparation for advanced degrees in physics, astronomy, engineering, medicine, or law.

In order to graduate, students must maintain a 2.00 Overall GPA and receive a grade of *C* or better in each course required for the major.

Related Programs Supported by the Department

The department also works closely with the College of Education and Professional Development, which offers a B.A. in Secondary Education through the Physics 9-Adult program; it is in this program where the Physics Department ensures students are well prepared to become teachers with a strong background in physics.

Programs

- Physics and Physical Science, Minor (p. 652)
- Physics, B.S. (p. 652)

Courses

- General Education Course

PHY 101 Conceptual Physics **3 Credit hours**
Introduces nonscience majors to applications of physics in life. Emphasizes conceptual understanding of basic principles in classical and modern physics. Recommended for science students with no high school physics.
Pre-req: (MTH 121 with a minimum grade of D or MTH 127 with a minimum grade of D or MTH 130 with a minimum grade of D or MTH 130E with a minimum grade of D or MTH 132 with a minimum grade of D or MTH 229 with a minimum grade of D or MTH 229H with a minimum grade of D or MTH 203 with a minimum grade of D or MTH 121B with a minimum grade of D) or MTH 130H with a minimum grade of D and PHY 101L (may be taken concurrently) with a minimum grade of D.
Concurrent PR: PHY 101L
Co-req: PHY 101L
Attributes: Natural Sciences, Core II Natural Sciences
Grade Mode: Normal Grading Mode

PHY 101L Conceptual Physics Lab **1 Credit hour**
Conceptual Physics Laboratory. A laboratory course designed to include the principles and applications of physics that are introduced in Physics 101. (CR: PHY 101) 2 lab. Conceptual Physics Laboratory. A laboratory course designed to include the principles and applications of physics that are introduced in Physics 101. (CR: PHY 101) 2 lab.
Co-req: PHY 101
Attributes: Natural Sciences, Core II Natural Sciences
Grade Mode: Normal Grading Mode

PHY 190 Overview of Physics (CT) **3 Credit hours**
An algebra-based overview of well-established topics studied as part of a major in physics, including classical physics, special relativity, quantum mechanics, particle physics, and cosmology.
Attributes: Critical Thinking
Grade Mode: Normal Grading Mode

PHY 201 College Physics I **3 Credit hours**
First half of an introduction to physics for life-science students, using algebra and trigonometry, including kinematics and dynamics, force, energy, rotation, fluids, waves, and therma phenomena.
Pre-req: (MTH 127 with a minimum grade of D and MTH 122 with a minimum grade of D) or (MTH 130 with a minimum grade of D and MTH 122 with a minimum grade of D) or MTH 132 with a minimum grade of D or (MTH 140 with a minimum grade of D and MTH 122 with a minimum grade of D) or MTH 229 with a minimum grade of D or MTH 229H with a minimum grade of D or MTH 140H with a minimum grade of D and PHY 202 (may be taken concurrently) with a minimum grade of D.
Concurrent PR: PHY 202
Attributes: Natural Sciences, Core II Natural Sciences
Grade Mode: Normal Grading Mode

PHY 202 General Physics I Laboratory **1 Credit hour**
Laboratory to accompany PHY 201 or PHY 211, focusing on mechanics concepts and applications.
Pre-req: PHY 201 (may be taken concurrently) with a minimum grade of D or PHY 211 (may be taken concurrently) with a minimum grade of D.
Concurrent PR: PHY 201 or PHY 211
Attributes: Natural Sciences, Core II Natural Sciences
Grade Mode: Normal Grading Mode

PHY 203 College Physics II **3 Credit hours**
Second half of an introduction to physics for life-science students, using algebra and trigonometry, including electric and magnetic fields, circuits, geometrical and physical optics, atomic and nuclear physics.
Pre-req: (PHY 201 with a minimum grade of C and PHY 202 with a minimum grade of C) and PHY 204 (may be taken concurrently) with a minimum grade of C.
Concurrent PR: PHY 204
Attributes: Natural Sciences, Core II Natural Sciences
Grade Mode: Normal Grading Mode

PHY 204 General Physics 2 Laboratory **1 Credit hour**
Laboratory to accompany PHY 203 or PHY 213, focusing on classical E&M, circuits, and optics.
Pre-req: (PHY 203 (may be taken concurrently) with a minimum grade of D or PHY 213 (may be taken concurrently) with a minimum grade of D).
Concurrent PR: PHY 203 or PHY 213
Attributes: Natural Sciences, Core II Natural Sciences
Grade Mode: Normal Grading Mode

PHY 211 University Physics I **4 Credit hours**
First half of an introduction to physics for physical science and engineering students, using calculus, and including kinematics and dynamics, force, energy, rotation, fluids, waves, and thermal phenomena.
Pre-req: (MTH 229 (may be taken concurrently) with a minimum grade of D or MTH 229H (may be taken concurrently) with a minimum grade of D) and PHY 202 (may be taken concurrently) with a minimum grade of D.
Concurrent PR: (MTH 229 or MTH 229H) and PHY 202
Attributes: Natural Sciences, Core II Natural Sciences
Grade Mode: Normal Grading Mode

PHY 213 University Physics II **4 Credit hours**
Second half of an introduction to physics for physical science or engineering students, using calculus, including electric and magnetic fields, circuits, geometrical and physical optics, atomic and nuclear physics.
Pre-req: MTH 230 (may be taken concurrently) and PHY 204 (may be taken concurrently) and (PHY 201 with a minimum grade of C or PHY 211 with a minimum grade of C) and PHY 202.
Concurrent PR: MTH 230 and PHY 204
Attributes: Natural Sciences, Core II Natural Sciences
Grade Mode: Normal Grading Mode

PHY 214 Lab Methods in Physics **1 Credit hour**
A laboratory course to accompany Physics 211-213. 3 lab. A laboratory course to accompany Physics 211-213. 3 lab.
Pre-req: PHY 213 (may be taken concurrently).
Concurrent PR: PHY 213
Attributes: Natural Sciences, Core II Natural Sciences
Grade Mode: Normal Grading Mode

PHY 222 Investigate the Universe **2 Credit hours**
A creative laboratory course designed to give students an opporutnity to work with modern research equipment, with ample time to conduct experiments and/or investigate phenomenae of their choosing.
Pre-req: (MTH 122 and MTH 127) or (MTH 122 and MTH 130) or MTH 132.
Grade Mode: Normal Grading Mode

PHY 261 Enhancement for Physics I **1 Credit hour**
Additional aspects in mechanics (calculus, array vectors and matrices, distributions), to make College Physics 1 equivalent to University Physics 1.
Pre-req: PHY 201 with a minimum grade of C or MTH 229 with a minimum grade of C.
Grade Mode: Normal Grading Mode

PHY 263 Enhancement for Physics II **1 Credit hour**
Additional aspects in E&M and Optics, Modern Physics, (calculus and multipole functions) to make College Physics 2 equivalent to University Physics 2.
Grade Mode: Normal Grading Mode

PHY 280 Special Topics **1-4 Credit hours**
Attributes: Natural Sciences
Grade Mode: Normal Grading Mode

PHY 281 Special Topics **1-4 Credit hours**
Attributes: Natural Sciences
Grade Mode: Normal Grading Mode

PHY 300 Electricity & Magnetism **3 Credit hours**
A course including the study of electrostatics, magnetostatics, electromagnetic induction, introduction to Maxwell's equations and electromagnetic waves. 3 lec. A course including the study of electrostatics, magneto- statics, electromagnetic induction, introduction to Maxwell's equations and electromagnetic waves. 3 lec.
Pre-req: (PHY 203 or PHY 213) and MTH 231.
Attributes: Natural Sciences
Grade Mode: Normal Grading Mode

PHY 302 Electricity & Magnetism II **3 Credit hours**
A study of Maxwell's equations and electromagnetic waves, radiation theory, optical phenomena, and electrodynamics. 3 lec. A study of Maxwell's equations and electromagnetic waves, radiation theory, optical phenomena, and electrodynamics. 3 lec.
Pre-req: PHY 300.
Attributes: Natural Sciences
Grade Mode: Normal Grading Mode

PHY 304 Optics **3 Credit hours**
An intermediate course in geometrical and physical optics. 3 lec. An intermediate course in geometrical and physical optics. 3 lec.
Pre-req: (PHY 203 or PHY 213) and (PHY 405 (may be taken concurrently) or PHY 505 (may be taken concurrently)).
Concurrent PR: PHY 405 or PHY 505
Attributes: Natural Sciences
Grade Mode: Normal Grading Mode

PHY 308 Thermal Physics **3 Credit hours**
A study of thermodynamics, kinetic theory of gases, and an introduction to statistical mechanics 3 lec.
Pre-req: (PHY 203 or PHY 213) and MTH 231.
Attributes: Natural Sciences
Grade Mode: Normal Grading Mode

PHY 314 Electronic Physics **3 Credit hours**
A study of transistors, integrated circuits and their associated circuits. 3 lec. A study of transistors, integrated circuits and their associated circuits. 3 lec.
Pre-req: PHY 203 with a minimum grade of D or PHY 213 with a minimum grade of D and PHY 415 (may be taken concurrently) with a minimum grade of D.
Concurrent PR: PHY 415
Attributes: Natural Sciences
Grade Mode: Normal Grading Mode

PHY 320 Intro Modern Physics **3 Credit hours**
An introductory study of atomic and molecular theories, relativity, quantum theory, and nuclear physics. 3 lec. An introductory study of atomic and molecular theories, relativity, quantum theory, and nuclear physics. 3 lec.
Pre-req: MTH 230 and (PHY 203 or PHY 213).
Co-req: PHY 421
Attributes: Natural Sciences
Grade Mode: Normal Grading Mode

PHY 330 Mechanics **3 Credit hours**
An intermediate study of the fundamental principles of statics of particles and rigid bodies, momentum and energy, dynamics of particles, harmonic oscillations, and wave motion. 3 lec. An intermediate study of the fundamental principles of statics of particles and rigid bodies, momentum and energy, dynamics of particles, harmonic oscillations, and wave motion. 3 lec.
Pre-req: MTH 231 and (PHY 203 or PHY 213).
Attributes: Natural Sciences
Grade Mode: Normal Grading Mode

PHY 340 Scientific Computing **3 Credit hours**
Introduction to some of the most important tools and techniques in scientific computing, including object-oriented design, version control, and MPI for high-performance computing.
Pre-req: MTH 229 with a minimum grade of D or MTH 229H with a minimum grade of D or IST 163 with a minimum grade of D.
Grade Mode: Normal Grading Mode

PHY 350 Biological Physics **3 Credit hours**
Physical principles underlying the mechanisms by which living organisms survive, adapt, grow. Will enhance writing skills and strategies. 2 lec - 2 lab. (PR: PHY 203 or 213, and PHY 204)
Pre-req: PHY 203 (may be taken concurrently) or PHY 213 (may be taken concurrently) and PHY 204.
Concurrent PR: PHY 203 or PHY 213
Attributes: Natural Sciences
Grade Mode: Normal Grading Mode

PHY 360 Medical Physics **3 Credit hours**
Physical principles applied to devise methods for diagnostic and treatment of the human body. Will enhance writing skills and strategies.
Pre-req: (PHY 203 with a minimum grade of D or PHY 213 with a minimum grade of D) and PHY 204 with a minimum grade of D.
Grade Mode: Normal Grading Mode

PHY 405 Optics Lab **2 Credit hours**
A course in optical experiments encompassing geometrical and physical optics. This course is to be taken with Physics 304.
Pre-req: PHY 304 (may be taken concurrently).
Concurrent PR: PHY 304
Attributes: Natural Sciences
Grade Mode: Normal Grading Mode

PHY 408 Thermal Stat Physics **3 Credit hours**
Introduction to Thermodynamics, kinetic theory of gases, classical and quantum statistical mechanics, Bose-Einstein and Fermi-Dirac statistics, and application. 3 lec.
Pre-req: MTH 231 with a minimum grade of D and (PHY 203 with a minimum grade of D and PHY 213 with a minimum grade of D).
Grade Mode: Normal Grading Mode

PHY 415 Electronics Lab **2 Credit hours**
A course in laboratory measurements encompassing transistors, integrated circuits, and their associated circuits. This course is to be taken with Physics 314.
Pre-req: PHY 314 (may be taken concurrently) with a minimum grade of D.
Concurrent PR: PHY 314
Attributes: Natural Sciences
Grade Mode: Normal Grading Mode

PHY 420 Astrophysics **3 Credit hours**
A detailed study of core problems in Astrophysics such as orbital dynamics, radiation processes, stellar structure and evolution, galactic dynamics, and cosmology.
Pre-req: PHY 213 with a minimum grade of D and MTH 231 with a minimum grade of D.
Grade Mode: Normal Grading Mode

PHY 421 Modern Physics Lab **2 Credit hours**
Laboratory exercises on modern physics topics encompassing both experiments of historic significance and current applications. To be taken with Physics 320, or equivalent.
Co-req: PHY 320
Attributes: Natural Sciences
Grade Mode: Normal Grading Mode

PHY 425 Solid State Physics **3 Credit hours**
The course provides a broad introduction to the structure and physical properties of solids. It also serves as a basis for advanced courses in solid state and condensed matter physics. The course provides a broad introduction to the structure and physical properties of solids. It also serves as a basis for advanced courses in solid state and condensed matter physics.
Pre-req: PHY 320 or PHY 442 or CHM 442.
Attributes: Natural Sciences
Grade Mode: Normal Grading Mode

PHY 435 Computational Physics **3 Credit hours**
A course on using numerical methods and computer programming languages for solving complex physics problems and for the simulation of various physical processes. 2 lec-2 lab.
Pre-req: PHY 213 with a minimum grade of D and PHY 330 with a minimum grade of D and (PHY 445 with a minimum grade of D or PHY 446 with a minimum grade of D) and MTH 231 with a minimum grade of D.
Grade Mode: Normal Grading Mode

PHY 442 Quantum Mechanics **3 Credit hours**
A study of waves and particles, the Schroedinger and Heisenberg formulations, particles in potential fields, scattering and perturbation theories, and application to atomic and nuclear structure. 3 lec. A study of waves and particles, the Schroedinger and Heisenberg formulations, particles in potential fields, scattering and perturbation theories, and application to atomic and nuclear structure. 3 lec.
Pre-req: MTH 335 and PHY 330.
Attributes: Natural Sciences
Grade Mode: Normal Grading Mode

PHY 443 Quantum Mechanics II **3 Credit hours**
This is the second part of a two-semester introduction to quantum mechanics. Emphasis is on applications of quantum theory including approximation techniques and the study of more realistic quantum systems. This is the second part of a two-semester introduction to quantum mechanics. Emphasis is on applications of quantum theory including approximation techniques and the study of more realistic quantum systems.
Pre-req: PHY 442 with a minimum grade of D or CHM 442 with a minimum grade of D.
Grade Mode: Normal Grading Mode

PHY 444 Advanced Laboratory **2 Credit hours**
Developments in producing and detecting correlated photon pairs has enabled implementation of undergraduate laboratories demonstrating fundamental quantum mechanical principles. This laboratory also incorporates fundamental solid state and materials science experiments.
Pre-req: PHY 425 (may be taken concurrently) and PHY 442 (may be taken concurrently).
Concurrent PR: PHY 425 and PHY 442
Co-req: PHY 425, PHY 442
Grade Mode: Normal Grading Mode

PHY 445 Math Methods of Physics **3 Credit hours**
An introduction to theory of orthogonal functions, curvilinear coordinate systems, vector and tensor fields, and their applications in physics. Problems are drawn from different areas of physics. 3 lec. An introduction to theory of orthogonal functions, curvilinear coordinate systems, vector and tensor fields, and their applications in physics. Problems are drawn from different areas of physics. 3 lec.
Pre-req: PHY 203 or PHY 213 and MTH 231.
Attributes: Natural Sciences
Grade Mode: Normal Grading Mode

PHY 446 Math Methods of Physics II **3 Credit hours**
A second semester of a full year course on methods of solving problems in physics: calculus of variations, ordinary and partial differential equations, and special functions with real physics problems.
Pre-req: PHY 445.
Grade Mode: Normal Grading Mode

PHY 447 Mechanics for Teachers **4 Credit hours**
An indepth study of mechanics for education majors specializing in Physics with emphasis on problem solving techniques, demonstrations, experiments and computer applications. (PR: PHY 203, MTH 122 and MTH 140) An indepth study of mechanics for education majors specializing in Physics with emphasis on problem solving techniques, demonstrations, experiments and computer applications. (PR: PHY 203, MTH 122 and MTH 140)
Pre-req: PHY 203 or PHY 213.
Attributes: Natural Sciences
Grade Mode: Normal Grading Mode

PHY 480 Special Topics **2-4 Credit hours**
By permission of department chairman. By permission of department chairman.
Attributes: Natural Sciences
Grade Mode: Normal Grading Mode

PHY 481 Special Topics **1-4 Credit hours**
By permission of department chairman. By permission of department chairman.
Attributes: Natural Sciences
Grade Mode: Normal Grading Mode

PHY 482 Special Topics **1-4 Credit hours**
By permission of department chairman. By permission of department chairman.
Attributes: Natural Sciences
Grade Mode: Normal Grading Mode

PHY 483 Special Topics **1-4 Credit hours**
By permission of department chairman. By permission of department chairman.
Attributes: Natural Sciences
Grade Mode: Normal Grading Mode

PHY 485 Independent Study **1-4 Credit hours**
Attributes: Natural Sciences
Grade Mode: Normal Grading Mode

PHY 486 Independent Study **1-4 Credit hours**
Attributes: No Textbook Required, Natural Sciences
Grade Mode: Normal Grading Mode

PHY 487 Independent Study **1-4 Credit hours**
Attributes: Natural Sciences
Grade Mode: Normal Grading Mode

PHY 488 Independent Study **1-4 Credit hours**
Attributes: Natural Sciences
Grade Mode: Normal Grading Mode

PHY 491 Capstone **1-2 Credit hours**
To give a capstone expeience to physics majors in their junior or senior years by applying the principles of physics to the solution of real life problems. (PR: CSD 203, or 218 and lab). To give a capstone expeience to physics majors in their junior or senior years by applying the principles of physics to the solution of real life problems. (PR: CSD 203, or 218 and lab).
Attributes: Capstone Course, Natural Sciences
Grade Mode: Normal Grading Mode

PHY 492 Capstone **1-2 Credit hours**
To give a capstone experience to physics majors in their junior or senior years by applying the principles of physics to the solution of real life problems. (PR: PHY 491) To give a capstone experience to physics majors in their junior or senior years by applying the principles of physics to the solution of real life problems. (PR: PHY 491)
Pre-req: PHY 491 with a minimum grade of D.
Attributes: Capstone Course, No Textbook Required, Natural Sciences
Grade Mode: Normal Grading Mode

Faculty

Professor
Hamilton, Nguyen, Wilson

Associate Professor
Fan, Saken

Assistant Professor
Foltz, S. P. McBride, S. T. McBride, Richards, Wehner

Physics and Physical Science, Minor

The Department of Physics awards a minor in physics and physical science to students who have completed the following courses with at least a *C* average:

Code	Title	Credit Hours
PHY 201	College Physics I	3
or PHY 211	University Physics I	
PHY 202	General Physics I Laboratory	1
PHY 203	College Physics II	3
or PHY 213	University Physics II	
PHY 204	General Physics 2 Laboratory	1
300/400 Physics or Physical Science		3
Total Credit Hours		**14**

Physics, B.S.

- General Education Course

- Milestone course: a key success marker for your major. See your advisor to discuss the importance of this course in your plan of study.

Major

The Core Curriculum is designed to foster critical thinking skills and introduce students to basic domains of thinking that transcend disciplines. The Core applies to all majors. Information on specific classes in the Core can be found at https://www.marshall.edu/gened/.

Code	Title	Credit Hours
Core Curriculum		
Core 1: Critical Thinking		
FYS 100	First Yr Sem Critical Thinking	3
MTH 229	Calculus/Analytic Geom I (CT)	5
Critical Thinking Course		3
Core 2		
ENG 101	Beginning Composition	3
ENG 201	Advanced Composition	3
Core II Communication		3
MTH 229	Calculus/Analytic Geom I (CT)	5
Core II Humanities		3
Core II Social Science		3
Core II Fine Arts		3
PHY 211 & PHY 202	University Physics I and General Physics I Laboratory (Core II Physical/Natural Science)	5
Additional University Requirements		
Writing Intensive		3
Writing Intensive		3
Multicultural or International		3
PHY 491 & PHY 492	Capstone and Capstone	2
Major-Specific		
PHY 211	University Physics I	4
PHY 202	General Physics I Laboratory	1
PHY 213	University Physics II	4
PHY 204	General Physics 2 Laboratory	1
PHY 304	Optics	3
PHY 405	Optics Lab	2
PHY 308	Thermal Physics	3
PHY 300	Electricity & Magnetism	3
PHY 330	Mechanics	3
PHY 320	Intro Modern Physics	3
PHY 421	Modern Physics Lab	2
PHY 442	Quantum Mechanics	3
PHY 445	Math Methods of Physics	3

PHY 446	Math Methods of Physics II	3
PHY 302	Electricity & Magnetism II	3
PHY 443	Quantum Mechanics II	3
PHY 491 & PHY 492	Capstone and Capstone	2
MTH 230	Calculus/Analytic Geom II	4
MTH 231	Calculus/Analytic Geom III	4
MTH 335	Ordinary Diff Equations	3
CHM 211	Principles of Chemistry I (Recommended)	3
CHM 217	Principles of Chem Lab I (Recommended)	2
CHM 212	Principles Chemistry II (Recommended)	3
CHM 218	Principles of Chem Lab II (Recommended)	2
PHY Elective		5
PHY 425 & PHY 444	Solid State Physics and Advanced Laboratory (Recommended)	
Free Elective		4
Free Elective		3
Free Elective		3

Major Information

- Students are required to know and track their degree requirements for graduation or for entrance to a professional school.
- In addition to the Core General Education requirements, the College of Science requires 3 hours of Calculus, coursework listed as "elective" may vary for each student. Students are encouraged to use elective hours toward a 2nd minor or toward prerequisites.
- Students are strongly encouraged to select courses that meet two or more Core or College requirements. For example, a writing intensive literature course could satisfy the Core II humanities requirement as well as the university writing intensive requirement.
- Course offerings and course attributes are subject to change each semester. Please consult each semester's schedule of courses for availability and attributes.
- Math is based on an ACT Mathematics score of 27 or higher. Students with an ACT Mathematics score less than 27 will be placed in the appropriate prerequisite mathematics and science courses.
- In order to graduate, students must maintain a 2.00 Overall GPA and receive a grade of *C* or better in each course required for the major.
- Advanced physics courses are offered every two to three semesters; check with the Physics Department for availability.
- Let the Department Chair know if you have an interest in a particular elective course as soon as possible.

Areas of Emphasis

- Applied Physics, Emphasis (p. 654)
- Bio Physics, Emphasis (p. 656)
- Medical Imaging, Emphasis (p. 657)
- Medical Physics, Emphasis (p. 659)

- General Education Course

- Milestone course: a key success marker for your major. See your advisor to discuss the importance of this course in your plan of study.

Four Year Plan

A course of study in physics, resulting in a B.S. degree in physics, prepares students for a wide variety of opportunities, such as engineering careers in the private sector, careers in the health professions, employment in industry and government laboratories, advanced technology jobs in science and technology related fields, and careers as science teachers. The B.S. degree program is also excellent preparation for advanced degrees in physics, astronomy, engineering, medicine, or law. Physics is designed for those who are interested in future study or work in a pure physics or physics-related field.

Course	Title	Credit Hours
First Year		
First Semester		
PHY 202	General Physics I Laboratory	1
PHY 211	University Physics I	4
MTH 229	Calculus/Analytic Geom I (CT)	5
FYS 100	First Yr Sem Critical Thinking	3
ENG 101	Beginning Composition	3
UNI 100	Freshman First Class	1
	Credit Hours	**17**
Second Semester		
MTH 230	Calculus/Analytic Geom II	4
PHY 204	General Physics 2 Laboratory	1
PHY 213	University Physics II	4
ENG 201	Advanced Composition	3
Core I Critical Thinking		3
	Credit Hours	**15**
Second Year		
First Semester		
MTH 231	Calculus/Analytic Geom III	4
PHY 320	Intro Modern Physics	3
PHY 421	Modern Physics Lab	2
PHY 445	Math Methods of Physics	3
Core II Communication		3
	Credit Hours	**15**
Second Semester		
PHY 446	Math Methods of Physics II	3
PHY 304	Optics	3
PHY 405	Optics Lab	2
MTH 335	Ordinary Diff Equations	3
Core II Social Science		3
Writing Intensive Elective		3
	Credit Hours	**17**
Third Year		
First Semester		
PHY 308	Thermal Physics	3
PHY 330	Mechanics	3
PHY 300	Electricity & Magnetism	3
Writing Intensive Elective		3
Free Elective		3
	Credit Hours	**15**

Second Semester		
PHY 302	Electricity & Magnetism II	3
PHY 442	Quantum Mechanics	3
Core II Humanities		3
Multicultural or International		3
Core II Fine Arts		3
	Credit Hours	**15**
Fourth Year		
First Semester		
PHY 443	Quantum Mechanics II	3
PHY 491	Capstone	1
CHM 211	Principles of Chemistry I (Recommended)	3
CHM 217	Principles of Chem Lab I (Recommended)	2
PHY Elective:		5
PHY 425 & PHY 444	Solid State Physics and Advanced Laboratory (Recommended)	
	Credit Hours	**14**
Second Semester		
CHM 212	Principles Chemistry II (Recommended)	3
CHM 218	Principles of Chem Lab II (Recommended)	2
PHY 492	Capstone	1
Free Elective		4
Free Elective		3
	Credit Hours	**13**
	Total Credit Hours	**121**

Applied Physics, Emphasis

- General Education Course

- Milestone course: a key success marker for your major. See your advisor to discuss the importance of this course in your plan of study.

Major

The Core Curriculum is designed to foster critical thinking skills and introduce students to basic domains of thinking that transcend disciplines. The Core applies to all majors. Information on specific classes in the Core can be found at https://www.marshall.edu/gened/.

Code	Title	Credit Hours
Core Curriculum		
Core 1: Critical Thinking		
FYS 100	First Yr Sem Critical Thinking	3
MTH 229	Calculus/Analytic Geom I (CT)	5
Critical Thinking Course		3
Core 2		
ENG 101	Beginning Composition	3
ENG 201	Advanced Composition	3
Core II Communication		3
MTH 229	Calculus/Analytic Geom I (CT)	5
Core II Humanities		3
Core II Social Science		3
Core II Fine Arts		3
CHM 211 & CHM 217	Principles of Chemistry I and Principles of Chem Lab I (Core II Natural/ Physical Science)	5
Additional University Requirements		
Writing Intensive		3
Writing Intensive		3
Multicultural or International		3
PHY 491 & PHY 492	Capstone and Capstone	2
Major-Specific		
CHM 211	Principles of Chemistry I	3
CHM 217	Principles of Chem Lab I	2
CHM 212	Principles Chemistry II	3
CHM 218	Principles of Chem Lab II	2
ENGR 111	Engineering Computations	3
CIT 163	Intro to Programming: C++	3
MTH 230	Calculus/Analytic Geom II	4
CS 120	Computer Science II	3
CS 210	Data Structures and Algorithms	3
MTH 231	Calculus/Analytic Geom III	4
MTH 335	Ordinary Diff Equations	3
PHY 211	University Physics I	4
PHY 202	General Physics I Laboratory	1
PHY 213	University Physics II	4
PHY 204	General Physics 2 Laboratory	1
PHY 308	Thermal Physics	3
PHY 304	Optics	3
PHY 405	Optics Lab	2
PHY 300	Electricity & Magnetism	3
PHY 330	Mechanics	3
PHY 320	Intro Modern Physics	3
PHY 421	Modern Physics Lab	2
PHY 425	Solid State Physics	3
PHY 442	Quantum Mechanics	3
PHY 444	Advanced Laboratory	2
PHY 445	Math Methods of Physics	3
PHY 446	Math Methods of Physics II	3
PHY 491 & PHY 492	Capstone and Capstone	2
PHY Elective		5
PHY 314 & PHY 415	Electronic Physics and Electronics Lab (Recommended)	
Free Elective		3
Free Elective		3

Major Information

- Students are required to know and track their degree requirements for graduation or for entrance to a professional school.
- In addition to the Core General Education requirements, the College of Science requires 3 hours of Calculus, and 40 hours of upper level credit.

- Coursework listed as "elective" may vary for each student. Students are encouraged to use elective hours toward a 2nd minor or toward prerequisites.
- Students are strongly encouraged to select courses that meet two or more Core or College requirements. For example, a writing intensive literature course could satisfy the Core II Humanities requirement as well as the university writing intensive requirement.
- Course offerings and course attributes are subject to change each semester. Please consult each semester's schedule of courses for availability and attributes.
- Math is based on an ACT Mathematics score of 27 or higher. Students with an ACT Mathematics score less than 27 will be placed in the appropriate prerequisite mathematics and science courses.
- In order to graduate, students must maintain a 2.00 Overall GPA and receive a grade of *C* or better in each course required for the major.
- Advanced physics courses are offered every two to three semesters; check with the Physics Department for availability.
- Let the Department Chair know if you have an interest in a particular elective course as soon as possible.

- General Education Course

- Milestone course: a key success marker for your major. See your advisor to discuss the importance of this course in your plan of study.

Four Year Plan

A course of study in physics, resulting in a B.S. degree in physics, prepares students for a wide variety of opportunities, such as engineering careers in the private sector, careers in the health professions, employment in industry and government laboratories, advanced technology jobs in science and technology related fields, and careers as science teachers. The B.S. degree program is also excellent preparation for advanced degrees in physics, astronomy, engineering, medicine, or law. The Applied Physics major is designed for those who are interested in future study or work in an applied physics or engineering field.

Course	Title	Credit Hours
First Year		
First Semester		
PHY 211	University Physics I	4
PHY 202	General Physics I Laboratory	1
MTH 229	Calculus/Analytic Geom I (CT)	5
FYS 100	First Yr Sem Critical Thinking	3
ENG 101	Beginning Composition	3
UNI 100	Freshman First Class	1
	Credit Hours	**17**
Second Semester		
MTH 230	Calculus/Analytic Geom II	4
PHY 204	General Physics 2 Laboratory	1
PHY 213	University Physics II	4
ENG 201	Advanced Composition	3
Core I Critical Thinking (MC/I)		3
	Credit Hours	**15**
Second Year		
First Semester		
MTH 231	Calculus/Analytic Geom III	4
PHY 320	Intro Modern Physics	3
PHY 421	Modern Physics Lab	2
PHY 445	Math Methods of Physics	3
Core II Social Science (WI)		3
	Credit Hours	**15**
Second Semester		
PHY 446	Math Methods of Physics II	3
PHY 304	Optics	3
PHY 405	Optics Lab	2
MTH 335	Ordinary Diff Equations	3
CIT 163	Intro to Programming: C++	3
	Credit Hours	**14**
Third Year		
First Semester		
PHY 330	Mechanics	3
PHY 300	Electricity & Magnetism	3
PHY 308	Thermal Physics	3
CS 120	Computer Science II	3
Core II Communication		3
	Credit Hours	**15**
Second Semester		
PHY Elective		5
PHY 314 & PHY 415	Electronic Physics and Electronics Lab (Recommended)	
PHY 442	Quantum Mechanics	3
ENGR 111	Engineering Computations	3
CS 210	Data Structures and Algorithms	3
	Credit Hours	**14**
Fourth Year		
First Semester		
PHY 491	Capstone	1
PHY 425	Solid State Physics	3
PHY 444	Advanced Laboratory	2
CHM 211	Principles of Chemistry I	3
CHM 217	Principles of Chem Lab I	2
Free Elective (CIT Recommended)		3
Writing Intensive		3
	Credit Hours	**17**
Second Semester		
PHY 492	Capstone	1
CHM 212	Principles Chemistry II	3
CHM 218	Principles of Chem Lab II	2
Core II Humanities (WI)		3
Free Elective (CIT Recommended)		3
Core II Fine Arts		3
	Credit Hours	**15**
	Total Credit Hours	**122**

Bio Physics, Emphasis

- General Education Course

- Milestone course: a key success marker for your major. See your advisor to discuss the importance of this course in your plan of study.

Major

The Core Curriculum is designed to foster critical thinking skills and introduce students to basic domains of thinking that transcend disciplines. The Core applies to all majors. Information on specific classes in the Core can be found at https://www.marshall.edu/gened/.

Code	Title	Credit Hours
Core Curriculum		
Core 1: Critical Thinking		
FYS 100	First Yr Sem Critical Thinking	3
MTH 229	Calculus/Analytic Geom I (CT)	5
Critical Thinking Course		3
Core 2		
ENG 101	Beginning Composition	3
ENG 201	Advanced Composition	3
Core II Communication		3
MTH 229	Calculus/Analytic Geom I (CT)	5
Core II Humanities		3
Core II Social Science		3
Core II Fine Arts		3
BSC 120	Principles of Biology I (Core II Natural/Physical Science)	3
BSC 120L	Principles of Biology I Lab	1
Additional University Requirements		
PHY 350	Biological Physics (Writing Intensive)	3
Writing Intensive		3
Multicutural or International		3
PHY 491 & PHY 492	Capstone and Capstone	2
Major-Specific		
BSC 120	Principles of Biology I	3
BSC 120L	Principles of Biology I Lab	1
BSC 121	Principles of Biology II	3
BSC 121L	Prin of Biology II Lab	1
BSC 322	Principles Cell Biology	4
CHM 211	Principles of Chemistry I	3
CHM 212	Principles Chemistry II	3
CHM 217	Principles of Chem Lab I	2
CHM 218	Principles of Chem Lab II	2
PHY 211	University Physics I	4
PHY 202	General Physics I Laboratory	1
PHY 213	University Physics II	4
PHY 204	General Physics 2 Laboratory	1
PHY 304	Optics	3
PHY 405	Optics Lab	2
PHY 300	Electricity & Magnetism	3
PHY 308	Thermal Physics	3
PHY 330	Mechanics	3
PHY 320	Intro Modern Physics	3
PHY 350	Biological Physics (WI)	3
PHY 421	Modern Physics Lab	2
PHY 442	Quantum Mechanics	3
PHY 445	Math Methods of Physics	3
PHY 446	Math Methods of Physics II	3
PHY 491	Capstone	1
PHY 492	Capstone	1
Physics Elective		3
Physics Elective		3
MTH 230	Calculus/Analytic Geom II	4
MTH 231	Calculus/Analytic Geom III	4
BSC 417	Biostatistics	3
Free Elective (BSC recommended for Minor)		4
Free Elective		3
Free Elective		3
Free Elective		3
Free Elective		2

Major Information

- Students are required to know and track their degree requirements for graduation or for entrance to a professional school.
- In addition to the Core General Education requirements, the College of Science requires 3 hours of Calculus, and 40 hours of upper level credit.
- Coursework listed as “elective” may vary for each student. Students are encouraged to use elective hours toward a 2nd minor or toward prerequisites.
- Students are strongly encouraged to select courses that meet two or more Core or College requirements. For example, a writing intensive literature course could satisfy the Core II humanities requirement as well as the university writing intensive requirement.
- Course offerings and course attributes are subject to change each semester. Please consult each semester’s schedule of courses for availability and attributes.
- Math is based on an ACT Mathematics score of 27 or higher. Students with an ACT Mathematics score less than 27 will be placed in the appropriate prerequisite mathematics and science courses.
- In order to graduate, students must maintain a 2.00 Overall GPA and receive a grade of *C* or better in each course required for the major.
- Advanced physics courses are offered every two to three semesters; check with the Physics Department for availability.
- Let the Department Chair know if you have an interest in a particular elective course as soon as possible.

Four Year Plan

A course of study in physics, resulting in a B.S. degree in physics, prepares students for a wide variety of opportunities, such as engineering careers in the private sector, careers in the health professions, employment in industry and government laboratories,

advanced technology jobs in science and technology related fields, and careers as science teachers. The B.S. degree program is also excellent preparation for advanced degrees in physics, astronomy, engineering, medicine, or law. Bio Physics is designed for those who are interested in future study or work in a biophysics or biotechnological field.

Course	Title	Credit Hours
First Year		
First Semester		
PHY 211	University Physics I	4
PHY 202	General Physics I Laboratory	1
MTH 229	Calculus/Analytic Geom I (CT)	5
FYS 100	First Yr Sem Critical Thinking	3
ENG 101	Beginning Composition	3
UNI 100	Freshman First Class	1
	Credit Hours	**17**
Second Semester		
MTH 230	Calculus/Analytic Geom II	4
PHY 204	General Physics 2 Laboratory	1
PHY 213	University Physics II	4
ENG 201	Advanced Composition	3
Core II Social Science (MC/I)		3
	Credit Hours	**15**
Second Year		
First Semester		
MTH 231	Calculus/Analytic Geom III	4
PHY 320	Intro Modern Physics	3
PHY 421	Modern Physics Lab	2
PHY 445	Math Methods of Physics	3
CHM 211	Principles of Chemistry I	3
CHM 217	Principles of Chem Lab I	2
	Credit Hours	**17**
Second Semester		
PHY 446	Math Methods of Physics II	3
CHM 212	Principles Chemistry II	3
CHM 218	Principles of Chem Lab II	2
PHY 304	Optics	3
PHY 405	Optics Lab	2
	Credit Hours	**13**
Third Year		
First Semester		
BSC 120	Principles of Biology I	3
BSC 120L	Principles of Biology I Lab	1
PHY 300	Electricity & Magnetism	3
Core II Humanities (WI, CT)		3
PHY 308	Thermal Physics	3
PHY 330	Mechanics	3
	Credit Hours	**16**
Second Semester		
BSC 121	Principles of Biology II	3
BSC 121L	Prin of Biology II Lab	1
PHY 350	Biological Physics (WI)	3
PHY 442	Quantum Mechanics	3
Core II Communication		3
CHM 355	Organic Chemistry I	3
	Credit Hours	**16**
Fourth Year		
First Semester		
PHY 491	Capstone	1
PHY Elective		3
BSC 322	Principles Cell Biology	4
Core II Fine Arts		3
Free Elective		3
	Credit Hours	**14**
Second Semester		
PHY 492	Capstone	1
PHY Elective		3
BSC 417	Biostatistics	3
Free Elective (BCS recommended for Minor)		4
Free Elective		3
	Credit Hours	**14**
	Total Credit Hours	**122**

Medical Imaging, Emphasis

- General Education Course

- Milestone course: a key success marker for your major. See your advisor to discuss the importance of this course in your plan of study.

Major

The Core Curriculum is designed to foster critical thinking skills and introduce students to basic domains of thinking that transcend disciplines. The Core applies to all majors. Information on specific classes in the Core can be found at https://www.marshall.edu/gened/.

Code	Title	Credit Hours
Core Curriculum		
Core 1: Critical Thinking		
FYS 100	First Yr Sem Critical Thinking	3
MTH 229	Calculus/Analytic Geom I (CT)	5
Critical Thinking Course		3
Core 2		
ENG 101	Beginning Composition	3
ENG 201	Advanced Composition	3
Core II Communication		3
MTH 229	Calculus/Analytic Geom I (CT)	5
Core II Humanities		3
Core II Social Science		3
Core II Fine Arts		3
BSC 228 & BSC 228L	Human Physiology and Human Physiology Lab (Core II Natural/)	4
Additional University Requirements		
MI 411	Transcultural Healthcare (WI)	3

Writing Intensive		3
Multicultural or International		3
PHY 491 & PHY 492	Capstone and Capstone	2
Major-Specific		
PHY 202	General Physics I Laboratory	1
PHY 211	University Physics I	4
PHY 204	General Physics 2 Laboratory	1
PHY 213	University Physics II	4
PHY 300	Electricity & Magnetism	3
PHY 302	Electricity & Magnetism II	3
PHY 304	Optics	3
PHY 405	Optics Lab	2
PHY 308	Thermal Physics	3
PHY 320	Intro Modern Physics	3
PHY 330	Mechanics	3
PHY 360	Medical Physics	3
PHY 421	Modern Physics Lab	2
PHY 491 & PHY 492	Capstone and Capstone (C)	2
PHY 442	Quantum Mechanics	3
PHY 445	Math Methods of Physics	3
PHY 446	Math Methods of Physics II	3
MTH 230	Calculus/Analytic Geom II	4
MTH 231	Calculus/Analytic Geom III	4
BSC 227 & BSC 227L	Human Anatomy and Human Anatomy Lab	4
BSC 228 & BSC 228L	Human Physiology and Human Physiology Lab	4
STA 345	Applied Prob and Stat	3
MI 201	Intro to Radiography	3
MI 202	Patient Care Img Science	3
MI 204	Radiographic Anatomy	3
MI 205	Imaging Procedures I	4
MI 206	Clinical Practice I	4
MI 207	Imaging Procedures II	4
MI 208	Pharmacology for Imaging Sci	2
MI 210	Clinical Practice II	4
MI 411	Transcultural Healthcare	3

Major Information

- Students are required to know and track their degree requirements for graduation or for entrance to a professional school.
- In addition to the Core General Education requirements, the College of Science requires 3 hours of Calculus, and 40 hours of upper level credit.
- Coursework listed as "elective" may vary for each student. Students are encouraged to use elective hours toward a minor or toward prerequisites.
- Students are strongly encouraged to select courses that meet two or more Core or College requirements. For example, a writing intensive literature course could satisfy the Core II humanities requirement as well as the university writing intensive requirement.
- Course offerings and course attributes are subject to change each semester. Please consult each semester's schedule of courses for availability and attributes.
- Math is based on an ACT Mathematics score of 27 or higher. Students with an ACT Mathematics score less than 27 will be placed in the appropriate prerequisite mathematics and science courses.
- In order to graduate, students must maintain a 2.00 Overall GPA and receive a grade of *C* or better in each course required for the major.

- General Education Course

- Milestone course: a key success marker for your major. See your advisor to discuss the importance of this course in your plan of study.

Four Year Plan

A course of study in physics, resulting in a B.S. degree in physics, prepares students for a wide variety of opportunities, such as engineering careers in the private sector, careers in the health professions, employment in industry and government laboratories, advanced technology jobs in science and technology related fields, and careers as science teachers. The B.S. degree program is also excellent preparation for advanced degrees in physics, astronomy, engineering, medicine, or law. Medical Physics is designed for those who are interested in future study or work in Medical Imaging or Medical Physics.

Course	Title	Credit Hours
First Year		
First Semester		
PHY 202	General Physics I Laboratory	1
PHY 211	University Physics I	4
MTH 229	Calculus/Analytic Geom I (CT)	5
ENG 101	Beginning Composition	3
FYS 100	First Yr Sem Critical Thinking	3
UNI 100	Freshman First Class	1
	Credit Hours	**17**
Second Semester		
ENG 201	Advanced Composition	3
PHY 204	General Physics 2 Laboratory	1
PHY 213	University Physics II	4
Core II Social Science (MC/I)		3
MTH 230	Calculus/Analytic Geom II	4
	Credit Hours	**15**
Second Year		
First Semester		
PHY 320	Intro Modern Physics	3
PHY 421	Modern Physics Lab	2
PHY 445	Math Methods of Physics	3
MTH 231	Calculus/Analytic Geom III	4
BSC 227 & BSC 227L	Human Anatomy and Human Anatomy Lab	4
	Credit Hours	**16**

Second Semester		
PHY 446	Math Methods of Physics II	3
PHY 304	Optics	3
PHY 405	Optics Lab	2
BSC 228 & BSC 228L	Human Physiology and Human Physiology Lab	4
Core II Communication		3
	Credit Hours	**15**
Third Year		
First Semester		
PHY 300	Electricity & Magnetism	3
PHY 330	Mechanics	3
PHY 308	Thermal Physics	3
MI 201	Intro to Radiography	3
STA 345	Applied Prob and Stat	3
	Credit Hours	**15**
Second Semester		
PHY 442	Quantum Mechanics	3
PHY 302	Electricity & Magnetism II	3
PHY 360	Medical Physics	3
MI 411	Transcultural Healthcare	3
Core II Humanities CT, WI		3
	Credit Hours	**15**
Fourth Year		
First Semester		
PHY 491	Capstone	1
MI 202	Patient Care Img Science	3
MI 204	Radiographic Anatomy	3
MI 205	Imaging Procedures I	4
MI 206	Clinical Practice I	4
	Credit Hours	**15**
Second Semester		
PHY 492	Capstone	1
Core II Fine Arts		3
MI 207	Imaging Procedures II	4
MI 208	Pharmacology for Imaging Sci	2
MI 210	Clinical Practice II	4
	Credit Hours	**14**
	Total Credit Hours	**122**

Medical Physics, Emphasis

- General Education Course

- Milestone course: a key success marker for your major. See your advisor to discuss the importance of this course in your plan of study.

Major

The Core Curriculum is designed to foster critical thinking skills and introduce students to basic domains of thinking that transcend disciplines. The Core applies to all majors. Information on specific classes in the Core can be found at https://www.marshall.edu/gened/.

Code	Title	Credit Hours
Core Curriculum		
Core 1: Critical Thinking		
FYS 100	First Yr Sem Critical Thinking	3
MTH 229	Calculus/Analytic Geom I (CT)	5
Critical Thinking Course		3
Core 2		
ENG 101	Beginning Composition	3
ENG 201	Advanced Composition	3
Core II Communication		3
MTH 229	Calculus/Analytic Geom I (CT)	5
Core II Humanities		3
Core II Social Science		3
Core II Fine Arts		3
BSC 120	Principles of Biology I (Natural/Physical Science)	3
BSC 120L	Principles of Biology I Lab	1
Additional University Requirements		
Writing Intensive		3
Writing Intensive		3
Multicultural or International		3
PHY 491 & PHY 492	Capstone and Capstone	2
Major-Specific		
PHY 202	General Physics I Laboratory	1
PHY 211	University Physics I	4
PHY 204	General Physics 2 Laboratory	1
PHY 213	University Physics II	4
PHY 300	Electricity & Magnetism	3
PHY 304	Optics	3
PHY 405	Optics Lab	2
PHY 308	Thermal Physics	3
PHY 320	Intro Modern Physics	3
PHY 330	Mechanics	3
PHY 360	Medical Physics	3
PHY 421	Modern Physics Lab	2
PHY 491 & PHY 492	Capstone and Capstone (C)	2
PHY 442	Quantum Mechanics	3
PHY 445	Math Methods of Physics	3
PHY 446	Math Methods of Physics II	3
CHM 211	Principles of Chemistry I	3
CHM 217	Principles of Chem Lab I	2
CHM 212	Principles Chemistry II	3
CHM 218	Principles of Chem Lab II	2
CHM 355	Organic Chemistry I	3
CHM 356	Organic Chemistry II	3
CHM 361	Intro Organic Chm Lab	3
CHM 365	Introductory Biochemistry	3
BSC 120	Principles of Biology I	3
BSC 120L	Principles of Biology I Lab	1

BSC 121	Principles of Biology II	3
BSC 121L	Prin of Biology II Lab	1
PHY Elective		3
PHY 350	Biological Physics (Recommended)	
MTH 230	Calculus/Analytic Geom II	4
MTH 231	Calculus/Analytic Geom III	4

Major Information

- Students are required to know and track their degree requirements for graduation or for entrance to a professional school.
- In addition to the Core General Education requirements, the College of Science requires 3 hours of Calculus, and 40 hours of upper level credit.
- Coursework listed as "elective" may vary for each student. Students are encouraged to use elective hours toward a 2nd minor or toward prerequisites.
- Students are strongly encouraged to select courses that meet two or more Core or College requirements. For example, a writing intensive literature course could satisfy the Core II humanities requirement as well as the university writing intensive requirement.
- Course offerings and course attributes are subject to change each semester. Please consult each semester's schedule of courses for availability and attributes.
- Math is based on an ACT Mathematics score of 27 or higher. Students with an ACT Mathematics score less than 27 will be placed in the appropriate prerequisite mathematics and science courses.
- In order to graduate, students must maintain a 2.00 Overall GPA and receive a grade of *C* or better in each course required for the major.

- General Education Course

- Milestone course: a key success marker for your major. See your advisor to discuss the importance of this course in your plan of study.

Four Year Plan

A course of study in physics, resulting in a B.S. degree in physics, prepares students for a wide variety of opportunities, such as engineering careers in the private sector, careers in the health professions, employment in industry and government laboratories, advanced technology jobs in science and technology related fields, and careers as science teachers. The B.S. degree program is also excellent preparation for advanced degrees in physics, astronomy, engineering, medicine, or law. Medical Physics is designed for those who are interested in going to the medical school, or working in a biochemical physics field.

Course	Title	Credit Hours
First Year		
First Semester		
PHY 202	General Physics I Laboratory	1
PHY 211	University Physics I	4
MTH 229	Calculus/Analytic Geom I (CT)	5
ENG 101	Beginning Composition	3
FYS 100	First Yr Sem Critical Thinking	3
UNI 100	Freshman First Class	1
	Credit Hours	**17**
Second Semester		
ENG 201	Advanced Composition	3
PHY 204	General Physics 2 Laboratory	1
PHY 213	University Physics II	4
Core II Social Science		3
MTH 230	Calculus/Analytic Geom II	4
	Credit Hours	**15**
Second Year		
First Semester		
PHY 320	Intro Modern Physics	3
PHY 421	Modern Physics Lab	2
PHY 445	Math Methods of Physics	3
CHM 211	Principles of Chemistry I	3
CHM 217	Principles of Chem Lab I	2
MTH 231	Calculus/Analytic Geom III	4
	Credit Hours	**17**
Second Semester		
PHY 446	Math Methods of Physics II	3
CHM 212	Principles Chemistry II	3
CHM 218	Principles of Chem Lab II	2
PHY 304	Optics	3
PHY 405	Optics Lab	2
Multicultural or International (CT)		3
	Credit Hours	**16**
Third Year		
First Semester		
CHM 355	Organic Chemistry I	3
PHY 300	Electricity & Magnetism	3
PHY 330	Mechanics	3
PHY 308	Thermal Physics	3
	Credit Hours	**12**
Second Semester		
PHY 442	Quantum Mechanics	3
PHY Elective:		3
PHY 350	Biological Physics (Recommended)	
CHM 356	Organic Chemistry II	3
CHM 361	Intro Organic Chm Lab	3
Core II Communication		3
	Credit Hours	**15**
Fourth Year		
First Semester		
PHY 491	Capstone	1
Core II Humanities		3
BSC 120	Principles of Biology I	3
BSC 120L	Principles of Biology I Lab	1
CHM 365	Introductory Biochemistry	3
Writing Intensive		3
	Credit Hours	**14**

Second Semester		
PHY 492	Capstone	1
PHY 360	Medical Physics	3
BSC 121	Principles of Biology II	3
BSC 121L	Prin of Biology II Lab	1
Core II Fine Arts		3
Writing Intensive		3
	Credit Hours	**14**
	Total Credit Hours	**120**

Pre-Professional Health Care Studies, Interdisciplinary Minor

Contacts: Mr. Brian Morgan, Associate Dean and Chief Pre-Professional Health Care Advisor
Website: http://www.marshall.edu/preprof (http://www.marshall.edu/preprof/)

A minor in Pre-Professional Health Care Studies is designed to help students prepare to apply to professional health programs by providing a comprehensive list of courses which build competencies essential for a competitive application. This minor does not include a comprehensive list of courses required by every professional school, but instead provides a structured pathway to help a student complete graduate or professional school prerequisites courses, regardless of major. The minor includes the most common courses needed to pursue an advanced degree in the health sciences and/or completing prerequisites for post-baccalaureate health care programs. Students who plan to pursue attendance at a medical school, physician assistant program, physical therapy doctoral program, or other related graduate programs will find this minor helpful in addressing the required prerequisite courses. Because each professional school may determine its own requirements, and because those requirements can vary among institutions and are subject to change, students should regard the courses listed below as examples only. This is not a comprehensive statement of what actually is required by every professional school.

Any degree-seeking undergraduate student, regardless of major, can declare this minor.

Students must complete at least 18 hours from the core list of required courses below, as well as complete a set of required courses from a sub-discipline to complete this minor. Each student, in consultation with their advisor, would design their specific Pre-Professional Health Care Studies minor with regard to their post-baccalaureate plans for graduate school or professional school, and decide how many and which disciplines they need as preparation for their plan.

Code	Title	Credit Hours
Required Courses		
BSC 120 & BSC 120L	Principles of Biology I and Principles of Biology I Lab	4
BSC 121 & BSC 121L	Principles of Biology II and Prin of Biology II Lab	4
CHM 211	Principles of Chemistry I	3
CHM 217	Principles of Chem Lab I	2
CHM 212	Principles Chemistry II	3
CHM 218	Principles of Chem Lab II	2
Electives (choose from one of the options listed below)		
Pre-Chiropractic		
Natural /Physical Sciences (consult with Pre-Professional Health Care Advisor)		6
BSC 423	Comp Vertebrate Anatomy	4
CHM 355	Organic Chemistry I	3
CHM 356	Organic Chemistry II	3
CHM 361	Intro Organic Chm Lab	3
PHY 201	College Physics I	3
PHY 202	General Physics I Laboratory	1
PHY 203	College Physics II	3
PHY 204	General Physics 2 Laboratory	1
Pre-Medicine		
CHM 355	Organic Chemistry I	3
CHM 356	Organic Chemistry II	3
CHM 361	Intro Organic Chm Lab	3
CHM 365	Introductory Biochemistry	3
PHY 201	College Physics I	3
PHY 202	General Physics I Laboratory	1
PHY 203	College Physics II	3
PHY 204	General Physics 2 Laboratory	1
Pre-Optometry		
BSC 227 & BSC 227L or BSC 423	Human Anatomy and Human Anatomy Lab Comp Vertebrate Anatomy	4
BSC 228 & BSC 228L	Human Physiology and Human Physiology Lab	4
BSC 250	Microbiol & Human Disease	3
or BSC 302 and 304, Principles of Microbiology and lab		
CHM 355	Organic Chemistry I	3
CHM 356	Organic Chemistry II	3
CHM 361	Intro Organic Chm Lab	3
CHM 365	Introductory Biochemistry	3
MTH 140 or MTH 229	Applied Calculus Calculus/Analytic Geom I (CT)	3
PHY 201	College Physics I	3
PHY 202	General Physics I Laboratory	1
PHY 203	College Physics II	3
PHY 204	General Physics 2 Laboratory	1
BSC 417 or STA 225	Biostatistics Introductory Statistics (CT)	3
Pre-Physician Assistant		
BSC 227 & BSC 227L or BSC 423	Human Anatomy and Human Anatomy Lab Comp Vertebrate Anatomy	4
BSC 228 & BSC 228L	Human Physiology and Human Physiology Lab	4
BSC 250	Microbiol & Human Disease	3
or BSC 302 and 304, Principles of Microbiology and lab		

CHM 355	Organic Chemistry I	3
CHM 356	Organic Chemistry II	3
CHM 361	Intro Organic Chm Lab	3
HS 200	Comp Medical Terminology (CT)	3
BSC 417	Biostatistics	3
or STA 225	Introductory Statistics (CT)	
Pre-Pharmacy		
BSC 227 & BSC 227L	Human Anatomy and Human Anatomy Lab	4
or BSC 423	Comp Vertebrate Anatomy	
BSC 228 & BSC 228L	Human Physiology and Human Physiology Lab	3-4
or BSC 422	Animal Physiology	
BSC 250	Microbiol & Human Disease	3
or BSC 302	Principles of Microbiology	
CHM 355	Organic Chemistry I	3
CHM 356	Organic Chemistry II	3
CHM 361	Intro Organic Chm Lab	3
MTH 140	Applied Calculus	3
or MTH 229	Calculus/Analytic Geom I (CT)	
PHY 201	College Physics I	3
PHY 202	General Physics I Laboratory	1
BSC 417	Biostatistics	3
or STA 225	Introductory Statistics (CT)	
Pre-Podiatry		
CHM 355	Organic Chemistry I	3
CHM 356	Organic Chemistry II	3
CHM 361	Intro Organic Chm Lab	3
PHY 201	College Physics I	3
PHY 202	General Physics I Laboratory	1
PHY 203	College Physics II	3
PHY 204	General Physics 2 Laboratory	1
Pre-Physical Therapy		
BSC 422	Animal Physiology	3
or BSC 228	Human Physiology	
BSC 423	Comp Vertebrate Anatomy	4
BSC 417	Biostatistics	3
or STA 225	Introductory Statistics (CT)	
PHY 201	College Physics I	3
PHY 202	General Physics I Laboratory	1
PHY 203	College Physics II	3
PHY 204	General Physics 2 Laboratory	1
PSY 311	Child Development	3
Pre-Veterinary		
BSC 302	Principles of Microbiology	3
BSC 304	Microbiology Lab	2
BSC 422	Animal Physiology	3
CHM 355	Organic Chemistry I	3
CHM 356	Organic Chemistry II	3
CHM 361	Intro Organic Chm Lab	3
CHM 365	Introductory Biochemistry	3
PHY 201	College Physics I	3
PHY 202	General Physics I Laboratory	1
PHY 203	College Physics II	3
PHY 204	General Physics 2 Laboratory	1

Courses

Biological Science

BSC 104 Introduction to Biology **3 Credit hours**
Fundamentals of biology with emphasis on the unity of life, energetics, genetics and the world of living things. Intended for non-science majors.
Co-req: BSC 104L
Attributes: Natural Sciences, Core II Natural Sciences
Grade Mode: Normal Grading Mode

BSC 104L Introduction to Biology Lab **1 Credit hour**
Laboratory companion course to BSC 104. Introduction of the scientific method, with focus on a survey of the fundamental principles of the biological sciences as they apply to life on earth.
Pre-req: BSC 104 (may be taken concurrently) with a minimum grade of C.
Concurrent PR: BSC 104
Attributes: Natural Sciences, Core II Natural Sciences
Grade Mode: Normal Grading Mode

BSC 105 Human Biology **3 Credit hours**
Fundamentals of biological human structure, function, and interactions with the environment. Intended for non-science majors. Does not count for health professions credit.
Co-req: BSC 105L
Attributes: Natural Sciences, Core II Natural Sciences
Grade Mode: Normal Grading Mode

BSC 105L Human Biology Lab **1 Credit hour**
Laboratory companion course to BSC 105. Investigations of human structure, function, and interactions with the environment. Intended for non-science majors; does not count for health professions credit.
Co-req: BSC 105
Attributes: Natural Sciences, Core II Natural Sciences
Grade Mode: Normal Grading Mode

BSC 120 Principles of Biology I **3 Credit hours**
Study of core biological principles common to all organisms. Intended for science majors and pre-professional students.
Pre-req: (ACT Math with a score of 21 or SAT Mathematics Before Mar. 16 with a score of 500 or SAT MATH SECTION SCORE with a score of 530) or (BSC 104 with a minimum grade of C and BSC 104L with a minimum grade of C) or (BSC 105 with a minimum grade of C or BSC 105L with a minimum grade of C).
Co-req: BSC 120L
Attributes: Natural Sciences, Core II Natural Sciences
Grade Mode: Normal Grading Mode

BSC 120H Principles of Biology I Honors **3 Credit hours**
Study of basic biological principles common to all organisms. Intended for science majors and pre-professional students.
Pre-req: Admitted Honors College with a score of 1 and (ACT Math with a score of 21 or SAT Mathematics Before Mar. 16 with a score of 500 or SAT MATH SECTION SCORE with a score of 530) and (BSC 120L (may be taken concurrently) with a minimum grade of C or BSC 120LH (may be taken concurrently) with a minimum grade of C) or (BSC 104 with a minimum grade of C and BSC 104L with a minimum grade of C) or (BSC 105 with a minimum grade of C and BSC 105L with a minimum grade of C).
Concurrent PR: BSC 120L or BSC 120LH
Attributes: Honors, Natural Sciences, Core II Natural Sciences
Grade Mode: Normal Grading Mode

BSC 120L Principles of Biology I Lab **1 Credit hour**
Laboratory companion course to BSC 120. Practical exercises focuses on investigation of core biological principles common to all organisms.
Pre-req: ACT Math with a score of 21 or SAT MATH SECTION SCORE with a score of 530 or SAT Mathematics Before Mar. 16 with a score of 500 or (BSC 104 with a minimum grade of C and BSC 104L with a minimum grade of C) or (BSC 105 with a minimum grade of C and BSC 105L with a minimum grade of C).
Co-req: BSC 120
Attributes: Natural Sciences, Core II Natural Sciences
Grade Mode: Normal Grading Mode

BSC 120LH Prin of Biology I Lab Honors **1 Credit hour**
Laboratory companion course to BSC 120. Practical exercises focused on investigation of core biological principles common to all organisms.
Pre-req: Admitted Honors College with a score of 1 and (ACT Math with a score of 21 or SAT Mathematics Before Mar. 16 with a score of 500 or SAT MATH SECTION SCORE with a score of 530) or (BSC 104 with a minimum grade of C and BSC 104L with a minimum grade of C) or (BSC 105 with a minimum grade of C and BSC 105L with a minimum grade of C).
Co-req: BSC 120H
Attributes: Honors, Natural Sciences, Core II Natural Sciences
Grade Mode: Normal Grading Mode

BSC 121 Principles of Biology II **3 Credit hours**
A continuation of the study of core biological principles common to all organisms. Intended for science majors and pre-professional students.
Pre-req: BSC 120 with a minimum grade of C or BSC 120H with a minimum grade of C.
Co-req: BSC 121L
Attributes: Natural Sciences, Core II Natural Sciences
Grade Mode: Normal Grading Mode

BSC 121L Prin of Biology II Lab **1 Credit hour**
Laboratory companion course to BSC 121. Continuation of practical exercises focused on investigation of core biological principles common to all organisms.
Pre-req: BSC 121 (may be taken concurrently) with a minimum grade of C.
Concurrent PR: BSC 121
Attributes: Natural Sciences, Core II Natural Sciences
Grade Mode: Normal Grading Mode

BSC 227 Human Anatomy **3 Credit hours**
Study of gross and microscopic anatomy of human body systems and their development. Provides preparation for degrees in health professions. Does not count towards a major in Biological Science.
Co-req: BSC 227L
Attributes: Natural Sciences
Grade Mode: Normal Grading Mode

BSC 227L Human Anatomy Lab **1 Credit hour**
Laboratory companion course to BSC 227. Practical and computer aided exercises related to gross and microscopic anatomy of human body systems and their development. Does not count toward a major in Biological Sciences.
Co-req: BSC 227
Attributes: Natural Sciences
Grade Mode: Normal Grading Mode

BSC 228 Human Physiology **3 Credit hours**
Study of normal human physiology, from cells to systems. Provides the scientific background for understanding pathophysiology and preparation for degrees in health professions. Does not count toward a major in Biological Sciences.
Pre-req: BSC 227 with a minimum grade of C and BSC 227L with a minimum grade of C.
Co-req: BSC 228L
Attributes: Natural Sciences, Core II Natural Sciences
Grade Mode: Normal Grading Mode

BSC 228L Human Physiology Lab **1 Credit hour**
Laboratory companion course to BSC 228. Introduction of the scientific method, with focus on interpretation of data and application toward physiological systems. Does not count toward a major in Biological Sciences.
Pre-req: BSC 227 with a minimum grade of C and BSC 227L with a minimum grade of C.
Co-req: BSC 228
Attributes: Natural Sciences, Core II Natural Sciences
Grade Mode: Normal Grading Mode

BSC 250 Microbiol & Human Disease **3 Credit hours**
Introduction to microbiology with emphasis on the role of microorganisms in the disease process. Does not count towards a major in Biological Sciences.
Pre-req: BSC 227 with a minimum grade of C and BSC 227L with a minimum grade of C.
Co-req: BSC 250L
Attributes: Natural Sciences, Core II Natural Sciences
Grade Mode: Normal Grading Mode

BSC 250L Microbio and Human Disease Lab **1 Credit hour**
Laboratory companion course to BSC 250. Practical exercises with emphasis on microscopy, microorganism identification, and aseptic technique. Does not count towards a major in Biological Sciences.
Pre-req: BSC 227 with a minimum grade of C and BSC 227L with a minimum grade of C.
Co-req: BSC 250
Attributes: Natural Sciences, Core II Natural Sciences
Grade Mode: Normal Grading Mode

BSC 280 Special Topics **1-4 Credit hours**
Attributes: Natural Sciences
Grade Mode: Normal Grading Mode

BSC 281 Special Topics **1-4 Credit hours**
Attributes: Natural Sciences
Grade Mode: Normal Grading Mode

BSC 282 Special Topics **1-4 Credit hours**
Attributes: Natural Sciences
Grade Mode: Normal Grading Mode

BSC 283 Special Topics **1-4 Credit hours**
Attributes: Natural Sciences
Grade Mode: Normal Grading Mode

BSC 301 Vertebrate Embryology **4 Credit hours**
Vertebrate development based chiefly on frog, chick and pig embryos. 2 lec-4 lab. Vertebrate development based chiefly on frog, chick and pig embryos. 2 lec-4 lab.
Pre-req: BSC 121 with a minimum grade of C and BSC 121L with a minimum grade of C.
Attributes: Natural Sciences
Grade Mode: Normal Grading Mode

BSC 302 Principles of Microbiology **3 Credit hours**
Basic microbiological techniques, fundamental principles of microbial action, physiological processes, immunology, serology, disease process. This course is lecture only (the associated lab for this course is listed under a different course number)
Pre-req: BSC 121 with a minimum grade of C and BSC 121L with a minimum grade of C.
Attributes: Natural Sciences
Grade Mode: Normal Grading Mode

BSC 304 Microbiology Lab **2 Credit hours**
A laboratory course emphasizing basic microbiological techniques including preparation of culture media, gram staining, isolation and identification of bacteria from diverse environments, and evaluation of antiseptics and disinfectants. A laboratory course emphasizing basic microbiological techniques including preparation of culture media, gram staining, isolation and identification of bacteria from diverse environments, and evaluation of antiseptics and disinfectants.
Pre-req: BSC 121 with a minimum grade of C and BSC 121L with a minimum grade of C.
Attributes: Natural Sciences
Grade Mode: Normal Grading Mode

BSC 312 Invertebrate Zoology **4 Credit hours**
Survey of invertebrate phyla from protists through non-vertebrate chordates. Emphasis is placed upon identification of taxa, development, microanatomy, life histories and evolutionary relationship.
Pre-req: BSC 121 with a minimum grade of C and BSC 121L with a minimum grade of C.
Attributes: Natural Sciences
Grade Mode: Normal Grading Mode

BSC 320 Principles of Ecology **4 Credit hours**
A fundamental approach to the basic principles underlying the interrelationships of organisms with their biotic and abiotic environments. A variety of aquatic and terrestrial ecosystems will be studied in the field and in the laboratory. 3 lec-3 lab. A fundamental approach to the basic principles underlying the interrelationships of organisms with their biotic and abiotic environments. A variety of aquatic and terrestrial ecosystems will be studied in the field and in the laboratory. 3 lec-3 lab.
Pre-req: BSC 121 with a minimum grade of C and BSC 121L with a minimum grade of C.
Attributes: Natural Sciences
Grade Mode: Normal Grading Mode

BSC 322 Principles Cell Biology **4 Credit hours**
A fundamental approach to the principles of cell biology covering general cellular structure and function,organelles, intercellular interactions, molecular interactions, and modern cellular and molecular methods. 3 lec-3 lab.
Pre-req: BSC 121 with a minimum grade of C and BSC 121L with a minimum grade of C.
Attributes: Natural Sciences
Grade Mode: Normal Grading Mode

BSC 324 Principles of Genetics **4 Credit hours**
The fundamental principles and mechanisms of inheritance. 3 lec-3 lab.
Pre-req: BSC 121 with a minimum grade of C and BSC 121L with a minimum grade of C.
Attributes: Natural Sciences
Grade Mode: Normal Grading Mode

BSC 332 Principles of Human Anatomy **3 Credit hours**
An overview of the major anatomical regions and functional systems, with a focus on human anatomy in a comparative and evolutionary context.
Pre-req: BSC 121 with a minimum grade of C and BSC 121L with a minimum grade of C and BSC 332L (may be taken concurrently) with a minimum grade of C.
Concurrent PR: BSC 332L
Attributes: Natural Sciences
Grade Mode: Normal Grading Mode

BSC 332L Prin of Human Anatomy Lab **1 Credit hour**
Laboratory companion course to BSC 332. Practical investigation of human anatomy in a comparative and evolutionary context.
Pre-req: BSC 332 (may be taken concurrently) with a minimum grade of C and BSC 121 with a minimum grade of C and BSC 121L with a minimum grade of C.
Concurrent PR: BSC 332
Attributes: Natural Sciences
Grade Mode: Normal Grading Mode

BSC 334 Principles of Human Physiology **3 Credit hours**
An overview of the major physiological systems, with focus on comparative, molecular, and pathophysiology.
Pre-req: BSC 121 with a minimum grade of C and BSC 121L with a minimum grade of C and BSC 334L (may be taken concurrently) with a minimum grade of C.
Concurrent PR: BSC 334L
Attributes: Natural Sciences
Grade Mode: Normal Grading Mode

BSC 334L Prin of Human Physiology Lab **1 Credit hour**
Laboratory companion course to BSC 334. Investigation of key physiological systems with focus on data acquisition and analysis.
Pre-req: BSC 334 (may be taken concurrently) with a minimum grade of C and BSC 121 with a minimum grade of C and BSC 121L with a minimum grade of C.
Concurrent PR: BSC 334
Attributes: Natural Sciences
Grade Mode: Normal Grading Mode

BSC 340 Principles of Evolution **3 Credit hours**
An overview of the unity and diversity of life, and the mechanisms and processes of evolutionary change at the population, organismal, and molecular levels.
Pre-req: BSC 121 with a minimum grade of C and BSC 121L with a minimum grade of C.
Attributes: Natural Sciences
Grade Mode: Normal Grading Mode

BSC 401 Ichthyology **4 Credit hours**
Anatomy, physiology, ecology, zoogeography, economic importance and classification of major groups and representative local species of fishes. 2 lec-2 lab and field.
Pre-req: (BSC 320 with a minimum grade of D or BSC 322 with a minimum grade of D or BSC 324 with a minimum grade of D or BSC 332 with a minimum grade of D) or (BSC 121 with a minimum grade of C and BSC 121L with a minimum grade of C and NRE 322 with a minimum grade of D) or (BSC 121 with a minimum grade of C and BSC 121L with a minimum grade of C and NRE 323 with a minimum grade of D).
Attributes: Natural Sciences
Grade Mode: Normal Grading Mode

BSC 404 Cellular Physiology **3 Credit hours**
In depth analysis of the physiological and molecular processes that underlie the functions of cells, using examples from diverse taxa. Focus on biomedical and biotechnical implications.
Pre-req: BSC 302 with a minimum grade of D or BSC 322 with a minimum grade of D or BSC 324 with a minimum grade of D or BSC 334 with a minimum grade of D.
Attributes: Natural Sciences
Grade Mode: Normal Grading Mode

BSC 406 Herpetology **4 Credit hours**
Taxonomy, morphology, distribution, life history, and ecology of reptiles and amphibians with a special emphasis on representatives native to West Virginia. 2 lec-2 lab. Taxonomy, morphology, distribution, life history, and ecology of reptiles and amphibians with a special emphasis on representatives native to West Virginia. 2 lec-2 lab.
Pre-req: (BSC 320 with a minimum grade of D or BSC 322 with a minimum grade of D or BSC 324 with a minimum grade of D or BSC 332 with a minimum grade of D) or (BSC 121 with a minimum grade of C and (NRE 322 with a minimum grade of D or NRE 323 with a minimum grade of D) and BSC 121L with a minimum grade of C).
Attributes: Natural Sciences
Grade Mode: Normal Grading Mode

BSC 408 Ornithology **4 Credit hours**
An introduction to avian biology: identification, distribution, migration, and breeding activities of birds.2 lec-4 lab.
Pre-req: (BSC 320 with a minimum grade of D or BSC 322 with a minimum grade of D or BSC 324 with a minimum grade of D or BSC 332 with a minimum grade of D) or (BSC 121 with a minimum grade of C and (NRE 322 with a minimum grade of D or NRE 323 with a minimum grade of D) and BSC 121L with a minimum grade of D).
Attributes: Natural Sciences
Grade Mode: Normal Grading Mode

BSC 409 Mammalogy **4 Credit hours**
A study of the structural features, evolution and classification of mammals; other topics will include ecology, zoogeography, behavior, reproductive strategies, physiological adaptation to extreme environments and economic aspects.3 lec-3 lab and field.
Pre-req: (BSC 320 with a minimum grade of D or BSC 322 with a minimum grade of D or BSC 324 with a minimum grade of D or BSC 332 with a minimum grade of D) or (BSC 121 with a minimum grade of C and (NRE 322 with a minimum grade of D or NRE 323 with a minimum grade of D) and BSC 121L with a minimum grade of C).
Attributes: Natural Sciences
Grade Mode: Normal Grading Mode

BSC 410 Remote Sensing/GIS Appl **4 Credit hours**
A study of the physical systems for collecting remotely sensed data. Statistical/spatial analysis and modeling using image processing/geographic information/spatial computer software systems with earth resources applications. A study of the physical systems for collecting remotely sensed data. Statistical/spatial analysis and modeling using image processing/geographic information/spatial computer software systems with earth resources applications.
Pre-req: PHY 201 with a minimum grade of D or BSC 320 with a minimum grade of D or BSC 340 with a minimum grade of D or NRE 423 with a minimum grade of D or NRE 433 with a minimum grade of D.
Attributes: Natural Sciences
Grade Mode: Normal Grading Mode

BSC 411 Dgtl Image Proc/GIS Model **4 Credit hours**
A study of image processing/geographic information/spatial analysis systems, concurrent and parallel image processing 3-D modeling scenarios utilizing geophysical data for computer simulation modeling. A study of image processing/geographic information/spatial analysis systems, concurrent and parallel image processing 3-D modeling scenarios utilizing geophysical data for computer simulation modeling.
Pre-req: PHY 201 with a minimum grade of D or BSC 320 with a minimum grade of D or BSC 340 with a minimum grade of D or NRE 423 with a minimum grade of D or NRE 433 with a minimum grade of D.
Attributes: Natural Sciences
Grade Mode: Normal Grading Mode

BSC 413 Prin of Organic Evolution **3 Credit hours**
Facts and possible mechanisms underlying the unity and diversity of life with emphasis on Neo-Darwinian concepts of the role of species in evolutionary phenomena. Facts and possible mechanisms underlying the unity and diversity of life with emphasis on Neo-Darwinian concepts of the role of species in evolutionary phenomena.
Pre-req: BSC 302 or BSC 320 or BSC 322 or BSC 324.
Attributes: Natural Sciences
Grade Mode: Normal Grading Mode

BSC 416 Plant Taxonomy **4 Credit hours**
Recognition of our native seed plants and ferns. 2 lec-4 lab. Recognition of our native seed plants and ferns. 2 lec-4 lab.
Pre-req: BSC 302 with a minimum grade of D or BSC 320 with a minimum grade of D or BSC 322 with a minimum grade of D or BSC 324 with a minimum grade of D or BSC 340 with a minimum grade of D or NRE 322 with a minimum grade of D or NRE 401 with a minimum grade of D.
Attributes: Natural Sciences
Grade Mode: Normal Grading Mode

BSC 417 Biostatistics **3 Credit hours**
Statistical skills for biological/biomedical research, with emphasis on applications. Experimental design/survey sampling, estimation/hypothesis testing procedures,regression, ANOVA, multiple comparisons. Implementation using statistical software such as SAS, BMDP.
Pre-req: BSC 302 with a minimum grade of D or BSC 320 with a minimum grade of D or BSC 322 with a minimum grade of D or BSC 324 with a minimum grade of D or BSC 332 with a minimum grade of D or BSC 334 with a minimum grade of D or BSC 340 with a minimum grade of D.
Attributes: Natural Sciences
Grade Mode: Normal Grading Mode

BSC 420 Plant Physiology **4 Credit hours**
Experimental study of plant life processes to include applicable biophysical and biochemical principles. 2 lec-4 lab. Experimental study of plant life processes to include applicable biophysical and biochemical principles. 2 lec-4 lab.
Pre-req: BSC 302 with a minimum grade of D or BSC 320 with a minimum grade of D or BSC 322 with a minimum grade of D or BSC 324 with a minimum grade of D or BSC 334 with a minimum grade of D.
Attributes: Natural Sciences
Grade Mode: Normal Grading Mode

BSC 421 Phycology **4 Credit hours**
Morphology, taxonomy, and techniques used in the study of fresh-water algae with emphasis upon applications of ecological principles to current water quality problems. 2 lec-4 lab.
Pre-req: (BSC 320 with a minimum grade of D or BSC 322 with a minimum grade of D or BSC 324 with a minimum grade of D or BSC 332 with a minimum grade of D) or (BSC 121 with a minimum grade of C and (NRE 322 with a minimum grade of D or NRE 323 with a minimum grade of D) and BSC 121L with a minimum grade of C).
Attributes: Natural Sciences
Grade Mode: Normal Grading Mode

BSC 422 Animal Physiology **3 Credit hours**
A comparative study of physiological principles in animal cells, organs, and systems. Focus on animal's reactions to their environment, and how comparative physiology applies to natural ecosystems and human health.
Pre-req: BSC 322 with a minimum grade of D and CHM 355 with a minimum grade of D and (MTH 140 with a minimum grade of D or MTH 140H with a minimum grade of D or MTH 132 with a minimum grade of D or MTH 229 with a minimum grade of D or MTH 229H with a minimum grade of D).
Attributes: Natural Sciences
Grade Mode: Normal Grading Mode

BSC 423 Comp Vertebrate Anatomy **4 Credit hours**
Structure, function and relationships of systems of selected vertebrates with an emphasis on embryology and evolution. 2 lec.-4 lab.
Pre-req: BSC 302 with a minimum grade of D or BSC 320 with a minimum grade of D or BSC 322 with a minimum grade of D or BSC 324 with a minimum grade of D or BSC 332 with a minimum grade of D or BSC 334 with a minimum grade of D.
Attributes: Natural Sciences
Grade Mode: Normal Grading Mode

BSC 424 Animal Parasitology **4 Credit hours**
Morphology, life histories, classification, and host relationships of common parasites. 2 lec-4 lab. Morphology, life histories, classification, and host relationships of common parasites. 2 lec-4 lab.
Pre-req: BSC 302 with a minimum grade of D or BSC 320 with a minimum grade of D or BSC 322 with a minimum grade of D or BSC 324 with a minimum grade of D or BSC 332 with a minimum grade of D or BSC 334 with a minimum grade of D.
Attributes: Natural Sciences
Grade Mode: Normal Grading Mode

BSC 425 Systematics **3 Credit hours**
Biosystematics is a unifying discipline that combines taxonomy (collecting, describing and naming organisms), phylogenetics (evolutionary relationships among species), and classification (organization of taxa into groups which ultimately reflect evolutionary relationship). Biosystematics is a unifying discipline that combines taxonomy (collecting, describing and naming organisms), phylogenetics (evolutionary relationships among species), and classification (organization of taxa into groups which ultimately reflect evolutionary relationship).
Pre-req: (BSC 320 with a minimum grade of D or BSC 322 with a minimum grade of D or BSC 324 with a minimum grade of D or BSC 332 with a minimum grade of D) or (BSC 121 with a minimum grade of C and (NRE 322 with a minimum grade of D or NRE 323 with a minimum grade of D) and BSC 121L with a minimum grade of C).
Attributes: Natural Sciences
Grade Mode: Normal Grading Mode

BSC 426 Medical Entomology **4 Credit hours**
Role of certain insects and other arthropods in the transmission of disease organisms and methods of control.2 lec-4 lab.
Pre-req: (BSC 320 with a minimum grade of D or BSC 322 with a minimum grade of D or BSC 324 with a minimum grade of D or BSC 332 with a minimum grade of D) or (BSC 121 with a minimum grade of C and (NRE 322 with a minimum grade of D or NRE 323 with a minimum grade of D) and BSC 121L with a minimum grade of C).
Attributes: Natural Sciences
Grade Mode: Normal Grading Mode

BSC 428 Neuroscience **3 Credit hours**
The fundamentals of cellular and systems neuroscience, with application towards understanding current research and biomedical problems.
Pre-req: BSC 322 with a minimum grade of D or BSC 334 with a minimum grade of D or BSC 422 with a minimum grade of D or (BSC 121 with a minimum grade of D and CHM 355 with a minimum grade of D).
Attributes: Natural Sciences
Grade Mode: Normal Grading Mode

BSC 429 Metabolic Systems **3 Credit hours**
Discussion of metabolic processes responsible for the activity of all living systems, factors that impact metabolic processes such as toxicology and pathology, and applications of metabolic pathways to biotechnology.
Pre-req: BSC 322 with a minimum grade of D or BSC 334 with a minimum grade of D or BSC 422 with a minimum grade of D or (BSC 121 with a minimum grade of D and CHM 355 with a minimum grade of D).
Attributes: Natural Sciences
Grade Mode: Normal Grading Mode

BSC 430 Plant Ecology **4 Credit hours**
The study of plants and their interactions with their environment at different levels of ecological organization: individuals, populations, communities, and ecosystems. Emphasis on quantitative analysis of ecological data. The study of plants and their interactions with their environment at different levels of ecological organization: individuals, populations, communities, and ecosystems. Emphasis on quantitative analysis of ecological data.
Pre-req: BSC 320 with a minimum grade of D or (BSC 121 with a minimum grade of D and BSC 121L with a minimum grade of D and NRE 322 with a minimum grade of C).
Attributes: Natural Sciences
Grade Mode: Normal Grading Mode

BSC 431 Limnology **4 Credit hours**
Study of inland waters; ecological factors affecting lake and stream productivity and various aquatic communities. Study of inland waters; ecological factors affecting lake and stream productivity and various aquatic communities.
Pre-req: BSC 320 with a minimum grade of D or (BSC 121 with a minimum grade of D and (NRE 323 with a minimum grade of D or NRE 431 with a minimum grade of D or NRE 435 with a minimum grade of D) and BSC 121L with a minimum grade of D).
Attributes: Natural Sciences
Grade Mode: Normal Grading Mode

BSC 438 Emerging Infectious Diseases **3 Credit hours**
Introduces students to infectious diseases that are either newly emergent or have returned to prominence within the last decade.
Pre-req: BSC 302 with a minimum grade of D or BSC 320 with a minimum grade of D or BSC 322 with a minimum grade of D or BSC 324 with a minimum grade of D or BSC 332 with a minimum grade of D or BSC 334 with a minimum grade of D or BSC 340 with a minimum grade of D.
Attributes: Natural Sciences
Grade Mode: Normal Grading Mode

BSC 443 Microbial Genetics **3 Credit hours**
Microbial Genetics covers the essential functions of DNA replication and gene expression in prokaryotic cells. The course includes molecular genetics of bacteria and phages, bioinformatics and discussion of laboratory techniques. Microbial Genetics covers the essential functions of DNA replication and gene expression in prokaryotic cells. The course includes molecular genetics of bacteria and phages, bioinformatics and discussion of laboratory techniques.
Pre-req: BSC 302 with a minimum grade of D or BSC 322 with a minimum grade of D or BSC 324 with a minimum grade of D or BSC 334 with a minimum grade of D.
Attributes: Natural Sciences
Grade Mode: Normal Grading Mode

BSC 445 Microbial Ecology **3 Credit hours**
This course introduces students to the vital roles that microbes play in sustaining life on earth. Includes both theoretical and practical concepts ranging from the origin of life to biodegradation. This course introduces students to the vital roles that microbes play in sustaining life on earth. Includes both theoretical and practical concepts ranging from the origin of life to biodegradation.
Pre-req: BSC 302 with a minimum grade of D or BSC 320 with a minimum grade of D or BSC 322 with a minimum grade of D or BSC 324 with a minimum grade of D or BSC 340 with a minimum grade of D.
Attributes: Natural Sciences
Grade Mode: Normal Grading Mode

BSC 448 Introductory Immunology **3 Credit hours**
Comprehensive study of the molecules, cells and processes of the immune system. Also covered are diseases with an immunologic basis and technological applications of immunological principles. Pre: C or better in BSC 121, CHM 212 Comprehensive study of the molecules, cells and processes of the immune system. Also covered are diseases with an immunologic basis and technological applications of immunological principles. Pre: C or better in BSC 121, CHM 212
Pre-req: BSC 302 with a minimum grade of D or BSC 322 with a minimum grade of D or BSC 324 with a minimum grade of D or BSC 334 with a minimum grade of D.
Attributes: Natural Sciences
Grade Mode: Normal Grading Mode

BSC 450 Molecular Biology **3 Credit hours**
Advanced principles in molecular function emphasizing current research using recombinant DNA methodology.
Pre-req: BSC 302 with a minimum grade of D or BSC 322 with a minimum grade of D or BSC 324 with a minimum grade of D or BSC 334 with a minimum grade of D.
Attributes: Natural Sciences
Grade Mode: Normal Grading Mode

BSC 451 Molecular Medicine **3 Credit hours**
Discussion of applications of molecular biology to modern medicine, including diagnostics, treatments, and development of new strategies and interventions.
Pre-req: BSC 302 with a minimum grade of D or BSC 322 with a minimum grade of D or BSC 324 with a minimum grade of D or BSC 334 with a minimum grade of D.
Attributes: Natural Sciences
Grade Mode: Normal Grading Mode

BSC 454 Princ Adv Techn Mol Biol **3 Credit hours**
Students will gain an understanding of modern molecular biology through standard and novel methods and understand and criticize the published literature.
Pre-req: BSC 322 or BSC 324 or BSC 365 or BSC 450.
Attributes: Natural Sciences
Grade Mode: Normal Grading Mode

BSC 456 Genes and Development **3 Credit hours**
Focuses on mechanisms of complex organismal development including cell specification, morphogenesis, and induction. Genetic manipulations of the model organism Drosophilia will illustrate current information.
Pre-req: BSC 302 with a minimum grade of D or BSC 322 with a minimum grade of D or BSC 324 with a minimum grade of D or BSC 334 with a minimum grade of D.
Attributes: Natural Sciences
Grade Mode: Normal Grading Mode

BSC 458 Bioinformatics **3 Credit hours**
Discussion of modern computational approaches that help us use and understand massive databases of biological information including DNA, RNA, and protein sequence data. Students will use computational tools to extract information and meaning from real databases.
Pre-req: BSC 302 with a minimum grade of D or BSC 322 with a minimum grade of D or BSC 324 with a minimum grade of D or BSC 344 with a minimum grade of D.
Attributes: Natural Sciences
Grade Mode: Normal Grading Mode

BSC 460 Conservation Biology **3 Credit hours**
This course focuses on the North American model of wildlife conservation (and its history), principles of biological diversity, threats to habitats and species of concern, and conservation policy.
Pre-req: BSC 320 with a minimum grade of D or (BSC 121 with a minimum grade of C and (NRE 220 with a minimum grade of D or NRE 320 with a minimum grade of D or NRE 322 with a minimum grade of D) and BSC 121L with a minimum grade of C).
Attributes: Natural Sciences
Grade Mode: Normal Grading Mode

BSC 463 Bioethics **3 Credit hours**
Discussion of ethical issues in scientific research: fraud, informed consent, genetic testing, gene therapy, cloning, new drugs, vaccines and foods produced via engineered organisms. Includes analysis of case studies and communications practices.
Attributes: Natural Sciences
Grade Mode: Normal Grading Mode

BSC 465 Biology of Reptiles **4 Credit hours**
A survey of the reptiles of the world with special emphasis placed on forms resident to West Virginia, including aspects of ecology, physiology, zoogeography, anatomy, taxonomy, and behavior.
Pre-req: BSC 320 with a minimum grade of D or BSC 322 with a minimum grade of D or BSC 324 with a minimum grade of D or BSC 332 with a minimum grade of D or (BSC 121 with a minimum grade of C and (NRE 322 with a minimum grade of C or NRE 323 with a minimum grade of C) and BSC 121L with a minimum grade of C).
Attributes: Natural Sciences
Grade Mode: Normal Grading Mode

BSC 466 Biology of Amphibians **4 Credit hours**
A survey of the reptiles of the world with special emphasis placed on forms resident to West Virginia, including aspects of ecology, physiology, zoogeography, anatomy, taxonomy, and behavior.
Pre-req: BSC 121 with a minimum grade of C.
Grade Mode: Normal Grading Mode

BSC 480 Special Topics **1-4 Credit hours**
Attributes: Natural Sciences
Grade Mode: Normal Grading Mode

BSC 481 Special Topics **1-4 Credit hours**
Attributes: Natural Sciences
Grade Mode: Normal Grading Mode

BSC 482 Special Topics **1-4 Credit hours**
Attributes: Natural Sciences
Grade Mode: Normal Grading Mode

BSC 483 Special Topics **1-4 Credit hours**
Attributes: Natural Sciences
Grade Mode: Normal Grading Mode

BSC 485 Independent Study **1-4 Credit hours**
Attributes: No Textbook Required, Natural Sciences
Grade Mode: Credit/No Credit Grade Only

BSC 486 Independent Study **1-4 Credit hours**
Attributes: Natural Sciences
Grade Mode: Credit/No Credit Grade Only

BSC 487 Independent Study **1-4 Credit hours**
Attributes: Natural Sciences
Grade Mode: Credit/No Credit Grade Only

BSC 488 Independent Study **1-4 Credit hours**
Attributes: Natural Sciences
Grade Mode: Credit/No Credit Grade Only

BSC 491 Capstone Experience **2 Credit hours**
A student-driving research or career shadowing experience under a qualified mentor. Must be approved by the Department of Biological Sciences prior to registration.
Attributes: Capstone Course, No Textbook Required, Natural Sciences
Grade Mode: Normal Grading Mode

BSC 501 Ichthyology **4 Credit hours**
Anatomy, physiology, ecology, zoogeography, economic importance and classification of major groups and representative local species of fishes. 2 lec-2 lab and field. Anatomy, physiology, ecology, zoogeography, economic importance and classification of major groups and repre- sentative local species of fishes. 2 lec-2 lab and field.
Grade Mode: Normal Grading Mode

BSC 504 Cellular Physiology **3 Credit hours**
In depth analysis of the physiological and molecular processes that underly the function of cells, using examples from diverse taxa. Focus on biomedical and biotechnological implications.
Grade Mode: Normal Grading Mode

BSC 505 Economic Botany **3 Credit hours**
Plants used by man for food, ornamental purposes, building materials, textiles and other industrial purposes: economic importance of conservation. No laboratory. Plants used by man for food, ornamental purposes, building materials, textiles and other industrial purposes: economic importance of conservation. No laboratory.
Grade Mode: Normal Grading Mode

BSC 506 Herpetology **4 Credit hours**
A survey of the reptiles and amphibians of the world with special emphasis placed on forms resident to West Virginia aspects of zoogeography, anatomy, taxonomy, and behavior. 2 lec-2 lab. A survey of the reptiles and amphibians of the world with special emphasis placed on forms resident to West Virginia aspects of zoogeography, anatomy, taxonomy, and behavior. 2 lec-2 lab.
Grade Mode: Normal Grading Mode

BSC 508 Ornithology **4 Credit hours**
An introduction to avian biology: Identification, distribution, migration and breeding activities of birds. 2 lec-4 lab. An introduction to avian biology: Identification, distribution, migration and breeding activities of birds. 2 lec-4 lab.
Grade Mode: Normal Grading Mode

BSC 509 Mammalogy **4 Credit hours**
A study of the structural features, evolution and classification of the mammals; other topics will include ecology, zoogeography, behavior, reproductive strategies, physiological adaptations to extreme environments and economic aspects. 2 lec-2 lab. A study of the structural features, evolution and classifi- cation of the mammals; other topics will include ecology, zoogeography, behavior, reproductive strategies, physiologi- cal adaptations to extreme environments and economic aspects. 2 lec-2 lab.
Grade Mode: Normal Grading Mode

BSC 510 Remote Sensing/GIS Appl **4 Credit hours**
A study of the physical systems for collecting remotely sensed data. Statistical/spatial analysis and modeling using image processing/ geographic information/spatial computer software systems with earth resources applications. A study of the physical systems for collecting remotely sensed data. Statistical/spatial analysis and modeling using image processing/geographic information/spatial computer software systems with earth resources applications.
Grade Mode: Normal Grading Mode

BSC 511 Dgtl Image Proc/GIS Model **4 Credit hours**
A study of image processing/geographic information/spatial analysis systems, concurrent and parallel image processing 3-D modeling scenarios utilizing geophysical data for computer simulation modeling. A study of image processing/geographic information/spatial analysis systems, concurrent and parallel image processing 3-D modeling scenarios utilizing geophysical data for computer simulation modeling.
Grade Mode: Normal Grading Mode

BSC 513 Prin of Organic Evolution **3 Credit hours**
The facts and possible mechanisms underlying the unity and diversity of life with emphasis on Neo-Darwiniam concepts of the role of species in evolutionary phenomena. The facts and possible mechanisms underlying the unity and diversity of life with emphasis on Neo-Darwiniam concepts of the role of species in evolutionary phenomena.
Grade Mode: Normal Grading Mode

BSC 516 Plant Taxonomy **4 Credit hours**
Identification and classification of seed plants and ferns of eastern United States. Readings in history and principles of taxonomy, rules of nomenclature and related topics. 2 lec-4 lab. Identification and classification of seed plants and ferns of eastern United States. Readings in history and principles of taxonomy, rules of nomenclature and related topics. 2 lec-4 lab.
Grade Mode: Normal Grading Mode

BSC 517 Biostatistics **3 Credit hours**
Statistical skills for biological/biomedical research, with emphasis on applications.Experimental design/survey sampling, estimation/ hypothesis testing procedures, regression, AVONA, multiple comparisons. Implementation using statistical software such as SAS, BMDP. Permission (consistent with MTH 518 description) Statistical skills for biological/biomedical research, with emphasis on applications.Experimental design/survey sampling, estimation/ hypothesis testing procedures, regression, AVONA, multiple comparisons. Implementation using statistical software such as SAS, BMDP. Permission (consistent with MTH 518 description)
Grade Mode: Normal Grading Mode

BSC 520 Plant Physiology **4 Credit hours**
Experimental study of plant life processes to include applicable biophysical and biochemical principles. 2 lec-4 lab. Experimental study of plant life processes to include applicable biophysical and biochemical principles. 2 lec-4 lab.
Grade Mode: Normal Grading Mode

BSC 521 Phycology **4 Credit hours**
Taxonomy and morphology of algae. Techniques used in the study of algae with emphasis upon application of ecological principles to current water quality problems. 2 lec-4 lab. Taxonomy and morphology of algae. Techniques used in the study of algae with emphasis upon application of ecological principles to current water quality problems. 2 lec-4 lab.
Grade Mode: Normal Grading Mode

BSC 522 Animal Physiology **3 Credit hours**
A comparative study of physiological principles in animal cells, organs, and systems. Focus on animal's reactions to their environment, and how comparative physiology applies to natural ecosystems and human health.
Grade Mode: Normal Grading Mode

BSC 524 Animal Parasitology **4 Credit hours**
Morphology, life histories, classification, and host relationships of common parasites. 2 lec-4 lab. Morphology, life histories, classification, and host relationships of common parasites. 2 lec-4 lab.
Grade Mode: Normal Grading Mode

BSC 525 Systematics **3 Credit hours**
Biosystematics is a unifying discipline that combines taxonomy (collecting, describing, and naming organisms), phylogenetics (evolutionary relationships among species), and classification (organization of taxa into groups which ultimately reflect evolutionary relationship. Biosystematics is a unifying discipline that combines taxonomy (collecting, describing, and naming organisms), phylogenetics (evolutionary relationships among species), and classification (organization of taxa into groups which ultimately reflect evolutionary relationship.
Grade Mode: Normal Grading Mode

BSC 528 Neuroscience **3 Credit hours**
The fundamentals of cellular and systems neuroscience, with application towards understanding current research and biomedical problems.
Grade Mode: Normal Grading Mode

BSC 530 Plant Ecology **4 Credit hours**
The study of plants and their interactions with their environment at different levels of ecological organization: individuals, populations, communities, and ecosystems. Emphasis on quantitative analysis of ecological data. The study of plants and their interactions with their environment at different levels of ecological organization: individuals, populations, communities, and ecosystems. Emphasis on quantitative analysis of ecological data.
Grade Mode: Normal Grading Mode

BSC 531 Limnology **4 Credit hours**
The study of inland waters; ecological factors affecting lake and stream productivity and various aquatic communities. 2 lec-4 lab. The study of inland waters; ecological factors affecting lake and stream productivity and various aquatic communities. 2 lec-4 lab.
Grade Mode: Normal Grading Mode

BSC 538 Emerging Infectious Diseases **3 Credit hours**
Introduces students to infections diseases that are either newly emergent or have returned to prominence within the last decade.
Grade Mode: Normal Grading Mode

BSC 543 Microbial Genetics **3 Credit hours**
Microbial Genetics covers the essential functions of DNA replication and gene expression in prokaryotic cells. The course includes molecular genetics of bacteria and phages, bioinformatics and discussion of laboratory techniques. Microbial Genetics covers the essential functions of DNA replication and gene expression in prokaryotic cells. The course includes molecular genetics of bacteria and phages, bioinformatics and discussion of laboratory techniques.
Grade Mode: Normal Grading Mode

BSC 545 Microbial Ecology **3 Credit hours**
This course introduces students to the vital roles that microbes play in sustaining life on earth. Includes both theoretical and practical concepts ranging from the origin of life to biodegradation. This course introduces students to the vital roles that microbes play in sustaining life on earth. Includes both theoretical and practical concepts ranging from the origin of life to biodegradation.
Grade Mode: Normal Grading Mode

BSC 550 Molecular Biology **3 Credit hours**
Advanced principles in molecular function emphasizing current research using recombinant DNA methodology. (PR: BSC 322 or equivalent) Advanced principles in molecular function emphasizing current research using recombinant DNA methodology. (PR: BSC 322 or equivalent)
Grade Mode: Normal Grading Mode

BSC 556 Genes and Development **3 Credit hours**
An in depth study of the genetic mechanisms of complex organismal development including cell specification, induction and morphogenesis. An in depth study of the genetic mechanisms of complex organismal development including cell specification, induction and morphogenesis.
Grade Mode: Normal Grading Mode

BSC 560 Conservation Biology **3 Credit hours**
This course focuses on the North American model of wildlife conservation (and its history), principles of biology diversity, threats to habitats and species of concern, adn conservation policy. Primarily for teachers in the biological sciences, general and applied sciences. Includes fieldwork, seminars, and demonstrations related to conservation. 2 lec-4 lab.
Grade Mode: Normal Grading Mode

BSC 565 Biology of Reptiles **4 Credit hours**
A survey of the reptiles of the world with special emphasis placed on forms resident to West Virginia, including aspects of ecology, physiology, zoogeography, anatomy, taxonomy, and behavior.
Grade Mode: Normal Grading Mode

BSC 566 Biology of Amphibians **4 Credit hours**
A survey of the amphibians of the world with special emphasis placed on forms resident to West Virginia, including aspects of ecology, physiology, zoogeography, anatomy, taxonomy, and behavior.
Grade Mode: Normal Grading Mode

BSC 580 Special Topics **1-4 Credit hours**
(PR: Permission) (PR: Permission)
Grade Mode: Normal Grading Mode

BSC 581 Special Topics **1-4 Credit hours**
(PR: Permission) (PR: Permission)
Grade Mode: Normal Grading Mode

BSC 582 Special Topics **1-4 Credit hours**
(PR: Permission) (PR: Permission)
Grade Mode: Normal Grading Mode

BSC 583 Special Topics **1-4 Credit hours**
(PR: Permission) (PR: Permission)
Grade Mode: Normal Grading Mode

BSC 585 Independent Study **1-4 Credit hours**
(PR: Permission) (PR: Permission)
Grade Mode: Credit/No Credit Grade Only

BSC 586 Independent Study **1-4 Credit hours**
(PR: Permission) (PR: Permission)
Grade Mode: Credit/No Credit Grade Only

BSC 587 Independent Study **1-4 Credit hours**
(PR: Permission) (PR: Permission)
Grade Mode: Credit/No Credit Grade Only

BSC 588 Independent Study **1-4 Credit hours**
(PR: Permission) (PR: Permission)
Grade Mode: Credit/No Credit Grade Only

BSC 601 Vertebrate Embryology **4 Credit hours**
Vertebrate development based on frog, chick and pig embryos. 2 lec-4 lab. Vertebrate development based on frog, chick and pig embryos. 2 lec-4 lab.
Grade Mode: Normal Grading Mode

BSC 608 Plant Growth & Developmnt **4 Credit hours**
Comprehensive advanced study of correlative growth in plants with emphasis on germination, dormancy, growth substances and physiological phenomena associated with phases of development. Comprehensive advanced study of correlative growth in plants with emphasis on germination, dormancy, growth substances and physiological phenomena associated with phases of development.
Grade Mode: Normal Grading Mode

BSC 610 Adv Vert Morphology **3 Credit hours**
AVM is an intensive, laboratory-based course in vertebrate morphology. Core responsibilities include detailed dissection and comparative cranial osteology. Each student must complete an independent dissection project and term paper. AVM is an intensive, laboratory-based course in vertebrate morphology. Core responsibilities include detailed dissection and comparative cranial osteology. Each student must complete an independent dissection project and term paper.
Grade Mode: Normal Grading Mode

BSC 620 Taxonomy Vascular Plants **1-2 Credit hours**
Field studies in the taxonomy of higher plants. (Limited to 4 hours credit per student). Field studies in the taxonomy of higher plants. (Limited to 4 hours credit per student).
Co-req: BSC 622
Grade Mode: Normal Grading Mode

BSC 621 Taxonomy Vascular Plants **1-2 Credit hours**
Field studies in the taxonomy of higher plants. (Limited to 4 hours credit per student). Field studies in the taxonomy of higher plants. (Limited to 4 hours credit per student).
Grade Mode: Normal Grading Mode

BSC 622 Taxonomy Vascular Plants **1-2 Credit hours**
Field studies in the taxonomy of higher plants. (Limited to 4 hours credit per student). Field studies in the taxonomy of higher plants. (Limited to 4 hours credit per student).
Co-req: BSC 620
Grade Mode: Normal Grading Mode

BSC 625 Advanced Physiology **4 Credit hours**
Lecture, current literature and introduction to research in physiological systems. 3 lec-3 lab. Lecture, current literature and introduction to research in physiological systems. 3 lec-3 lab.
Grade Mode: Normal Grading Mode

BSC 631 Animal Ecology **4 Credit hours**
A study of population and behavior ecology; community dynamics and field techniques. 2 lec-4 lab. A study of population and behavior ecology; community dynamics and field techniques. 2 lec-4 lab.
Grade Mode: Normal Grading Mode

BSC 640 Cell Bio & Biotechnology **3 Credit hours**
Broad coverage of applied cell biology, biotechnology with high current interest and utility to the medical, agricultural and commercial product development. Application of DNA technologies for biotech commercialization.
Grade Mode: Normal Grading Mode

BSC 644 Quantitative Ecology **3 Credit hours**
An introduction to statistical analyses using presence absence, mark-recapture, and count data to estimate population parameters, such as occupancy and survival.
Grade Mode: Normal Grading Mode

BSC 648 Landscape Ecology **3 Credit hours**
Landscape ecology is the study of landscapes at multiple scales with a focus on discerning how landscape structure affects ecological processes. Students will learn foundational concepts, methods, and computer applications.
Grade Mode: Normal Grading Mode

BSC 649 Wetland Ecology **3 Credit hours**
Grade Mode: Normal Grading Mode

BSC 650 Special Problems **1-3 Credit hours**
By permission of adviser. By permission of adviser.
Grade Mode: Credit/No Credit Grade Only

BSC 651 Special Problems **1-3 Credit hours**
By permission of adviser. By permission of adviser.
Grade Mode: Credit/No Credit Grade Only

BSC 652 Special Problems **1-3 Credit hours**
By permission of adviser. By permission of adviser.
Grade Mode: Credit/No Credit Grade Only

BSC 660 Seminar I **2 Credit hours**
Topics relevant to preparation for a career in the life sciences including: literature mining and interpretation, scientific ethics, preparation and delivery of scientific presentations, and career development tools. Topics relevant to preparation for a career in the life sciences including: literature mining and interpretation, scientific ethics, preparation and delivery of scientific presentations, and career development tools.
Attributes: No Textbook Required
Grade Mode: Normal Grading Mode

BSC 661 Topics in Biological Sciences **2 Credit hours**
In depth group discussion of current biological issues. In depth group discussion of current biological issues.
Attributes: No Textbook Required
Grade Mode: Normal Grading Mode

BSC 662 Seminar II **1 Credit hour**
Oral presentation of individual topics. Oral presentation of individual topics.
Pre-req: BSC 660 with a minimum grade of C.
Attributes: No Textbook Required
Grade Mode: Normal Grading Mode

BSC 679 Problem Report **1-4 Credit hours**
Preparation and completion of a written report from experimental or field research in biological sciences. (PR: permission) Preparation and completion of a written report from experimental or field research in biological sciences. (PR: permission)
Grade Mode: Normal Grading Mode

BSC 680 Special Topics **1-4 Credit hours**
Attributes: No Textbook Required
Grade Mode: Normal Grading Mode

BSC 681 Thesis **1-9 Credit hours**
By permission of adviser. By permission of adviser.
Attributes: No Textbook Required
Grade Mode: Normal Grading Mode

BSC 716 Adv Cell Phys Nurse Anesthesia **2 Credit hours**
Study of structure amd function of human cells, including protein synthesis, metabolism and reproduction. Study of genetic disorders and anesthesia. Study of anti-cancer drugs. Analyze types and rules of various cell membrane receptors on anesthesia process. Study of structure amd function of human cells, including protein synthesis, metabolism and reproduction. Study of genetic disorders and anesthesia. Study of anti-cancer drugs. Analyze types and rules of various cell membrane receptors on anesthesia process.
Grade Mode: Normal Grading Mode

BSC 717 Adv Ana Phy Path Nurse 1 **3 Credit hours**
Anatomy, Physiology, pathophysiology and anesthetic considerations related to the respiratory and renal systems.
Grade Mode: Normal Grading Mode

BSC 718 Adv Ana Phy Path Nurse 2 **3 Credit hours**
Anatomy, physiology, pathophysiology and anesthetic considerations related to the cardiovascular system.
Grade Mode: Normal Grading Mode

BSC 719 Adv Ana Phy Path Nurse 3 **3 Credit hours**
Anatomy, physiology, pathophysiology and anesthetic considerations related to the nervous and endocrine systems.
Grade Mode: Normal Grading Mode

Chemistry

CHM 109 Chemistry in the Home **4 Credit hours**
An introduction to basic concepts of chemical science as it applies to materials commonly found within the household. Students will be expected to learn to evaluate potential hazards of such materials.
Pre-req: MTH 121 or MTH 121B or MTH 121H or MTH 125 or MTH 127 or MTH 130 or MTH 130H or MTH 131 or MTH 132 or MTH 140 or MTH 190 or MTH 203 or MTH 220 or STA 225 or MTH 225 or MTH 229 or MTH 229H.
Attributes: Core II Natural Sciences
Grade Mode: Normal Grading Mode

CHM 111 Foundations of Chemistry **3 Credit hours**
This course will introduce students to basic chemical facts and concepts. Topics will include units, dimensional analysis, nomenclature, solutions, atomic structure, and stoichiometry. This course will introduce students to basic chemical facts and concepts. Topics will include units, dimensional analysis, nomenclature, solutions, atomic structure, and stoichiometry.
Pre-req: MTH 127 with a minimum grade of C or ACT Math with a score of 21 or SAT Mathematics Before Mar. 16 with a score of 500 or SAT MATH SECTION SCORE with a score of 530 or MTH 130 with a minimum grade of C.
Attributes: Natural Sciences
Grade Mode: Normal Grading Mode

CHM 205 General, Organic, and Biochem **3 Credit hours**
Introductory course for health professions students and non-science majors covering basic chemical principles with applications in organic chemistry and biochemistry.
Grade Mode: Normal Grading Mode

CHM 211 Principles of Chemistry I **3 Credit hours**
A study of the properties of materials and their interactions with each other. Development of theories and applications of the principles of energetics, dynamics and structure. Intended primarily for science majors and preprofessional students. 3 lec.
Pre-req: (ACT Math with a score of 23 or SAT Mathematics Before Mar. 16 with a score of 540 or SAT MATH SECTION SCORE with a score of 570 or Placement Chemistry with a score of 211 or CHM 111 with a minimum grade of C) and CHM 217 (may be taken concurrently).
Concurrent PR: CHM 217
Attributes: Natural Sciences, Core II Natural Sciences
Grade Mode: Normal Grading Mode

CHM 212 Principles Chemistry II **3 Credit hours**
A continuation of chemistry 211 with emphasis on the inorganic chemistry of the representative elements and transition metals. 3 lec. A continuation of chemistry 211 with emphasis on the inorganic chemistry of the representative elements and transition metals. 3 lec.
Pre-req: (CHM 211 with a minimum grade of C and (CHM 218 (may be taken concurrently) with a minimum grade of D or CHM 218H (may be taken concurrently) with a minimum grade of D).
Concurrent PR: CHM 218 or CHM 218H
Attributes: Natural Sciences, Core II Natural Sciences
Grade Mode: Normal Grading Mode

CHM 217 Principles of Chem Lab I **2 Credit hours**
A laboratory course that demonstrates the application of concepts introduced in Chemistry 211.
Pre-req: CHM 211 (may be taken concurrently).
Concurrent PR: CHM 211
Attributes: Natural Sciences, Core II Natural Sciences
Grade Mode: Normal Grading Mode

CHM 218 Principles of Chem Lab II **2 Credit hours**
A laboratory course that demonstrates the application of concepts introduced in Chemistry 212.
Pre-req: CHM 212 (may be taken concurrently).
Concurrent PR: CHM 212
Attributes: Natural Sciences, Core II Natural Sciences
Grade Mode: Normal Grading Mode

CHM 218H Prin Chem Honor Lab II **2 Credit hours**
An advanced laboratory class designed for Principles of Chemistry II students. This lab will introduce students to concepts and/or techniques important to later laboratory classes and research. An advanced laboratory class designed for Principles of Chemistry II students. This lab will introduce students to concepts and/or techniques important to later laboratory classes and research.
Pre-req: Admitted Honors College with a score of 1.
Co-req: CHM 212
Attributes: Honors, Natural Sciences
Grade Mode: Normal Grading Mode

CHM 280 Special Topics **1-4 Credit hours**
Attributes: Natural Sciences
Grade Mode: Normal Grading Mode

CHM 281 Special Topics **1-4 Credit hours**
Attributes: Natural Sciences
Grade Mode: Normal Grading Mode

CHM 282 Special Topics **1-4 Credit hours**
Attributes: Natural Sciences
Grade Mode: Normal Grading Mode

CHM 283 Special Topics **1-4 Credit hours**
Attributes: Natural Sciences
Grade Mode: Normal Grading Mode

CHM 291H Honors in Chemistry **1-4 Credit hours**
Independent study or undergraduate research project for outstanding students. Independent study or undergraduate research project for outstanding students.
Attributes: Natural Sciences
Grade Mode: Normal Grading Mode

CHM 305 Research Methods Chem **1 Credit hour**
A course concerning the searching and use of the chemical literature, ethical issues relating to the conduct of scientific research, proposal writing, scientific presentations, and proper scientific laboaratory conduct.
Pre-req: CHM 356 with a minimum grade of C.
Attributes: Natural Sciences
Grade Mode: Normal Grading Mode

CHM 327 Intro Organic Chemistry **3 Credit hours**
A one semester introduction to organic chemistry emphasizing structure, nomenclature, and reactivity. (Cannot fulfill an upper division chemistry elective.)
Pre-req: CHM 212 with a minimum grade of C.
Attributes: Natural Sciences
Grade Mode: Normal Grading Mode

CHM 331 Chemistry Seminar **0 Credit hours**
Students attend lectures presented by internal and external speakers to learn about the nature and variety of chemical research. Students attend lectures presented by internal and external speakers to learn about the nature and variety of chemical research.
Attributes: Natural Sciences
Grade Mode: Credit/No Credit Grade Only

CHM 332 Chemistry Seminar **0 Credit hours**
Students attend lectures presented by internal and external speakers to learn about the nature and variety of chemical research. Students attend lectures presented by internal and external speakers to learn about the nature and variety of chemical research.
Attributes: No Textbook Required, Natural Sciences
Grade Mode: Credit/No Credit Grade Only

CHM 345 Intro to Analytical Chem **4 Credit hours**
An introduction to basic techniques of analytical chemistry and data analysis through statistical procedures. Traditional wet and contemporary instrumental methods are covered with an emphasis on experimental care and craftsmanship. An introduction to basic techniques of analytical chemistry and data analysis through statistical procedures. Traditional wet and contemporary instrumental methods are covered with an emphasis on experimental care and craftsmanship.
Pre-req: CHM 212 with a minimum grade of C and (CHM 218 with a minimum grade of C or CHM 218H with a minimum grade of C).
Attributes: Natural Sciences
Grade Mode: Normal Grading Mode

CHM 355 Organic Chemistry I **3 Credit hours**
A systematic study of organic chemistry including modern structural theory, spectroscopy, and stereochemistry; application of these topics to the study of reactions and their mechanisms and applications to synthesis. 3 lec. No individual may make more than 3 attempts at CHM 355 (i.e., any combination of three W, D, F or NC grades will preclude the individual from future registration).
Pre-req: CHM 212 with a minimum grade of C.
Attributes: Natural Sciences
Grade Mode: Normal Grading Mode

CHM 356 Organic Chemistry II **3 Credit hours**
Continuation of Chemistry 355. 3 lec. Continuation of Chemistry 355. 3 lec.
Pre-req: CHM 355 with a minimum grade of C.
Attributes: Natural Sciences
Grade Mode: Normal Grading Mode

CHM 357 Physical Chemistry: Quantum **4 Credit hours**
A study of quantum mechanics applied to atomic structure, chemical bonding, and spectroscopy. 3 lec.-2 lab.
Pre-req: CHM 212 with a minimum grade of C and (MTH 229 with a minimum grade of C or MTH 229H with a minimum grade of C) and (PHY 211 with a minimum grade of C or PHY 201 with a minimum grade of C).
Attributes: Natural Sciences
Grade Mode: Normal Grading Mode

CHM 358 Physical Chemistry: Thermo. **4 Credit hours**
A study of chemical thermodynamics, equilibrium, and kinetics. 3 lec.-2 lab.
Pre-req: CHM 212 with a minimum grade of C and (MTH 229 with a minimum grade of C or MTH 229H with a minimum grade of C) and (PHY 211 with a minimum grade of C or PHY 201 with a minimum grade of C).
Attributes: Natural Sciences
Grade Mode: Normal Grading Mode

CHM 361 Intro Organic Chm Lab **3 Credit hours**
An introduction to of experimental organic chemistry with emphasis on fundamental techniques and their application to the preparation and identification of organic compounds. 6 lab. An introduction to of experimental organic chemistry with emphasis on fundamental techniques and their application to the preparation and identification of organic compounds. 6 lab.
Pre-req: CHM 356 (may be taken concurrently).
Concurrent PR: CHM 356
Attributes: Natural Sciences
Grade Mode: Normal Grading Mode

CHM 361H Intro Honors Organic Chem Lab **3 Credit hours**
This laboratory will introduce students to advanced concepts and techniques in organic synthesis and spectroscopy. It requires students to engage in an independent synthetic project from the chemical literature.
Pre-req: CHM 356 (may be taken concurrently) and Admitted Honors College with a score of 1.
Concurrent PR: CHM 356
Attributes: Honors
Grade Mode: Normal Grading Mode

CHM 365 Introductory Biochemistry **3 Credit hours**
A survey course including introduction to basic biochemical concepts, metabolic pathways, and bioenergetics. 3 lec. A survey course including introduction to basic biochemical concepts, metabolic pathways, and bioenergetics. 3 lec.
Pre-req: CHM 327 with a minimum grade of C or CHM 356 with a minimum grade of C.
Attributes: Natural Sciences
Grade Mode: Normal Grading Mode

CHM 366 Intro Biochemistry Lab **2 Credit hours**
Introduction to basic biochemical laboratory techniques including chromatography, electrophoresis, and enzyme kinetics; methods for identification and characterization of biochemical systems. 4 lab.
Pre-req: CHM 365 with a minimum grade of C.
Attributes: Natural Sciences
Grade Mode: Normal Grading Mode

CHM 390H Honors in Chemistry **1-4 Credit hours**
Independent study or undergraduate research project for outstanding students. Independent study or undergraduate research project for outstanding students.
Pre-req: Admitted Honors College with a score of 1.
Attributes: Honors, Natural Sciences
Grade Mode: Normal Grading Mode

CHM 391H Honors in Chemistry **1-4 Credit hours**
Independent study or undergraduate research project for outstanding students. Independent study or undergraduate research project for outstanding students.
Attributes: Natural Sciences
Grade Mode: Normal Grading Mode

CHM 401 Research for Undergrad **1-4 Credit hours**
Students engage in research project in collaboration with a faculty member. Students engage in research project in collaboration with a faculty member.
Attributes: Natural Sciences
Grade Mode: Normal Grading Mode

CHM 411 Modern Instrument Methods **4 Credit hours**
This course investigates the theory and functional aspects of modern analytical instrumentation. Emphasis is placed on the components of instruments and the applicability of various techniques to specific analytical problems. This course investigates the theory and functional aspects of modern analytical instrumentation. Emphasis is placed on the components of instruments and the applicability of various techniques to specific analytical problems.
Pre-req: CHM 356 with a minimum grade of C.
Attributes: Natural Sciences
Grade Mode: Normal Grading Mode

CHM 423 Environ Analytical Chemistry **4 Credit hours**
Sampling and modern instrumental analysis of water, air and sediments according to EPA methodology. May be used to fulfill the American Chemical Society Environmental Chemistry certification. (PR: C or better in CHM 345). Sampling and modern instrumental analysis of water, air and sediments according to EPA methodology. May be used to fulfill the American Chemical Society Environmental Chemistry certification. (PR: C or better in CHM 345).
Pre-req: CHM 345 with a minimum grade of C and CHM 307 or CHM 358.
Attributes: Natural Sciences
Grade Mode: Normal Grading Mode

CHM 428 Intro Forensic Methods **3 Credit hours**
Introduction to crime scene investigation, physical evidence collection, serology and DNA technologies (PCR, RFLP). Discussion of statistical analysis of DNA and managing a DNA database, using CODIS as an example.
Pre-req: CHM 365 and (BSC 322 or BSC 324).
Attributes: Natural Sciences
Grade Mode: Normal Grading Mode

CHM 431 Chemistry Seminar **0 Credit hours**
Students attend lectures presented by internal and external speakers to learn about the nature and variety of chemical research. Students attend lectures presented by internal and external speakers to learn about the nature and variety of chemical research.
Attributes: Natural Sciences
Grade Mode: Credit/No Credit Grade Only

CHM 432 Chemistry Seminar **0 Credit hours**
Students attend lectures presented by internal and external speakers to learn about the nature and variety of chemical research. Students also present an oral and written presentation of their capstone experience. Students attend lectures presented by internal and external speakers to learn about the nature and variety of chemical research. Students also present an oral and written presentation of their capstone experience.
Pre-req: CHM 490 or CHM 491.
Attributes: Natural Sciences
Grade Mode: Credit/No Credit Grade Only

CHM 443 Protein Biotechnology **3 Credit hours**
Discussion covers basics of protein structure and function, post-translational modification and transport simple immunology. Laboratories include protein quantitation, enzyme kinetics, protein purification and dialysis protein gel electrophoresis and staining.
Pre-req: BSC 120 with a minimum grade of D.
Grade Mode: Normal Grading Mode

CHM 448 Adv Inorganic Chemistry I **4 Credit hours**
Study of physical properties and periodic relationships of inorganic materials. 3 lec, 2 lab.
Pre-req: CHM 356 with a minimum grade of C and (CHM 357 with a minimum grade of C or CHM 358 with a minimum grade of C).
Attributes: Natural Sciences
Grade Mode: Normal Grading Mode

CHM 451 Biological Mass Spectrometry **4 Credit hours**
This course investigates the theory and applications of mass spectrometry. It includes a laboratory component in which you will learn to run the mass spectrometers and interpret mass spectral results.
Pre-req: CHM 356 with a minimum grade of C.
Grade Mode: Normal Grading Mode

CHM 465 Adv Organic Chemistry I **3 Credit hours**
Studies of the dynamics of organic reactions with emphasis on mechanisms and stereochemistry. 3 lec.
Pre-req: CHM 356 with a minimum grade of C.
Attributes: Natural Sciences
Grade Mode: Normal Grading Mode

CHM 466 Adv Organic Chemistry II **3 Credit hours**
A continuation of Chemistry 465 with emphasis on synthetic methods. 3 lec. A continuation of Chemistry 465 with emphasis on synthetic methods. 3 lec.
Pre-req: CHM 356 with a minimum grade of C.
Attributes: Natural Sciences
Grade Mode: Normal Grading Mode

CHM 467 Intermediate Biochemistry **3 Credit hours**
An intermediate level discussion of the biochemistry of mammalian cells.
Pre-req: CHM 365 with a minimum grade of C or BSC 365 with a minimum grade of C.
Attributes: Natural Sciences
Grade Mode: Normal Grading Mode

CHM 478 Appl Microscopy in Research **4 Credit hours**
A combined lecture/lab/self-motivated research course that results in a microscopy based project to be presented by each student in a public forum (may augment capstone). A combined lecture/lab/self-motivated research course that results in a microscopy based project to be presented by each student in a public forum (may augment capstone).
Grade Mode: Normal Grading Mode

CHM 480 Special Topics **1-4 Credit hours**
Attributes: Natural Sciences
Grade Mode: Normal Grading Mode

CHM 481 Special Topics **1-4 Credit hours**
Attributes: Natural Sciences
Grade Mode: Normal Grading Mode

CHM 482 Special Topics **1-4 Credit hours**
Attributes: Natural Sciences
Grade Mode: Normal Grading Mode

CHM 483 Special Topics **1-4 Credit hours**
Attributes: Natural Sciences
Grade Mode: Normal Grading Mode

CHM 485 Independent Study **1-4 Credit hours**
Attributes: Natural Sciences
Grade Mode: Normal Grading Mode

CHM 486 Independent Study **1-4 Credit hours**
Attributes: Natural Sciences
Grade Mode: Normal Grading Mode

CHM 490 Internship **1-6 Credit hours**
Students engage in supervised chemical laboratory work in a professional setting. Students engage in supervised chemical laboratory work in a professional setting.
Pre-req: CHM 305.
Attributes: Capstone Course, Natural Sciences
Grade Mode: Normal Grading Mode

CHM 491 Capstone Experience **2-4 Credit hours**
Students engage in a collaborative research project with a faculty member. Students engage in a collaborative research project with a faculty member.
Pre-req: CHM 305.
Attributes: Capstone Course, Natural Sciences
Grade Mode: Normal Grading Mode

CHM 495H Honors in Chemistry **3-4 Credit hours**
Open only to chemistry majors of outstanding ability. Open only to chemistry majors of outstanding ability.
Attributes: Natural Sciences
Grade Mode: Normal Grading Mode

CHM 511 Modern Instrument Methods **4 Credit hours**
This course investigates the theory and functional aspects of modern analytical instrumentation. Emphasis is placed on the components of instruments and the applicability of various techniques to specific analytical problems. This course investigates the theory and functional aspects of modern analytical instrumentation. Emphasis is placed on the components of instruments and the applicability of various techniques to specific analytical problems.
Pre-req: CHM 307 with a minimum grade of C or CHM 357 with a minimum grade of C.
Grade Mode: Normal Grading Mode

CHM 540 Thermodynamics **3 Credit hours**
An introduction to chemical thermodynamics and statistical mechanics. 3 lec. An introduction to chemical thermodynamics and statistical mechanics. 3 lec.
Grade Mode: Normal Grading Mode

CHM 542 Quantum Mechanics **3 Credit hours**
An introductory course in quantum mechanics. 3 lec. An introductory course in quantum mechanics. 3 lec.
Grade Mode: Normal Grading Mode

CHM 548 Adv Inorganic Chemistry I **4 Credit hours**
Study of physical and chemical properties and periodic relationships of inorganic materials. 3 lec, 2 lab (PR: CHM 356, CHM 307, or CHM 357) Study of physical and chemical properties and periodic relationships of inorganic materials. 3 lec, 2 lab (PR: CHM 356, CHM 307, or CHM 357)
Grade Mode: Normal Grading Mode

CHM 549 Adv Inorganic Chem II **3 Credit hours**
A detailed consideration of bonding, structure, reaction rates and equilibrium involving inorganic materials. 3 lec. A detailed consideration of bonding, structure, reaction rates and equilibrium involving inorganic materials. 3 lec.
Grade Mode: Normal Grading Mode

CHM 551 Biological Mass Spectrometry **4 Credit hours**
This course investigates the theory and applications of mass spectrometry. It includes a laboratory component in which you will learn to run the mass spectrometers and interpret mass spectral results.
Grade Mode: Normal Grading Mode

CHM 565 Adv Organic Chemistry I **3 Credit hours**
Studies of the dynamics of organic reactions with emphasis on mechanisms and stereo chemistry. 3 lec. Studies of the dynamics of organic reactions with emphasis on mechanisms and stereo chemistry. 3 lec.
Grade Mode: Normal Grading Mode

CHM 566 Adv Organic Chemistry II **3 Credit hours**
A continuation of Chemistry 565 with emphasis on synthetic methods. 3 lec. A continuation of Chemistry 565 with emphasis on synthetic methods. 3 lec.
Pre-req: CHM 565.
Grade Mode: Normal Grading Mode

CHM 567 Intermediate Biochemistry **3 Credit hours**
A survey course including introduction to basic biochemical concepts, bioenergetics, and information transfer. A survey course including introduction to basic biochemical concepts, bioenergetics, and information transfer.
Pre-req: CHM 365 with a minimum grade of C or BSC 365 with a minimum grade of C.
Grade Mode: Normal Grading Mode

CHM 580 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

CHM 581 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

CHM 582 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

CHM 583 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

CHM 585 Independent Study **1-4 Credit hours**
Attributes: No Textbook Required
Grade Mode: Normal Grading Mode

CHM 586 Independent Study **1-4 Credit hours**
Grade Mode: Normal Grading Mode

CHM 587 Independent Study **1-4 Credit hours**
Grade Mode: Normal Grading Mode

CHM 588 Independent Study **1-4 Credit hours**
Grade Mode: Normal Grading Mode

CHM 604 Theories Analytical Chem **2 Credit hours**
Offered on demand. Offered on demand.
Pre-req: CHM 556.
Grade Mode: Normal Grading Mode

CHM 607 Theoretical Organic Chem **2 Credit hours**
The application of quantitative methods to problems in structure and dynamics. 2 lec. The application of quantitative methods to problems in structure and dynamics. 2 lec.
Pre-req: CHM 565.
Grade Mode: Normal Grading Mode

CHM 618 Kinetics **3 Credit hours**
An advanced study of reaction rates and mechanisms. An advanced study of reaction rates and mechanisms.
Grade Mode: Normal Grading Mode

CHM 628 Special Topics-Inorganic **1-3 Credit hours**
Offered on demand. Offered on demand.
Grade Mode: Normal Grading Mode

CHM 629 Special Topics-Organic **1-3 Credit hours**
Offered on demand. Offered on demand.
Grade Mode: Normal Grading Mode

CHM 630 Special Topics-Physical **1-3 Credit hours**
Offered on demand. Offered on demand.
Grade Mode: Normal Grading Mode

CHM 631 Seminar **1 Credit hour**
Attributes: No Textbook Required
Grade Mode: Normal Grading Mode

CHM 632 Seminar **1 Credit hour**
Attributes: No Textbook Required
Grade Mode: Normal Grading Mode

CHM 678 Applied Micr in Research **4 Credit hours**
A combined lecture/lab/self-motivated research course that results in a microscopy based project to be presented by each student at an open forum (can augment thesis project). A combined lecture/lab/self-motivated research course that results in a microscopy based project to be presented by each student at an open forum (can augment thesis project).
Grade Mode: Normal Grading Mode

CHM 679 Problem Report **3 Credit hours**
Preparation of a comprehensive written report on a topic in Chemistry of current importance. Registration only by permission of Department. Preparation of a comprehensive written report on a topic in Chemistry of current importance. Registration only by permission of Department.
Grade Mode: Normal Grading Mode

CHM 682 Research **1-12 Credit hours**
Credit in the course is earned by pursuing a directed original investigation in a field of chemistry. Twelve semester hours credit in research are applied toward the M.S. degree. Students may sign for one or more credit hurs per semester depending upon the time to be spent on research. A grade of PR may be reported at the close of each term or semester. Credit in the course is earned by pursuing a directed original investigation in a field of chemistry. Twelve semester hours credit in research are applied toward the M.S. degree. Students may sign for one or more credit hurs per semester depending upon the time to be spent on research. A grade of PR may be reported at the close of each term or semester.
Attributes: Thesis
Grade Mode: Normal Grading Mode

CHM 685 Independent Study **1-4 Credit hours**
Individual study of topics not offered in regularly scheduled classes. Individual study of topics not offered in regularly scheduled classes.
Grade Mode: Normal Grading Mode

CHM 686 Independent Study **1-4 Credit hours**
Individual study of topics not offered in regularly scheduled classes. Individual study of topics not offered in regularly scheduled classes.
Grade Mode: Normal Grading Mode

CHM 687 Independent Study **1-4 Credit hours**
Individual study of topics not offered in regularly scheduled classes. Individual study of topics not offered in regularly scheduled classes.
Grade Mode: Normal Grading Mode

CHM 688 Independent Study **1-4 Credit hours**
Individual studt of topics not offered in regularly scheduled classes. Individual studt of topics not offered in regularly scheduled classes.
Grade Mode: Normal Grading Mode

CHM 723 Chemistry and Physics **3 Credit hours**
Scientific prinicples and clinical application of properties of matter, gas laws, vaporization, fluid dynamics, explosion hazards, electrical safety, acid-base balance, blood gas analysis, biochemistry in anesthesia, mechanisms of narcosis. Analyze the molecular basis for molecular bonding, stereochemistry, protein confirmation, enzyme-substrate reactions.
Grade Mode: Normal Grading Mode

Physics

PHY 101 Conceptual Physics **3 Credit hours**
Introduces nonscience majors to applications of physics in life. Emphasizes conceptual understanding of basic principles in classical and modern physics. Recommended for science students with no high school physics.
Pre-req: (MTH 121 with a minimum grade of D or MTH 127 with a minimum grade of D or MTH 130 with a minimum grade of D or MTH 130E with a minimum grade of D or MTH 132 with a minimum grade of D or MTH 229 with a minimum grade of D or MTH 229H with a minimum grade of D or MTH 203 with a minimum grade of D or MTH 121B with a minimum grade of D) or MTH 130H with a minimum grade of D and PHY 101L (may be taken concurrently) with a minimum grade of D.
Concurrent PR: PHY 101L
Co-req: PHY 101L
Attributes: Natural Sciences, Core II Natural Sciences
Grade Mode: Normal Grading Mode

PHY 101L Conceptual Physics Lab **1 Credit hour**
Conceptual Physics Laboratory. A laboratory course designed to include the principles and applications of physics that are introduced in Physics 101. (CR: PHY 101) 2 lab. Conceptual Physics Laboratory. A laboratory course designed to include the principles and applications of physics that are introduced in Physics 101. (CR: PHY 101) 2 lab.
Co-req: PHY 101
Attributes: Natural Sciences, Core II Natural Sciences
Grade Mode: Normal Grading Mode

PHY 190 Overview of Physics (CT) **3 Credit hours**
An algebra-based overview of well-established topics studied as part of a major in physics, including classical physics, special relativity, quantum mechanics, particle physics, and cosmology.
Attributes: Critical Thinking
Grade Mode: Normal Grading Mode

PHY 201 College Physics I **3 Credit hours**
First half of an introduction to physics for life-science students, using algebra and trigonometry, including kinematics and dynamics, force, energy, rotation, fluids, waves, and therma phenomena.
Pre-req: (MTH 127 with a minimum grade of D and MTH 122 with a minimum grade of D) or (MTH 130 with a minimum grade of D and MTH 122 with a minimum grade of D) or MTH 132 with a minimum grade of D or (MTH 140 with a minimum grade of D and MTH 122 with a minimum grade of D) or MTH 229 with a minimum grade of D or MTH 229H with a minimum grade of D or MTH 140H with a minimum grade of D and PHY 202 (may be taken concurrently) with a minimum grade of D.
Concurrent PR: PHY 202
Attributes: Natural Sciences, Core II Natural Sciences
Grade Mode: Normal Grading Mode

PHY 202 General Physics I Laboratory **1 Credit hour**
Laboratory to accompany PHY 201 or PHY 211, focusing on mechanics concepts and applications.
Pre-req: PHY 201 (may be taken concurrently) with a minimum grade of D or PHY 211 (may be taken concurrently) with a minimum grade of D.
Concurrent PR: PHY 201 or PHY 211
Attributes: Natural Sciences, Core II Natural Sciences
Grade Mode: Normal Grading Mode

PHY 203 College Physics II **3 Credit hours**
Second half of an introduction to physics for life-science students, using algebra and trigonometry, including electric and magnetic fields, circuits, geometrical and physical optics, atomic and nuclear physics.
Pre-req: (PHY 201 with a minimum grade of C and PHY 202 with a minimum grade of C) and PHY 204 (may be taken concurrently) with a minimum grade of C.
Concurrent PR: PHY 204
Attributes: Natural Sciences, Core II Natural Sciences
Grade Mode: Normal Grading Mode

PHY 204 General Physics 2 Laboratory **1 Credit hour**
Laboratory to accompany PHY 203 or PHY 213, focusing on classical E&M, circuits, and optics.
Pre-req: (PHY 203 (may be taken concurrently) with a minimum grade of D or PHY 213 (may be taken concurrently) with a minimum grade of D).
Concurrent PR: PHY 203 or PHY 213
Attributes: Natural Sciences, Core II Natural Sciences
Grade Mode: Normal Grading Mode

PHY 211 University Physics I **4 Credit hours**
First half of an introduction to physics for physical science and engineering students, using calculus, and including kinematics and dynamics, force, energy, rotation, fluids, waves, and thermal phenomena.
Pre-req: (MTH 229 (may be taken concurrently) with a minimum grade of D or MTH 229H (may be taken concurrently) with a minimum grade of D) and PHY 202 (may be taken concurrently) with a minimum grade of D.
Concurrent PR: (MTH 229 or MTH 229H) and PHY 202
Attributes: Natural Sciences, Core II Natural Sciences
Grade Mode: Normal Grading Mode

PHY 213 University Physics II **4 Credit hours**
Second half of an introduction to physics for physical science or engineering students, using calculus, including electric and magnetic fields, circuits, geometrical and physical optics, atomic and nuclear physics.
Pre-req: MTH 230 (may be taken concurrently) and PHY 204 (may be taken concurrently) and (PHY 201 with a minimum grade of C or PHY 211 with a minimum grade of C) and PHY 202.
Concurrent PR: MTH 230 and PHY 204
Attributes: Natural Sciences, Core II Natural Sciences
Grade Mode: Normal Grading Mode

PHY 214 Lab Methods in Physics **1 Credit hour**
A laboratory course to accompany Physics 211-213. 3 lab. A laboratory course to accompany Physics 211-213. 3 lab.
Pre-req: PHY 213 (may be taken concurrently).
Concurrent PR: PHY 213
Attributes: Natural Sciences, Core II Natural Sciences
Grade Mode: Normal Grading Mode

PHY 222 Investigate the Universe **2 Credit hours**
A creative laboratory course designed to give students an opporutnity to work with modern research equipment, with ample time to conduct experiments and/or investigate phenomenae of their choosing.
Pre-req: (MTH 122 and MTH 127) or (MTH 122 and MTH 130) or MTH 132.
Grade Mode: Normal Grading Mode

PHY 261 Enhancement for Physics I **1 Credit hour**
Additional aspects in mechanics (calculus, array vectors and matrices, distributions), to make College Physics 1 equivalent to University Physics 1.
Pre-req: PHY 201 with a minimum grade of C or MTH 229 with a minimum grade of C.
Grade Mode: Normal Grading Mode

PHY 263 Enhancement for Physics II **1 Credit hour**
Additional aspects in E&M and Optics, Modern Physics, (calculus and multipole functions) to make College Physics 2 equivalent to University Physics 2.
Grade Mode: Normal Grading Mode

PHY 280 Special Topics **1-4 Credit hours**
Attributes: Natural Sciences
Grade Mode: Normal Grading Mode

PHY 281 Special Topics **1-4 Credit hours**
Attributes: Natural Sciences
Grade Mode: Normal Grading Mode

PHY 300 Electricity & Magnetism **3 Credit hours**
A course including the study of electrostatics, magnetostatics, electromagnetic induction, introduction to Maxwell's equations and electromagnetic waves. 3 lec. A course including the study of electrostatics, magneto- statics, electromagnetic induction, introduction to Maxwell's equations and electromagnetic waves. 3 lec.
Pre-req: (PHY 203 or PHY 213) and MTH 231.
Attributes: Natural Sciences
Grade Mode: Normal Grading Mode

PHY 302 Electricity & Magnetism II **3 Credit hours**
A study of Maxwell's equations and electromagnetic waves, radiation theory, optical phenomena, and electrodynamics. 3 lec. A study of Maxwell's equations and electromagnetic waves, radiation theory, optical phenomena, and electrodynamics. 3 lec.
Pre-req: PHY 300.
Attributes: Natural Sciences
Grade Mode: Normal Grading Mode

PHY 304 Optics **3 Credit hours**
An intermediate course in geometrical and physical optics. 3 lec. An intermediate course in geometrical and physical optics. 3 lec.
Pre-req: (PHY 203 or PHY 213) and (PHY 405 (may be taken concurrently) or PHY 505 (may be taken concurrently)).
Concurrent PR: PHY 405 or PHY 505
Attributes: Natural Sciences
Grade Mode: Normal Grading Mode

PHY 308 Thermal Physics **3 Credit hours**
A study of thermodynamics, kinetic theory of gases, and an introduction to statistical mechanics 3 lec.
Pre-req: (PHY 203 or PHY 213) and MTH 231.
Attributes: Natural Sciences
Grade Mode: Normal Grading Mode

PHY 314 Electronic Physics **3 Credit hours**
A study of transistors, integrated circuits and their associated circuits. 3 lec. A study of transistors, integrated circuits and their associated circuits. 3 lec.
Pre-req: PHY 203 with a minimum grade of D or PHY 213 with a minimum grade of D and PHY 415 (may be taken concurrently) with a minimum grade of D.
Concurrent PR: PHY 415
Attributes: Natural Sciences
Grade Mode: Normal Grading Mode

PHY 320 Intro Modern Physics **3 Credit hours**
An introductory study of atomic and molecular theories, relativity, quantum theory, and nuclear physics. 3 lec. An introductory study of atomic and molecular theories, relativity, quantum theory, and nuclear physics. 3 lec.
Pre-req: MTH 230 and (PHY 203 or PHY 213).
Co-req: PHY 421
Attributes: Natural Sciences
Grade Mode: Normal Grading Mode

PHY 330 Mechanics **3 Credit hours**
An intermediate study of the fundamental principles of statics of particles and rigid bodies, momentum and energy, dynamics of particles, harmonic oscillations, and wave motion. 3 lec. An intermediate study of the fundamental principles of statics of particles and rigid bodies, momentum and energy, dynamics of particles, harmonic oscillations, and wave motion. 3 lec.
Pre-req: MTH 231 and (PHY 203 or PHY 213).
Attributes: Natural Sciences
Grade Mode: Normal Grading Mode

PHY 340 Scientific Computing **3 Credit hours**
Introduction to some of the most important tools and techniques in scientific computing, including object-oriented design, version control, and MPI for high-performance computing.
Pre-req: MTH 229 with a minimum grade of D or MTH 229H with a minimum grade of D or IST 163 with a minimum grade of D.
Grade Mode: Normal Grading Mode

PHY 350 Biological Physics **3 Credit hours**
Physical principles underlying the mechanisms by which living organisms survive, adapt, grow. Will enhance writing skills and strategies. 2 lec - 2 lab. (PR: PHY 203 or 213, and PHY 204)
Pre-req: PHY 203 (may be taken concurrently) or PHY 213 (may be taken concurrently) and PHY 204.
Concurrent PR: PHY 203 or PHY 213
Attributes: Natural Sciences
Grade Mode: Normal Grading Mode

PHY 360 Medical Physics **3 Credit hours**
Physical principles applied to devise methods for diagnostic and treatment of the human body. Will enhance writing skills and strategies.
Pre-req: (PHY 203 with a minimum grade of D or PHY 213 with a minimum grade of D) and PHY 204 with a minimum grade of D.
Grade Mode: Normal Grading Mode

PHY 405 Optics Lab **2 Credit hours**
A course in optical experiments encompassing geometrical and physical optics. This course is to be taken with Physics 304.
Pre-req: PHY 304 (may be taken concurrently).
Concurrent PR: PHY 304
Attributes: Natural Sciences
Grade Mode: Normal Grading Mode

PHY 408 Thermal Stat Physics **3 Credit hours**
Introduction to Thermodynamics, kinetic theory of gases, classical and quantum statistical mechanics, Bose-Einstein and Fermi-Dirac statistics, and application. 3 lec.
Pre-req: MTH 231 with a minimum grade of D and (PHY 203 with a minimum grade of D and PHY 213 with a minimum grade of D).
Grade Mode: Normal Grading Mode

PHY 415 Electronics Lab **2 Credit hours**
A course in laboratory measurements encompassing transistors, integrated circuits, and their associated circuits. This course is to be taken with Physics 314.
Pre-req: PHY 314 (may be taken concurrently) with a minimum grade of D.
Concurrent PR: PHY 314
Attributes: Natural Sciences
Grade Mode: Normal Grading Mode

PHY 420 Astrophysics **3 Credit hours**
A detailed study of core problems in Astrophysics such as orbital dynamics, radiation processes, stellar structure and evolution, galactic dynamics, and cosmology.
Pre-req: PHY 213 with a minimum grade of D and MTH 231 with a minimum grade of D.
Grade Mode: Normal Grading Mode

PHY 421 Modern Physics Lab **2 Credit hours**
Laboratory exercises on modern physics topics encompassing both experiments of historic significance and current applications. To be taken with Physics 320, or equivalent.
Co-req: PHY 320
Attributes: Natural Sciences
Grade Mode: Normal Grading Mode

PHY 425 Solid State Physics **3 Credit hours**
The course provides a broad introduction to the structure and physical properties of solids. It also serves as a basis for advanced courses in solid state and condensed matter physics. The course provides a broad introduction to the structure and physical properties of solids. It also serves as a basis for advanced courses in solid state and condensed matter physics.
Pre-req: PHY 320 or PHY 442 or CHM 442.
Attributes: Natural Sciences
Grade Mode: Normal Grading Mode

PHY 435 Computational Physics **3 Credit hours**
A course on using numerical methods and computer programming languages for solving complex physics problems and for the simulation of various physical processes. 2 lec-2 lab.
Pre-req: PHY 213 with a minimum grade of D and PHY 330 with a minimum grade of D and (PHY 445 with a minimum grade of D or PHY 446 with a minimum grade of D) and MTH 231 with a minimum grade of D.
Grade Mode: Normal Grading Mode

PHY 442 Quantum Mechanics **3 Credit hours**
A study of waves and particles, the Schroedinger and Heisenberg formulations, particles in potential fields, scattering and perturbation theories, and application to atomic and nuclear structure. 3 lec. A study of waves and particles, the Schroedinger and Heisenberg formulations, particles in potential fields, scattering and perturbation theories, and application to atomic and nuclear structure. 3 lec.
Pre-req: MTH 335 and PHY 330.
Attributes: Natural Sciences
Grade Mode: Normal Grading Mode

PHY 443 Quantum Mechanics II **3 Credit hours**
This is the second part of a two-semester introduction to quantum mechanics. Emphasis is on applications of quantum theory including approximation techniques and the study of more realistic quantum systems. This is the second part of a two-semester introduction to quantum mechanics. Emphasis is on applications of quantum theory including approximation techniques and the study of more realistic quantum systems.
Pre-req: PHY 442 with a minimum grade of D or CHM 442 with a minimum grade of D.
Grade Mode: Normal Grading Mode

PHY 444 Advanced Laboratory **2 Credit hours**
Developments in producing and detecting correlated photon pairs has enabled implementation of undergraduate laboratories demonstrating fundamental quantum mechanical principles. This laboratory also incorporates fundamental solid state and materials science experiments.
Pre-req: PHY 425 (may be taken concurrently) and PHY 442 (may be taken concurrently).
Concurrent PR: PHY 425 and PHY 442
Co-req: PHY 425, PHY 442
Grade Mode: Normal Grading Mode

PHY 445 Math Methods of Physics **3 Credit hours**
An introduction to theory of orthogonal functions, curvilinear coordinate systems, vector and tensor fields, and their applications in physics. Problems are drawn from different areas of physics. 3 lec. An introduction to theory of orthogonal functions, curvilinear coordinate systems, vector and tensor fields, and their applications in physics. Problems are drawn from different areas of physics. 3 lec.
Pre-req: PHY 203 or PHY 213 and MTH 231.
Attributes: Natural Sciences
Grade Mode: Normal Grading Mode

PHY 446 Math Methods of Physics II **3 Credit hours**
A second semester of a full year course on methods of solving problems in physics: calculus of variations, ordinary and partial differential equations, and special functions with real physics problems.
Pre-req: PHY 445.
Grade Mode: Normal Grading Mode

PHY 447 Mechanics for Teachers **4 Credit hours**
An indepth study of mechanics for education majors specializing in Physics with emphasis on problem solving techniques, demonstrations, experiments and computer applications. (PR: PHY 203, MTH 122 and MTH 140) An indepth study of mechanics for education majors specializing in Physics with emphasis on problem solving techniques, demonstrations, experiments and computer applications. (PR: PHY 203, MTH 122 and MTH 140)
Pre-req: PHY 203 or PHY 213.
Attributes: Natural Sciences
Grade Mode: Normal Grading Mode

PHY 480 Special Topics **2-4 Credit hours**
By permission of department chairman. By permission of department chairman.
Attributes: Natural Sciences
Grade Mode: Normal Grading Mode

PHY 481 Special Topics **1-4 Credit hours**
By permission of department chairman. By permission of department chairman.
Attributes: Natural Sciences
Grade Mode: Normal Grading Mode

PHY 482 Special Topics **1-4 Credit hours**
By permission of department chairman. By permission of department chairman.
Attributes: Natural Sciences
Grade Mode: Normal Grading Mode

PHY 483 Special Topics **1-4 Credit hours**
By permission of department chairman. By permission of department chairman.
Attributes: Natural Sciences
Grade Mode: Normal Grading Mode

PHY 485 Independent Study **1-4 Credit hours**
Attributes: Natural Sciences
Grade Mode: Normal Grading Mode

PHY 486 Independent Study **1-4 Credit hours**
Attributes: No Textbook Required, Natural Sciences
Grade Mode: Normal Grading Mode

PHY 487 Independent Study **1-4 Credit hours**
Attributes: Natural Sciences
Grade Mode: Normal Grading Mode

PHY 488 Independent Study **1-4 Credit hours**
Attributes: Natural Sciences
Grade Mode: Normal Grading Mode

PHY 491 Capstone **1-2 Credit hours**
To give a capstone expeience to physics majors in their junior or senior years by applying the principles of physics to the solution of real life problems. (PR: CSD 203, or 218 and lab). To give a capstone expeience to physics majors in their junior or senior years by applying the principles of physics to the solution of real life problems. (PR: CSD 203, or 218 and lab).
Attributes: Capstone Course, Natural Sciences
Grade Mode: Normal Grading Mode

PHY 492 Capstone **1-2 Credit hours**
To give a capstone experience to physics majors in their junior or senior years by applying the principles of physics to the solution of real life problems. (PR: PHY 491) To give a capstone experience to physics majors in their junior or senior years by applying the principles of physics to the solution of real life problems. (PR: PHY 491)
Pre-req: PHY 491 with a minimum grade of D.
Attributes: Capstone Course, No Textbook Required, Natural Sciences
Grade Mode: Normal Grading Mode

PHY 505 Optics Lab **2 Credit hours**
A course in optical experiments encompassing geometrical and physical optics. This course is to be taken with Physics 304.
Pre-req: PHY 304 (may be taken concurrently).
Concurrent PR: PHY 304
Grade Mode: Normal Grading Mode

PHY 508 Thermal and Stat Physics **3 Credit hours**
Introduction to Thermodynamics, kinetic theory of gases, classical and quantum statistical mechanics, Bose-Einstein and Fermi-Dirac statistics, and application. 3 cr. lec.
Grade Mode: Normal Grading Mode

PHY 515 Electronics Lab **2 Credit hours**
A course in laboratory measurements encompassing transistors, integrated circuits, and their associated circuits. This course is to be taken with Physics 314.
Grade Mode: Normal Grading Mode

PHY 520 Astrophysics **3 Credit hours**
A detailed study of core problems in Astrophysics such as orbital dynamics, radiation processes, stellar structure and evolution, galactic dynamics, and cosmology.
Grade Mode: Normal Grading Mode

PHY 521 Modern Physics Lab **2 Credit hours**
Laboratory exercises on modern physics topics encompassing both experiments of historic significance and current applications. To be taken with Physics 320, or equivalent.
Grade Mode: Normal Grading Mode

PHY 525 Solid State Physics **3 Credit hours**
The purpose of this course is to provide a broad introduction to the structures and physical properties of solids, which are of extraordinary importance in the modern world. The purpose of this course is to provide a broad introduction to the structures and physical properties of solids, which are of extraordinary importance in the modern world.
Grade Mode: Normal Grading Mode

PHY 535 Computational Physics **3 Credit hours**
A course in using numerical methods and computer programming languages for solving complex physics problems and for the simulation of various physical processes. 2 lec-2 lab.
Grade Mode: Normal Grading Mode

PHY 542 Quantum Mechanics **3 Credit hours**
Mathematical formalism of quantum mechanics, particles in potential fields, perturbation theory and other approximation methods, scattering, applications to simple systems. 3 lec. Mathematical formalism of quantum mechanics, particles in potential fields, perturbation theory and other approxima- tion methods, scattering, applications to simple systems. 3 lec.
Grade Mode: Normal Grading Mode

PHY 543 Quantum Mechanics II **3 Credit hours**
This is the second part of a two-semester introduction to quantum mechanics. Emphasis is on applications of quantum theory including approximation techniques and the study of more realistic quantum systems. This is the second part of a two-semester introduction to quantum mechanics. Emphasis is on applications of quantum theory including approximation techniques and the study of more realistic quantum systems.
Grade Mode: Normal Grading Mode

PHY 544 Advanced Lab **2 Credit hours**
Developments in producing and detecting correlated photon pairs has enabled implementation of undergraduate laboratories demonstrating fundamental quantum mechanical principles. This laboratory also incorporates fundamental solid state and materials science experiments.
Pre-req: PHY 525 (may be taken concurrently) with a minimum grade of D and PHY 542 (may be taken concurrently) with a minimum grade of D.
Concurrent PR: PHY 525 and PHY 542
Grade Mode: Normal Grading Mode

PHY 545 Math Methods of Physics **3 Credit hours**
An introduction to the theory of orthogonal functions, curvilinear coordinate systems, vector and tensor fields and their applications in Physics. Problems are drawn from different areas of physics. 3 lec. An introduction to the theory of orthogonal functions, curv- ilinear coordinate systems, vector and tensor fields and their applications in Physics. Problems are drawn from different areas of physics. 3 lec.
Grade Mode: Normal Grading Mode

PHY 546 MTH Methods of Physics II **3 Credit hours**
A second semester of a full year course on methods of solving problems in physics: calculus of variations, ordinary partial differential equations and special functions with real physics problems.
Pre-req: PHY 545.
Grade Mode: Normal Grading Mode

PHY 547 Mechanics for Teachers **4 Credit hours**
An indepth study of mechanics for education majors specializing in Physics with emphasis on problem solving techniques, demonstrations, experiments and computer applications. (PR: PHY 203, MTH 122 and MTH 140) An indepth study of mechanics for education majors specializing in Physics with emphasis on problem solving techniques, demonstrations, experiments and computer applications. (PR: PHY 203, MTH 122 and MTH 140)
Grade Mode: Normal Grading Mode

PHY 580 Special Topics **2-4 Credit hours**
Grade Mode: Normal Grading Mode

PHY 581 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

PHY 582 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

PHY 583 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

PHY 585 Independent Study **1-4 Credit hours**
Grade Mode: Normal Grading Mode

PHY 586 Independent Study **1-4 Credit hours**
Attributes: No Textbook Required
Grade Mode: Normal Grading Mode

PHY 587 Independent Study **1-4 Credit hours**
Grade Mode: Normal Grading Mode

PHY 588 Independent Study **1-4 Credit hours**
Grade Mode: Normal Grading Mode

PHY 600 Electricity and Magnetism I **4 Credit hours**
A study of electrostatics and associated boundary-value problems, electric multipoles and macroscopic media, dielectrics, magnetostatics, time-varying fields, Maxwell equations and conservation laws, plane electromagnetic waves and wave propagation. A study of electrostatics and associated boundary-value problems, electric multipoles and macroscopic media, dielectrics, magnetostatics, time-varying fields, Maxwell equations and conservation laws, plane electromagnetic waves and wave propagation.
Grade Mode: Normal Grading Mode

PHY 608 Statistical Mechanics **4 Credit hours**
The course introduces thermodynamics and statistical mechanics to graduate students of physics and other science and engineering disciplines as two complimentary approaches to study physical properties of systems in equilibrium. The course introduces thermodynamics and statistical mechanics to graduate students of physics and other science and engineering disciplines as two complimentary approaches to study physical properties of systems in equilibrium.
Grade Mode: Normal Grading Mode

PHY 610 Special and Gen Relativity **3 Credit hours**
General relativity, the classical theory of one of the four fundamental forces, is not a standard course offer. This course of Special and General Relativity intends to fill this gap by introducing the key concepts that lead to a revolution in our understanding of space and time. The students will learn about spacetime curvature, metrics, geodesics, black holes, gravitational waves, and cosmology. General relativity, the classical theory of one of the four fundamental forces, is not a standard course offer. This course of Special and General Relativity intends to fill this gap by introducing the key concepts that lead to a revolution in our understanding of space and time. The students will learn about spacetime curvature, metrics, geodesics, black holes, gravitational waves, and cosmology.
Grade Mode: Normal Grading Mode

PHY 620 Modern Astrophysics I **3 Credit hours**
Modern Astrophysics is firmly grounded in the fundamental principles of physics, and will offer students the opportunity to use the physics they have learned in understanding the nature of the universe.
This course provides a graduate-level introduction to astrophysics, focusing on stellar structure and evolution. Modern Astrophysics is firmly grounded in the fundamental principles of physics, and will offer students the opportunity to use the physics they have learned in understanding the nature of the universe. This course provides a graduate-level introduction to astrophysics, focusing on stellar structure and evolution.
Grade Mode: Normal Grading Mode

PHY 625 Condensed Matter Physics **3 Credit hours**
This course studies complex phenomena that occur in solids and quantum liquids, and exposes the students to some theoretical tools used to describe the basic interactions behind these phenomena. This course studies complex phenomena that occur in solids and quantum liquids, and exposes the students to some theoretical tools used to describe the basic interactions behind these phenomena.
Grade Mode: Normal Grading Mode

PHY 630 Classical Mechanics **4 Credit hours**
Study of variational principes and Lagrange's equations, the two-body central force problem, the kinematics and dynamics of rigid-body motion, Hamilton equations of motion, canonical transformations, Hamilton-Jacobi theory, and small oscillations. Study of variational principes and Lagrange's equations, the two-body central force problem, the kinematics and dynamics of rigid-body motion, Hamilton equations of motion, canonical transformations, Hamilton-Jacobi theory, and small oscillations.
Grade Mode: Normal Grading Mode

PHY 631 Seminar **1 Credit hour**
Grade Mode: Normal Grading Mode

PHY 632 Seminar **1 Credit hour**
Grade Mode: Normal Grading Mode

PHY 640 Fundamentals of Physics **4 Credit hours**
A course in fundamental concepts of physics. Subject content varies. Designed primarily to strengthen conceptual understanding of teachers. A course in fundamental concepts of physics. Subject content varies. Designed primarily to strengthen conceptual understanding of teachers.
Grade Mode: Normal Grading Mode

PHY 642 Adv Quantum Mechanics **4 Credit hours**
This course covers advanced topics of quantum mechanics at the graduate level. Topics include fundamental issues, approximation methods and applications.
Pre-req: PHY 630 (may be taken concurrently) with a minimum grade of D.
Concurrent PR: PHY 630
Grade Mode: Normal Grading Mode

PHY 645 Methods of Math. Physics **4 Credit hours**
This course will review and develop theories of real and complex analysis, group theory, tensors, special functions, differential and integral transforms, emphasizing their application to electrodynamics, quantum statistical mechanics, etc.
Grade Mode: Normal Grading Mode

PHY 661 Special Topics **1-3 Credit hours**
Grade Mode: Normal Grading Mode

PHY 662 Special Topics **1-3 Credit hours**
Grade Mode: Normal Grading Mode

PHY 682 Thesis Research **1-6 Credit hours**
Attributes: Thesis
Grade Mode: Normal Grading Mode

PHY 685 Independent Study **1-4 Credit hours**
Advanced Independent Study in Physics.
Attributes: No Textbook Required
Grade Mode: Normal Grading Mode

PHY 686 Independent Study **1-4 Credit hours**
Advanced Independent Study in Physics.
Grade Mode: Normal Grading Mode

Combined College and Professional Degrees

A student who is granted early admission to a doctoral-level program will be granted a leave of absence during his or her senior year at Marshall University. At the end of the first year of professional school, the student is then eligible to receive a bachelor's degree from Marshall University, provided that at least 90 undergraduate credit hours must have been completed with a grade point average of 2.0, and that all requirements for graduation are met except the completion of a major. An applicant for a bachelor's degree must present certification from the professional school that he or she has successfully completed the first year of coursework and that a sufficient number of credit hours has been completed to total 120 when added to the hours earned at the undergraduate level.

Sustainability, Interdisciplinary Minor

Interdisciplinary Minor in Sustainability

Students from within or outside NRE may desire a minor in Sustainability. This broad tract will bring student's attention to utilization of ideas and practices that ensure ecological systems are maintained in viable condition for the foreseeable future. Students engaged in this study will understand the limitations and current use of resources supporting energy, agriculture, water, and waste management and envision practical strategies for improving resource utilization to achieve a sustainable future. Upon understanding of the concepts within the sustainability framework, students may focus on one of primary areas of sustainability; environmental, natural resources, agricultural, energy, or societal by selecting from relevant courses.

Students pursuing the interdisciplinary minor in Sustainability will take the following courses to develop understanding of the current environmental conditions:

Code	Title	Credit Hours
NRE 120	Discussion in Environ Sci (CT)	3
NRE 320	Nature Enviro Problems	3

In addition to 6 hours of background coursework, students will take 9 hours of interest-specific courses on solutions for obtaining sustainability in diverse fields. This interdisciplinary minor requires that at least 9 hours of 300-400 level courses be taken from departments other than a student's major department.

Code	Title	Credit Hours
Environmental (choose 9 hours)		
NRE 220	Human Dimensions Nat Res (CT)	
GEO 406	Population Geography	
NRE 321	Resol Environ Problems	
NRRM 432	Wilderness/Protected Area Mgmt	
BSC 460	Conservation Biology	
Agricultural (choose 9 hours)		
NRE 321	Resol Environ Problems	
NRE 200	Introduction to Agriculture	
NRE 402	Sustainable Agriculture	
DTS 202	Introductory Foods	
BSC 430	Plant Ecology (note prerequisites)	
Energy (choose 9 hours)		
NRE 212	Energy	
NRE 321	Resol Environ Problems	
GEO 422	Environmental Geography	
MGT 370	Energy Management Principles (note prerequisites)	
MGT 380	Principles of Renewable Energy (note prerequisites)	
Societal (choose 9 hours)		
NRE 220	Human Dimensions Nat Res (CT)	
NRE 321	Resol Environ Problems	
SOC 401	Population & Human Ecology	
SOC 466	Culture and Environment	
Natural Resources (choose 9 hours) [1]		
NRE 220	Human Dimensions Nat Res (CT)	
NRRM 432	Wilderness/Protected Area Mgmt	
NRRM 360	Tourism Planning & Management	
NRRM 362	Ecotourism: Admin and Mgmt	
GEO 406	Population Geography	
SOC 401	Population & Human Ecology	

[1] Natural Resource and Recreation Management majors wishing to obtain a minor in Sustainability may replace NRE 120 and NRE 320 with GEO 222 and ECN 250 to allow them to take 9 hours of coursework external to their major.

Graduate College

In October, 1938, the West Virginia Board of Education authorized Marshall University to conduct graduate instruction leading to the Master of Arts and the Master of Science degrees. Since then, the Graduate College has steadily expanded the scope and depth of its offerings. Post-master's Education Specialist degrees (Ed.S.) are available in adult and technical education, counseling, curriculum and instruction, educational administration, and school psychology. Marshall also offers an Ed.D. in either Leadership Studies or Curriculum and Instruction, a Psy.D. in Clinical Psychology, and a Ph.D. in Biomedical Sciences.

As the variety of these programs would indicate, the Graduate College offers the graduate student an opportunity to acquire research techniques in many fields of knowledge; to participate under the guidance of the graduate faculty in basic research and in the application of the insights gained in such research to the solution of the pressing problems of our times; and to become skilled professionals.

Admission to the Graduate College is based on a baccalaureate degree from a regionally accredited college or university and on the information provided on the Application for Admission form. The applicant must also submit scores from the Graduate Record Examination (GRE), the Miller Analogies Test (MAT), or the Graduate Management Admissions Test (GMAT) as required by the individual program area. Test scores must be sent directly to Graduate Admissions, Marshall University.

On recommendation by the department chair and with the approval of the undergraduate dean and the dean of the Graduate College, Marshall University seniors with superior academic undergraduate records may be permitted to enroll in graduate courses. When combined with the College Level Examination Program (CLEP), in which thirty undergraduate semester credit hours or more can be earned by examination, this provision enables the superior student to earn both a baccalaureate and a master's degree in four years or fewer.

Students who want more information about any of the graduate programs should consult the *Graduate Catalog* or address their inquiries to: Graduate Admissions Office, Marshall University, 100 Angus E. Peyton Drive, South Charleston, WV 25303.

Honors College

Contacts: Dr. Brian A. Hoey, Interim Dean; ; Cara Bailey, Interim Assistant Dean and Coordinator of the Society of Yeager Scholars
Website: http://www.marshall.edu/honors (http://www.marshall.edu/honors/)

https://www.marshall.edu/honors (http://www.marshall.edu/honors/)
honorscollege@marshall.edu

The Honors College allows eligible students in any undergraduate major at Marshall University to add value to their degree by joining the mission of honors education. Honors students pursue their degree in one of the other colleges and make the Honors College another academic home where they receive various forms of support that enhance their experiences at Marshall. We offer students in the Honors College a multitude of benefits, including things like priority registration. That said, we believe that honors education must be defined by more than privileges. It must support inclusive excellence and expect honorable actions that contribute to a greater good.

Mission of the College

The Honors College at Marshall University provides an environment for innovative teaching and learning within an interdisciplinary curriculum motivated by creative, critical inquiry and respect for a multiplicity of thoughts, experiences, and identities. The Honors College collaborates with university and public partners to foster inclusive academic excellence in a diverse and supportive community of scholars dedicated to becoming socially conscious, responsible leaders and lifelong learners engaged in the acquisition and application of knowledge for a greater good.

To this end, students participating in the Honors College will:

- Make connections while adapting and applying skills and learning among varied disciplines, domains of thinking, experiences, and situations.
- Outline divergent solutions to a problem, develop and explore potentially controversial proposals, and synthesize ideas or expertise to generate original plans and approaches.
- Evaluate the effectiveness of their own work, reflect on strengths and weakness of their knowledge and skills in defined areas, and devise ways to make improvements.
- Produce cohesive oral, written, and visual communications capable of connecting effectively with specific audiences.
- Appraise how cultural beliefs and practices affect inter-group communication, how specific approaches to global issues may affect communities differently, and how varying economic, religious, social, or geographical interests can result in conflict.
- Demonstrate principles of ethical citizenship and socially responsible leadership through collaborative partnerships.
- Evaluate how academic theories and public policy inform one another to support civic well-being.

Programs

University Honors Curriculum

1. Entering first-year students register for FYS 100H First Year Seminar-Honors.
2. All second-year students will take HON 200 Second Year Seminar, in leadership, ethics and civic engagement.
3. Each semester several **interdisciplinary seminars** are taught as sections of HON 480 Special Topics. Seminars enable students to study in depth a special topic outside and beyond the regular curriculum. Honors seminar credits may fulfill department major or college general education requirements with the approval of a student's primary college dean. Course offerings vary each semester. Seminar titles appear in the official *Schedule of Courses* published each semester by the Registrar's Office under the HON prefix. HON 480 seminars require permission for enrollment, which can be obtained during an Honors advising appointment in the college prior to the priority registration period.
4. Individual departments offer **honors sections of regular courses** that can be used to earn honors credits while also fulfilling many different general education requirements. These courses are identified in this catalog and the semester course schedule by an H following the course number.
5. **Experiential Learning**
   The Honors College encourages students to consider studying abroad as undergraduates. The college will waive up to 6 of the required general Honors credits for international engagement experiences for which the student receives academic credit through Marshall. Students must request the waiver by submitting the Study Abroad Substitution form available on the Honors College website.
6. **The Honors Option** allows an honors student enrolled in a non-honors course to receive honors credit. The honors student must develop an Honors Contract Proposal with the course instructor who acts as a faculty mentor, no later than the end of the second week of the semester in which the course is offered, to perform work of a different quality (not merely quantity) than others in the class. Assignments for the H-option should involve higher-level cognitive processes and products, service, and extra engagement with the faculty mentor. H-option instructions and forms are available on the Honors College website.

   The Honors College provides faculty-mentored as well as student-organized and led courses that are based in a fundamental need for team-based work and that contribute to the welfare of particular communities. Participation on the staff of the Honors student newsletter (HON 484 Honors College Newsletter) or on the Steering Committee of the Honors College Student Association (HON 488 Student Assoc Steering Comm) earns honors credit as collaborative learning experiences.
7. For incoming students, general Honors credit may be waived by college credit with a grade of *A* or *B*, AP credit, or IB credit earned in high school according to the following scale:

   - 15 – 30 credits: 3 credit honors waiver
   - 31+ credits: 6 credit honors waiver

   To receive Honors credit, students must petition the dean by the end of their first semester using the form found on the Honors College website.

Additional opportunities for earning honors credits can be found on the college website.

Yeager Scholars Program

The Yeager Scholars Program is named for United States Air Force Brigadier General Charles E. "Chuck" Yeager, a West Virginia native and the first person to break the sound barrier in his historic 1947 flight of the Bell-X-1 aircraft. The Yeager Scholars Program offers an enhanced

educational experience, providing the scholars with opportunities to expand their intellectual abilities, to develop leadership potential, to become effective communicators, and to gain the skills and knowledge necessary for successful careers. Through the generosity of many donors, especially the Society of Yeager Scholars, students in the Yeager program receive tuition, fees, room and board, a textbook allowance, a personal computer, a stipend, and education-related study abroad expenses. For additional information, see https://www.marshall.edu/yeager (https://www.marshall.edu/yeager/).

Admission Requirements

Incoming First-Year Students

Incoming first-year students who have been accepted to Marshall University have two pathways to admission in the Honors College.

Admission by Invitation

Incoming first-year students who have been accepted to Marshall University and have a composite ACT score at least 26 (1230 SAT composite or higher) and a high school GPA of at least 3.5 are invited to join the Honors College. There is no separate application for admission to the college via this pathway to admission. The stated test scores and GPA must be achieved and reported to the university before the college's stated deadline, typically May 1.

Admission by Holistic Review

Students admitted to Marshall who do not meet the minimum test score that would lead an automatic invitation to be admitted to the Honors College but do have at least a 3.5 high school GPA may still apply for admission to the Honors College. Students may request and be provided with a separate application for admission to the Honors College. Requests for admission in the Fall semester will be reviewed on a rolling basis through April 15 each year.

Current, Transfer and Late-Admitted (Spring Semester) Students

All requests for admission (Admission by Invitation pathway) or applications for admission (Admission by Holistic Review pathway) must be made before the end of the 7th week of the semester.

Fall Semester
Admission by Invitation

Current students admitted to Marshall to begin their degree requirements in the Fall semester who are NOT classified as transfer students (students who began their baccalaureate degree elsewhere before coming to Marshall) and who have not yet earned a GPA at Marshall but have at least a 3.5 high school GPA and at least a 26 ACT or 1230 SAT composite score, can request to be considered for a late "Admission by Invitation," which does not require an application. This pathway to admission is only available in the Fall semester for current students.

Admission by Holistic Review

Current students (continuing at Marshall from an earlier semester) and qualified transfer students (students who began their baccalaureate degree elsewhere before coming to Marshall) with at least a 3.5 college GPA (earned at Marshall for current students) in at least 12 completed credit hours, who will have no more than 30 earned credit-hours at the end of the Fall semester, may petition for admission by requesting to submit an application to the college. At the time of application, both current and transfer students may request a waiver of up to 6 hours of general Honors credits toward completion of the required Honors curriculum.

Spring Semester
Admission by Invitation for Late-Admitted, Spring Semester Students

Students admitted to Marshall to begin their degree requirements in the Spring semester who are NOT classified as transfer students (students who began their baccalaureate degree elsewhere before coming to Marshall) and who have not yet earned a GPA at Marshall but have at least a 3.5 high school GPA and at least a 26 ACT or 1230 SAT composite score, can request to be considered for late "Admission by Invitation," which does not require an application. This pathway to admission is only available in the Spring semester for late-admitted students.

Admission by Holistic Review

Current students (continuing at Marshall from an earlier semester), incoming students admitted late (to start in Spring semester), and qualified transfer students (students who began their baccalaureate degree elsewhere before coming to Marshall) with at least a 3.5 college GPA (earned at Marshall for current students) in at least 12 completed credit hours, who will have no more than 30 earned credit-hours at the end of the Spring semester, may petition for admission by requesting to submit an application to the college. At the time of application, both current and transfer students may request a waiver of up to 6 hours of general Honors credits toward completion of the required Honors curriculum.

Academic Policies

To remain in good standing with the college, students must maintain an overall GPA of 3.30. Additional good standing and satisfactory progress policies are in the college policy handbook on the Honors College website.

Graduation in Honors

Students who wish to graduate from the Honors College must complete 24 credits of honors experiences. The 24 credits must include:

- FYS 100H First Year Seminar-Honors, 3 credits
- HON 200 Second Year Seminar, 3 credits
- At least two interdisciplinary HON 480 Special Topics seminars, 3 credits each
- An accepted combination of honors-designated departmental courses, and other approved honors experiences.

Students must earn a *C* or better in a course to receive honors credit. The official transcript of students successfully fulfilling the requirements of the college curriculum will state that the student has graduated with University Honors through the Honors College.

Faculty

Dr. Brian A. Hoey, Interim Dean

Division of Aviation

Contact: Bill Noe (noe@marshall.edu), Chief Aviation Officer

The Division of Aviation comprises the Bill Noe Flight School, which offers the B.S. in Commercial Pilot: Fixed Wing, and the forthcoming

Aviation Maintenance Technology cooperative program with MountWest Community and Technical College.

Bill Noe Flight School

The Marshall University President's vision for a professional flight training program transitioned from conceptual drawings to a ground-breaking ceremony in August 2020, commencing establishment of the Bill Noe Flight School. We take great pride in providing world-class flight training to certify the future generation of professional pilots. Our program combines technically advanced aircraft, state-of-the-art simulators, and industry experienced professional staff to ensure student success as future professional pilots.

Mission

The mission of the Bill Noe Flight School is to provide exceptional training to ensure the actualization of the next generation commercial pilot in meeting the growing demands in the aviation industry. The Commercial Pilot degree prepares graduates to become Federal Aviation Administration (FAA) certified fixed-wing commercial and instructor pilots.

- Aviation Maintenance Technology, A.A.S. (p. 689)
- Commercial Pilot - Fixed Wing, B.S. (p. 687)

AVSC 102 Flight School Orientation **3 Credit hours**
An orientation course for students enrolled in the flight school. Topics to include pilot training regulations and procedures, safety and security, federal aviation organizations, and career opportunities.
Grade Mode: Normal Grading Mode

AVSC 105 Transition Lab **1 Credit hour**
Students admitted to the program who hold FAA certifications will learn the operation of Marshall's aircraft at a level commensurate with his or her FAA certification.
Grade Mode: Credit/No Credit Grade Only

AVSC 200 Private Pilot Ground School **4 Credit hours**
An introductory overview of aviation fundamentals as required by the Federal Aviation Administration regulations for students pursuing a Private Pilot certificate.
Pre-req: AVSC 205 (may be taken concurrently) with a minimum grade of D.
Concurrent PR: AVSC 205
Grade Mode: Normal Grading Mode

AVSC 205 Solo Flight Lab **1 Credit hour**
A course designed to prepare students for pilot's first solo flight.
Pre-req: AVSC 200 (may be taken concurrently) with a minimum grade of D.
Concurrent PR: AVSC 200
Grade Mode: Normal Grading Mode

AVSC 210 Private Pilot Cert ASEL Lab **2 Credit hours**
A course designed to prepare students to pass the Federal Aviation Administration Private Pilot Practical Exam: ASEL
Pre-req: AVSC 200 with a minimum grade of D and AVSC 205 with a minimum grade of D.
Grade Mode: Normal Grading Mode

AVSC 215 Instrument Ground School **3 Credit hours**
A course designed to teach pilots to fly an airplane using only instruments as required by Federal Aviation Administration regulations for the Instrument Flight Rules rating.
Pre-req: AVSC 205 (may be taken concurrently) with a minimum grade of D or AVSC 210 (may be taken concurrently) with a minimum grade of D.
Concurrent PR: AVSC 205 or AVSC 210
Grade Mode: Normal Grading Mode

AVSC 220 Instrument Certification Lab **3 Credit hours**
A course designed to prepare students to pass the Federal Aviation Administration Instrument Practical Exam.
Pre-req: AVSC 210 with a minimum grade of D and AVSC 215 with a minimum grade of D.
Grade Mode: Normal Grading Mode

AVSC 221 Flight Management Systems **3 Credit hours**
This course familiarizes students with popular flight management systems in use in aircraft today and introduces flight management systems that may still be in various stages of development.
Grade Mode: Normal Grading Mode

AVSC 231 Aviation Law and Regulations **3 Credit hours**
This course familiarizes students with the Federal Aviation Regulation, certification standards, air transportation operational oversight and law governing commercial aviation.
Grade Mode: Normal Grading Mode

AVSC 241 AV Safety and Human Factors **3 Credit hours**
This course familiarizes students with the Federal Aviation Regulations, aircraft certification, all weather operations, and the impacts of stress in aviation.
Grade Mode: Normal Grading Mode

AVSC 250 Commercial Phase II AMEL Lab **3 Credit hours**
A course designed to prepare students to pass the Federal Aviation Administration Commercial Pilot Practical Exam for multi-engine airplane.
Pre-req: AVSC 235 (may be taken concurrently) with a minimum grade of D and (AVSC 225 with a minimum grade of D or AVSC 230 with a minimum grade of D).
Concurrent PR: AVSC 235
Grade Mode: Normal Grading Mode

AVSC 255 Initial CFI AMEL Lab **3 Credit hours**
A course designed to train students to become Federal Aviation Administration certified flight instructors required of a Private and Commercial Pilot.
Pre-req: AVSC 235 with a minimum grade of D and (AVSC 240 with a minimum grade of D or AVSC 275 with a minimum grade of D).
Grade Mode: Normal Grading Mode

AVSC 260 ASEL Private Add-On Lab **1 Credit hour**
Designed to prepare pilots to complete the Federal Aviation Administration's ASEL practical exam.
Pre-req: AVSC 204 with a minimum grade of D.
Grade Mode: Normal Grading Mode

AVSC 265 AMEL Private Add-On Lab **1 Credit hour**
Designed to prepare pilots to complete the Federal Aviation Administration's AMEL private practical exam.
Pre-req: AVSC 204 with a minimum grade of D or AVSC 260 with a minimum grade of D.
Grade Mode: Normal Grading Mode

AVSC 270 Commercial ASEL Add-On Lab **1 Credit hour**
Designed to prepare pilots to complete the Federal Aviation Administration's Commercial Pilot ASEL Practical Add-On Exam.
Pre-req: AVSC 220 with a minimum grade of D or AVSC 250 with a minimum grade of D.
Grade Mode: Normal Grading Mode

AVSC 290 CFI ASEL Add On Lab **1 Credit hour**
Designed to prepare pilots to complete the Federal Aviation Administration's Certified Flight Instructor Add-On Practical Exam.
Pre-req: AVSC 255 with a minimum grade of D.
Grade Mode: Normal Grading Mode

AVSC 295 CFI AMEL Add-On Lab **1 Credit hour**
Designed to prepare pilots to complete the Federal Aviation Administrations AMEL Certified Flight Instructor Add-On Practical Exam.
Pre-req: AVSC 245 with a minimum grade of D.
Grade Mode: Normal Grading Mode

AVSC 300 Tailwheel Transition Lab **1 Credit hour**
Designed to prepare pilots to earn a tail-wheel endorsement from the Federal Aviation Administration.
Pre-req: AVSC 210 with a minimum grade of D or AVSC 260 with a minimum grade of D.
Grade Mode: Normal Grading Mode

AVSC 305 CFII Lab **1 Credit hour**
Designed to prepare pilots to pass the FAA Certified Flight Instructor Instrument Practical Exam.
Pre-req: AVSC 245 with a minimum grade of D or AVSC 280 with a minimum grade of D.
Grade Mode: Normal Grading Mode

AVSC 310 Aircraft Sys and Powerplants **3 Credit hours**
This course familiarizes students with the Federal Aviation Regulations relating to aircraft certification of systems and the various powerplants for fixed wing aircraft.
Grade Mode: Normal Grading Mode

AVSC 315 Airport Operations and Mgmt **3 Credit hours**
This course familiarizes students with the Federal Aviation Regulations relating to certification of airport systems and examines the policies and procedures for the Airport Improvement Plan (AIP).
Grade Mode: Normal Grading Mode

AVSC 320 Flight Phys and Human Factors **3 Credit hours**
This course familiarizes students with the Federal Aviation Regulations relating to flight physiology, oxygen systems, and human factors impacting pilot flight operations.
Grade Mode: Normal Grading Mode

AVSC 325 Ntnl Airspace Sys and NextGen **3 Credit hours**
An overview of the US National Airspace System and an in-depth analysis of the methods and procedures used in controlling air traffic.
Grade Mode: Normal Grading Mode

AVSC 329 Commerical Ground School **3 Credit hours**
A study of commercial flight fundamentals as required by Federal Aviation Administration regulations for students pursuing a Commercial Pilot certificate.
Pre-req: AVSC 210 with a minimum grade of D and AVSC 215 with a minimum grade of D.
Grade Mode: Normal Grading Mode

AVSC 330 Commercial Phase I Lab **3 Credit hours**
A continued review of topics required for flying an airplane in VFR & IFR environments during day and night cross-country flights, and development of Pilot and Command decision-making skills.
Pre-req: AVSC 220 with a minimum grade of D and AVSC 226 with a minimum grade of D.
Grade Mode: Normal Grading Mode

AVSC 335 CFI Ground School **3 Credit hours**
Review the instruction fundamentals required by the FAA for pilots pursuing a Certified Flight Instructor rating.
Pre-req: AVSC 325 with a minimum grade of D.
Grade Mode: Normal Grading Mode

AVSC 340 Commercial Phase II ASEL Lab **3 Credit hours**
A course designed to prepare students to pass the Federal Aviation Administration ASEL Commercial Practical Exam.
Pre-req: AVSC 335 with a minimum grade of D.
Grade Mode: Normal Grading Mode

AVSC 345 Initial CFI ASEL Lab **3 Credit hours**
A course designed to train to become Federal Aviation Administration certified flight instructors.
Pre-req: AVSC 340 with a minimum grade of D.
Grade Mode: Normal Grading Mode

AVSC 355 Aviation Weather **3 Credit hours**
A study of atmospheric conditions on aeronautic operations. Topics include atmospheric properties, aviation hazards including thunderstorms, wind shear, turbulence, icing, and weather flight resources.
Pre-req: GEO 230 with a minimum grade of D.
Grade Mode: Normal Grading Mode

AVSC 375 Commercial AMEL Add-On Lab **1 Credit hour**
Designed to prepare pilots to complete the Federal Aviation Administration's Instrument Practical exam and Commercial Pilot Add-On Practical exam for multi-engine airplane.
Pre-req: AVSC 210 with a minimum grade of D or AVSC 260 with a minimum grade of D.
Grade Mode: Normal Grading Mode

AVSC 405 Business Aviation **3 Credit hours**
This capstone is a study of business aviation operations, management, and finance to include corporate, fractional, charter, Fixed Base Operator (FBO), and various aviation business models.
Attributes: Capstone Course
Grade Mode: Normal Grading Mode

AVSC 410 Air Transportation Operations **3 Credit hours**
An overview of the airline industry and an in-depth analysis of key management functions within an airline.
Grade Mode: Normal Grading Mode

AVSC 450 Crew Resource Management **3 Credit hours**
Within this capstone course, students will examine the principles of proper crew collaboration that reduce the risk of accidents caused by human behavior.
Pre-req: AVSC 200 with a minimum grade of D or AVSC 210 with a minimum grade of D or AVSC 215 with a minimum grade of D or AVSC 220 with a minimum grade of D or AVSC 225 with a minimum grade of D or AVSC 230 with a minimum grade of D or AVSC 235 with a minimum grade of D or AVSC 240 with a minimum grade of D or AVSC 245 with a minimum grade of D or AVSC 250 with a minimum grade of D or AVSC 255 with a minimum grade of D or AVSC 260 with a minimum grade of D or AVSC 265 with a minimum grade of D or AVSC 270 with a minimum grade of D or AVSC 275 with a minimum grade of D or AVSC 290 with a minimum grade of D or AVSC 295 with a minimum grade of D.
Grade Mode: Normal Grading Mode

AVSC 495 Internship in Aviation Ops **3 Credit hours**
Student will participate in an internship as coordinated with their assigned advisor. The internship allows students to apply those flight instruction and classroom instruction skillsets appropriate to the respective internship.
Grade Mode: Normal Grading Mode

Commercial Pilot - Fixed Wing, B.S.

Overview

The program objectives for the B. S. in Commercial Pilot - Fixed Wing, are to:

1. Provide a high-quality flight training program that follows requirements outlined by the Federal Aviation Administration specified in 14 CFR Part 141.
2. Provide future fixed-wing pilots a general education that will allow them to work for national or international aeronautics corporations.
3. Provide students with the theoretical information that will allow them to understand the operation of aircraft and the technical skills to operate aircraft using advanced aeronautics technology.
4. Prepare students to be effective pilots and flight instructors.

Student learning outcomes for the B.S. in Commercial Pilot - Fixed Wing:

1. Students will complete an FAA-approved course of study and demonstrate that they can operate technically advanced aircraft under a range of flight conditions.
2. Students will demonstrate the ability to communicate effectively and work collaboratively in diverse and demanding environments.
3. Students will demonstrate the ability to engage in continual professional development related to skills as pilots and professionals working in commercial aviation settings.
4. Students will demonstrate the application of skills and perspectives.

Note: This program is not approved for the usage of veterans' education benefits.

All Flight Students

For initial consideration, all applicants must meet Marshall University's general freshman or transfer admission requirements. Admission to the Bachelor of Science program in Commercial Pilot - Fixed Wing will be selective each year, depending on both the number of applications received and the capacity to enroll new students. Not all applicants who qualify for general admission to the university will be admissible to this program.

As required by FAA regulations, and determined by the Bill Noe Flight School, students must speak, read, write and understand English. Prior to commencing flight training, non-U.S. citizens must complete all Transportation Security Administration (TSA) background checks and appropriate approvals.

Marshall requires that all flight students have at least a Second Class Medical when starting the flight program. However, we recommend students get a First Class Medical prior to flight training to make sure they do not have any medical conditions that could disqualify them from flying with airlines. Medicals must be done by a Federal Aviation Administration (FAA) Aviation Medical Examiner (AME). Prospective students will find AMEs by location using the resource at https://designee.faa.gov/#/designeeLocator.

Upon admission to the program and before beginning AVSC coursework, students who do not have at least a Private Pilot certification must apply for and receive a Student Pilot certificate. See https://www.faa.gov/pilots/become/student_cert/ for details. Contact the Bill Noe Flight School if you have questions.

Transfer Student / Intercollege Transfer Policy

Transfer students must have a minimum cumulative GPA of 2.25 or Chief Instructor approval.

Students who hold one or more FAA pilot certificates will not need to repeat required courses for these certifications but must discuss their specific situations with the Chief Instructor before enrolling.

Students allowed to enroll with previous FAA pilot certifications, however, must complete AVSC 105 Transition Lab, a course designed to train students to operate the Cirrus SR20. Successful completion requires students to pass the knowledge and practical test requirements of the FAA certification standards at a level commensurate with the pilot certification held while operating the Cirrus SR20 aircraft. Students with previous FAA pilot certifications must successfully complete AVSC 105 before proceeding with further flight courses.
Transfer students who completed college-level courses from a regionally accredited institution of higher education may receive credit for those courses. Please review the Admissions section in the Undergraduate Catalog for more information regarding the university's transfer policies.

Progression Requirements

Flight students are expected to complete each flight course in one semester. However, with permission, students experiencing extensive uncontrollable situations, such as weather, may complete the course the following semester with permission. Any student failing to complete the course requirements in that following semester may be dismissed from the program due to lack of progress. Students must

maintain a minimum of a *C* or better in all courses required for the major. AVSC ground schools (AVSC 200, AVSC 215, and AVSC 329) also require an 80% minimum score for all exams.

Graduation/ Other Requirements

The Commercial Pilot - Fixed Wing, B.S. degree requires a minimum of 120 hours for graduation.

Students planning to apply for student instructor positions at the Bill Noe Flight School are required to take AVSC 305 CFII Lab, AVSC 335 Course AVSC 335 Not Found, AVSC 345 Course AVSC 345 Not Found, and AVSC 375 Course AVSC 375 Not Found. See advisor and Chief Instructor.

Code	Title	Credit Hours
Core Curriculum		
Core I: Critical Thinking		
FYS 100	First Yr Sem Critical Thinking	3
GEO 230	Intro to Meteorology (CT)	4
Critical Thinking Course		3
Core II		
ENG 101	Beginning Composition	3
ENG 201	Advanced Composition	3
Core II Communications		
Core II Mathematics		
GEO 230	Intro to Meteorology (CT)	4
CMM 213	Fund Interpersonal Com	3
Core II Humanities (WI section recommended)		
Core II Fine Arts		
Additional University Requirements		
Multicultural/International		
Writing Intensive (Core II Humanities recommended)		
Writing Intensive		
AVSC 405	Business Aviation	3
Major Specific Requirements		
General		
ACC 215	Accounting Principles (CT)	3
CMM 213	Fund Interpersonal Com	3
GEO 230	Intro to Meteorology (CT)	4
MGT 320	Principles of Management	3
MGT 422	Organizational Behavior	3
Aviation Core Courses		
AVSC 102	Flight School Orientation	3
AVSC 221	Flight Management Systems	3
AVSC 231	Aviation Law and Regulations	3
AVSC 241	AV Safety and Human Factors	3
AVSC 310	Aircraft Sys and Powerplants	3
AVSC 315	Airport Operations and Mgmt	3
AVSC 320	Flight Phys and Human Factors	3
AVSC 325	Ntnl Airspace Sys and NextGen	3
AVSC 355	Aviation Weather	3
AVSC 405	Business Aviation	3
AVSC 410	Air Transportation Operations	3
AVSC 450	Crew Resource Management	3
Aviation Flight Courses		
AVSC 200	Private Pilot Ground School	4
AVSC 215	Instrument Ground School	3
AVSC 329	Commerical Ground School	3
AVSC 205	Solo Flight Lab	1
AVSC 210	Private Pilot Cert ASEL Lab	2
AVSC 220	Instrument Certification Lab	3
AVSC 330	Commercial Phase I Lab	3
AVSC 340	Commercial Phase II ASEL Lab	3
Choose one 8-hour track		
Track A		
Students planning to apply for student instructor positions at the Bill Noe Flight School are required to take AVSC 305, AVSC 335, AVSC 345, and AVSC 375. See advisor and Chief Instructor.		
AVSC 305	CFII Lab	
AVSC 335	CFI Ground School	
AVSC 345	Initial CFI ASEL Lab	
AVSC 375	Commercial AMEL Add-On Lab	
Track B		
Students must meet with the Chief Instructor to discuss career opportunities before selecting Track B. Students not planning to apply for student instructor positions at the Bill Noe Flight School may enroll in 300/400-Level electives. Must see advisor and Chief Instructor before enrolling in electives.		
300/400 Level Electives		

- The purpose of this Four Year Plan is to illustrate how your general education requirements, your program requirements, and any recommended elective or minor courses fit within a 4-year time frame. It also takes into account the order of pre-requisites. It is designed primarily as a tool to assist you in timely graduation. If you have transferred from another institution or another college within Marshall University, please see your advisor about how your coursework may be applied to degree requirements.
- A minimum of 120 credit hours are required for the baccalaureate degree, including a minimum of 40 credit hours at the 300/400 level.
- Six hours of Writing Intensive (WI) credits are required for the degree. Students are encouraged to select WI sections of courses when available within the plan of study.
- Students planning to apply for student instructor positions at the Bill Noe Flight School are required to take AVSC 305*, AVSC 335*, AVSC 345*, and AVSC 375*. Other students may choose to pursue a minor or enroll in 300/400-level electives. Students must see advisor and Chief Instructor to discuss minor options and/or before enrolling in electives.

The Core Curriculum is designed to foster critical thinking skills and introduce students to basic domains of thinking that transcend disciplines. The Core applies to all majors. Information on specific classes in the Core can be found at https://www.marshall.edu/gened/.

Course	Title	Credit Hours
First Year		
First Semester		
AVSC 102	Flight School Orientation	3
AVSC 200	Private Pilot Ground School	4
AVSC 205	Solo Flight Lab	1
AVSC 210	Private Pilot Cert ASEL Lab	2
ENG 101	Beginning Composition	3
UNI 100	Freshman First Class	1
FYS 100	First Yr Sem Critical Thinking	3
	Credit Hours	**17**
Second Semester		
AVSC 215	Instrument Ground School	3
AVSC 220	Instrument Certification Lab	3
AVSC 221	Flight Management Systems	3
GEO 230	Intro to Meteorology (CT)	4
Core II Mathematics		3
MTH 121: Concepts and Applications (CT) recommended		
	Credit Hours	**16**
Second Year		
First Semester		
AVSC 231	Aviation Law and Regulations	3
AVSC 329	Commerical Ground School	3
AVSC 330	Commercial Phase I Lab	3
CMM 213	Fund Interpersonal Com	3
ENG 201	Advanced Composition	3
	Credit Hours	**15**
Second Semester		
AVSC 241	AV Safety and Human Factors	3
AVSC 340	Commercial Phase II ASEL Lab	3
AVSC 355	Aviation Weather	3
ACC 215	Accounting Principles (CT)	3
Core II Communications		3
CMM 207: Business and Professional Communication recommended		
	Credit Hours	**15**
Third Year		
First Semester		
AVSC 310	Aircraft Sys and Powerplants	3
AVSC 315	Airport Operations and Mgmt	3
AVSC 335	CFI Ground School (or Minor or 300/400 Level Elective)	3
AVSC 375	Commercial AMEL Add-On Lab ((or Minor or 300/400 Level Elective))	1
Critical Thinking and Writing Intensive		3
PSC 104: American National Government and Politics (CT), Writing Intensive section recommended		
Free Elective		3
ECN 200: Survey of Economics recommended		
	Credit Hours	**16**
Second Semester		
AVSC 320	Flight Phys and Human Factors ((or Minor or 300/400 Level Elective))	3
AVSC 325	Ntnl Airspace Sys and NextGen	3
AVSC 345	Initial CFI ASEL Lab ((or Minor or 300/400 Level Elective))	3
MGT 320	Principles of Management	3
Core II Humanities		3
Choose a Writing Intensive section		
	Credit Hours	**15**
Fourth Year		
First Semester		
AVSC 305	CFII Lab ((or Minor or 300/400 Level Elective))	1
AVSC 405	Business Aviation	3
AVSC 410	Air Transportation Operations	3
Multicultural/International		3
CMM: 322 Intercultural Communication (MC) recommended		
MKT 340	MKT Concepts and Applications	3
	Credit Hours	**13**
Second Semester		
AVSC 450	Crew Resource Management	3
Free Elective		1
AVSC 495: Internship in Aviation Operations (3 hrs.) or other elective (1 or more hrs.)		
MGT 422	Organizational Behavior	3
Core II Fine Arts		3
Free Elective		3
CMM 319: Superior-Subordinate Communications recommended, or other elective		
	Credit Hours	**13**
	Total Credit Hours	**120**

Aviation Maintenance Technology, A.A.S.

The Aviation Maintenance Technology degree program provides training in aircraft maintenance technology. Students will learn to inspect, maintain, and repair aircraft systems. In this program, students will learn to identify problems and follow the manufacturer's guidelines and industry best practices for maintenance and repair using approved maintenance materials.

Students completing the program are qualified to take the Federal Aviation Administration (FAA) Part 147 tests. These tests include the three written tests required by the FAA and the subsequent Oral and Practical exam that will qualify graduates for an FAA Airframe and Power Plant (A & P) certificate. Once earned, the certificate does not require renewal.

This is a joint degree program with Mountwest Community & Technical College.

Student Learning Outcomes

Upon successful completion of the Aviation Maintenance Technology degree, graduates will be able to:

- Demonstrate the ability to research, troubleshoot, and repair aircraft and aircraft components,
- Demonstrate the ability to correctly read, understand, and apply the Federal Aviation Administration (FAA) regulations and other FAA documentation,
- Complete a series of FAA written national certification exams, and
- Complete an end of program FAA oral and practical exam administered by an FAA Designated Mechanic Examiner (D.M.E.) for national certification.

Code	Title	Credit Hours
AMT 101	Beginning Aviation Maintenance	3
AMT 102	Regulations & Publications	3
AMT 103	Technical Skills & Practices	3
AMT 105	Aviation Utility Systems	3
AMT 109	Aviation Electronics	3
AMT 110	Aviation Power Systems	3
AMT 201	Reciprocating Engines	3
AMT 202	Sheet Metal Structures	3
AMT 203	Reciprocating Engine Maint	3
AMT 204	Propeller & Control Systems	3
AMT 205	Turbine Engines	3
AMT 206	Fluid Power and Landing Gear	3
AMT 207	Turbine Engine Maintenance	3
AMT 208	Cabin Atmosphere Systems	3
AMT 209	Airframe Inspection and Fl Con	3
AMT 210	Nonmetallic Structures	3
AMT 211	Aircraft Information Systems	3
Courses to be completed at Mountwest Community & Technical College. Students earning the A.A.S. degree from Marshall University will receive course credit for an equivalent Marshall University course.		
AMT 215	Certification Test Preparation I	1
AMT 216	Certification Test Preparation II	1
AMT 217	Certification Test Preparation III	1
MAT 135	Technical Mathematics	3
MG 102	Introduction to Entrepreneurship	3
ENL 231	Business and Technical Writing	3
IT 101	Fundamentals of Computers	3
PSYC 200	General Psychology OR SOCI 110, Introductory Sociology	3
Total Credit Hours		**69**

Course	Title	Credit Hours
First Year		
First Semester		
AMT 101	Beginning Aviation Maintenance	3
AMT 102	Regulations & Publications	3
AMT 103	Technical Skills & Practices	3
AMT 109	Aviation Electronics	3
AMT 215	Certification Test Preparation I (MCTC)	1
MAT 135	Technical Mathematics (MCTC)	3
	Credit Hours	**16**
Second Semester		
AMT 105	Aviation Utility Systems	3
AMT 110	Aviation Power Systems	3
AMT 206	Fluid Power and Landing Gear	3
AMT 209	Airframe Inspection and Fl Con	3
IT 101	Fundamentals of Computers (MCTC)	3
	Credit Hours	**15**
Second Year		
Summer		
AMT 202	Sheet Metal Structures	3
AMT 210	Nonmetallic Structures	3
AMT 211	Aircraft Information Systems	3
MG 102	Introduction to Entrepreneurship (MCTC)	3
	Credit Hours	**12**
First Semester		
AMT 201	Reciprocating Engines	3
AMT 203	Reciprocating Engine Maint	3
AMT 208	Cabin Atmosphere Systems	3
AMT 216	Certification Test Preparation II (MCTC)	1
PSYC 200	General Psychology (MCTC) or SOCI 201, Fundamentals of Sociology (MCTC)	3
	Credit Hours	**13**
Second Semester		
AMT 204	Propeller & Control Systems	3
AMT 205	Turbine Engines	3
AMT 207	Turbine Engine Maintenance	3
AMT 217	Certification Test Preparation III (MCTC)	1
PSYC 200	General Psychology (MCTC) or SOCI 201, Fundamentals of Sociology (MCTC)	3
	Credit Hours	**13**
	Total Credit Hours	**69**

Regents, B.A. (RBA)

Contacts: Andrew Gooding, Director
Location: Smith Hall 223
Telephone: 304-696-6400

RBA@marshall.edu

The Regents Bachelor of Arts degree program (RBA) is a nontraditional program designed for the adult student. It has several differences from other baccalaureate degree programs. While the program provides the RBA student with a sound general educational foundation, there are no required major courses. Instead, with the assistance of an advisor, a student creates the course plan that best fits his or her individual needs. Students in the program have the opportunity to request College Equivalent Credits (CEC's) for documented course-level learning resulting from life and work experiences. Examples of CEC credit may include military credits, standard awards for certain licenses,

certifications and corporate training, CLEP and DSST examinations, and portfolio petitions for credit.

All failing grades received four years or more before admission to the program may be forgiven and disregarded in the calculation of the GPA required for graduation. (*Note:* If failing grades are forgiven the student will not be eligible for university-level honors. Academic forgiveness may only be done once and it only pertains to graduating from the RBA program, not to admission to other programs.)

General Education Requirements

36 semester hours (including applicable CEC general education hours) distributed among the following categories:

- Communications – 6 semester hours
- Natural or physical sciences – 3 semester hours
- Mathematics/Computers – 3 semester hours
- Social Sciences – 6 semester hours
- Humanities – 6 semester hours
- Additional approved 3 credit hours from natural or physical sciences or mathematics or computers
- Additional approved credit hours from any of the above categories – 9 semester hours

While RBA students do not declare a major, they may earn a minor in any academic program offered at Marshall by following the minor requirements of that program.

The RBA staff assists students in all aspects of their college needs: admission, program design, course selection, enrollment, assessment for CEC's, and many other factors.

Areas of Emphasis: Marshall University Regents Bachelor of Arts

An Area of Emphasis gives RBA students the opportunity to show a focus as part of the RBA degree. Areas of Emphasis are not required for the degree and are not all available online. An RBA area of emphasis, by state statute, requires a minimum of 15 hours of 300-400 level courses with a *C* or higher for each course. Substitutions are only allowed with the appropriate department's written permission.The most current list of Areas of Emphasis is found on the RBA website https://www.marshall.edu/rba/ or by contacting the RBA office. CEC's may not be used in completing an Area of Emphasis.

Admission

- The student must meet all general Marshall University admission requirements
- The student **must** be at least 4 years out of high school. For those students who passed the GED, admission must be at least 4 years after their class graduated from high school. No person out of high school fewer than 4 years will be admitted.

Students who have already completed a bachelor's degree from an accredited institution of higher learning may not pursue the RBA degree.

The RBA degree by state statute is a degree completion program and students may not double major in the RBA or use it as a subsequent degree.

Graduation Requirements

- Total credit hour requirement: 120 credit hours, including any CEC's
- General education hours: 36
- Upper division hours (300-400 level): 30
- Grade Point Average at Marshall and overall: 2.00
- Residency: 24 graded semester credit hours earned at any of the WV public institutions of higher education. At least 3 credit hours must be earned at Marshall University.
- No more than 72 hours of community college credit can be applied toward the RBA.

Areas of Emphasis

- Anthropology, Emphasis (Regents Bachelor of Arts) (p. 691)
- Communication Studies, Emphasis (Regents Bachelor of Arts) (p. 692)
- Creative Writing in English, Emphasis (Regents Bachelor of Arts) (p. 692)
- Criminal Justice, Emphasis (Regents Bachelor of Arts) (p. 692)
- Cyber Forensics, Emphasis (Regents Bachelor of Arts) (p. 692)
- Game Development, Emphasis (Regents Bachelor of Arts) (p. 692)
- Geography - GIScience, Emphasis (Regents Bachelor of Arts) (p. 692)
- Geography - Human, Emphasis (Regents Bachelor of Arts) (p. 692)
- Geography - Physical, Emphasis (Regents Bachelor of Arts) (p. 693)
- Geography, Emphasis (Regents Bachelor of Arts) (p. 693)
- Information Assurance, Emphasis (Regents Bachelor of Arts) (p. 693)
- Instructional Technology and Library Science, Emphasis (Regents Bachelor of Arts) (p. 693)
- Literature in English, Emphasis (Regents Bachelor of Arts) (p. 693)
- Military Science, Emphasis (Regents Bachelor of Arts) (p. 693)
- Political Science, Emphasis (Regents Bachelor of Arts) (p. 694)
- Preschool Development, Emphasis (Regents Bachelor of Arts) (p. 694)
- Psychology, Emphasis (Regents Bachelor of Arts) (p. 694)
- Religious Studies, Emphasis (Regents Bachelor of Arts) (p. 694)
- Sociology, Emphasis (Regents Bachelor of Arts) (p. 694)
- Studio Art, Emphasis (Regents Bachelor of Arts) (p. 694)
- Web Application Development, Emphasis (Regents Bachelor of Arts) (p. 694)
- Women's Studies, Emphasis (Regents Bachelor of Arts) (p. 695)

Anthropology, Emphasis (Regents Bachelor of Arts)

- General Education Course

Code	Title	Credit Hours
ANT 201	Cultural Anthropology (CT)	3
ANT 322	Archaeology	3
ANT 361	Ethnographic Research	3
or ANT 491	Theory in Ethnology	
Three additional Anthropology courses at the 300-400 level		9
Total Credit Hours		**18**

Communication Studies, Emphasis (Regents Bachelor of Arts)

- General Education Course

Code	Title	Credit Hours
CMM 103	Fund Speech-Communication	3
15 additional hours of Communication Studies courses at the 300-400 level		15
Total Credit Hours		**18**

Creative Writing in English, Emphasis (Regents Bachelor of Arts)

15 hours of 300-400 level courses listed as Creative Writing by Marshall's Department of English.

Criminal Justice, Emphasis (Regents Bachelor of Arts)

- General Education Course

Code	Title	Credit Hours
CJ 200	Intro to Criminal Justice	3
15 additional hours of Criminal Justice courses at the 300-400 level		15
Total Credit Hours		**18**

Cyber Forensics, Emphasis (Regents Bachelor of Arts)

Code	Title	Credit Hours
CFS 261	Introduction to Linux	3
IST 264		3
CFS 400	Intro to Cyber Forensics	3
CFS 440	Digital Evidence	4
CFS 460	Applied Cyber Forensics	4
CFS 462	Network Forensics	4
CFS 467	Mobile Device Forensics	4
Total Credit Hours		**25**

Game Development, Emphasis (Regents Bachelor of Arts)

Code	Title	Credit Hours
CS 110	Computer Science I	3
CS 120	Computer Science II	3
CIT 340	Game Development I:2D	3
CIT 440	Computer Graphics for Gaming	3
CIT 441	Game Development II:3D	3
CIT 443	Game Development III: AI	3
ART 454	Motion Design II	3
Select one of the following:		3
CIT 446	3D Modeling and Animation	
CIT 447	Modeling/Simulation Dev	
CIT 448	Mobile Game Development	
Total Credit Hours		**24**

Geography - GIScience, Emphasis (Regents Bachelor of Arts)

Code	Title	Credit Hours
Select at least 18 hours from the following. At least 15 hours must be at the 3-400 level:		18
GEO 110	Basic GIS	
GEO 111	Air Photos & Satellite Imagery	
GEO 112	Smartphone GPS	
GEO 113	Web GIS	
GEO 423	Cartography & GIS	
GEO 426	Principles of GIS	
GEO 429	Location Analysis and GIS	
GEO 430	Environmental Raster GIS	
GEO 431	Remote Sensing & Photogram	
GEO 432	Enterprise GIS	
GEO 433	GPS & Mobile Geospatial Tech	
GEO 440	Spatial Statistics and GIS	
GEO 454	Drones: Remote Sensing & GIS	
GEO 490	Internship	

Geography - Human, Emphasis (Regents Bachelor of Arts)

- General Education Course

Major

Code	Title	Credit Hours
Select at least 18 hours from the following. At least 15 hours must be at the 3-400 level:		18
GEO 100	Intro to Human Geography (CT)	
GEO 203	Economic Geography (CT)	
GEO 222	Global Environment Issues (CT)	
GEO 206	Geography West Virginia	
GEO 305	Geog of USA & Canada	
GEO 317	World Regional Geography	
GEO 402	Geography of Appalachia	
GEO 404	Geography of Europe	
GEO 406	Population Geography	
GEO 408	Geog of South & Middle America	
GEO 410	Urban Geography	
GEO 422	Environmental Geography	
GEO 426	Principles of GIS	
Total Credit Hours		**18**

Geography - Physical, Emphasis (Regents Bachelor of Arts)

- General Education Course

Code	Title	Credit Hours
Select one of the following:		3-4
GEO 101	Physical Geography (CT)	
GEO 222	Global Environment Issues (CT)	
GEO 230	Intro to Meteorology (CT)	
Select at least 15 hours from the following:		15
GEO 350	Severe Storms and Natl Hzrds	
GEO 422	Environmental Geography	
GEO 425	Climatology	
GEO 431	Remote Sensing & Photogram	
Weather Analysis course		
Total Credit Hours		**18-19**

Geography, Emphasis (Regents Bachelor of Arts)

Code	Title	Credit Hours
Geography 100-200 level courses		3-4
15 additional hours of Geography courses at the 300-400 level		15
Total Credit Hours		**18-19**

Information Assurance, Emphasis (Regents Bachelor of Arts)

Code	Title	Credit Hours
CFS 261	Introduction to Linux	3
IST 264		3
CIT 352	Network Protocols and Admin	3
CFS 305	Open Source Intelligence	3
CFS 357	Network Penetration and Attack	4
CFS 454	Network Defense	4
CFS 461	Cyber Warfare	3
Total Credit Hours		**23**

Instructional Technology and Library Science, Emphasis (Regents Bachelor of Arts)

Fifteen hours of ITL-related 300-400 level courses with a C or better. Courses to choose from include:

Code	Title	Credit Hours
ITL 350	Adv Digital Literacy Skills	3
ITL 365	Instructional Technology Apps	3
ITL 400	Intro to New Literacies	3
ITL 406	Digital Citizenship	3
ITL 455	Pedagogy of New Literacies	3
ITL 466	Prod of Instruct Tech Material	3
ITL 455	Pedagogy of New Literacies	3
ITL 483	Special Topics	1-4

Literature in English, Emphasis (Regents Bachelor of Arts)

15 hours of 300-400 level courses listed as Literature by Marshall's Department of English.

Military Science, Emphasis (Regents Bachelor of Arts)

Code	Title	Credit Hours
Select at least 15 hours of 3-400 level Military Science:		15
MS 301	Leadership and Prob Solving	
MS 301L	Adv Course Lead Lab III	
MS 302	Leadership and Ethics	
MS 302L	Adv Course Lead Lab III	
MS 401	Leadership and Management	

MS 401L	Adv Course Lead Lab IV	
MS 402	Officership	
MS 402L	Adv Course Lead Lab IV	
Total Credit Hours		**15**

Note that departmental permission is required to begin this sequence with MS 301 Leadership and Prob Solving, designed for ROTC students.

Code	Title	Credit Hours
MS 101	Foundations of Officership	1
MS 101L	Mil Sci Basic Lead Lab I	1
MS 102	Basic Leadership	1
MS 102L	Mil Sci Basic Lead Lab I	1
MS 201	Individual Leadership Studies	2
MS 201L	Mil Sci Basic Lead Lab II	1

Political Science, Emphasis (Regents Bachelor of Arts)

Any 15 hours of 300-400 level PSC courses.

Preschool Development, Emphasis (Regents Bachelor of Arts)

Code	Title	Credit Hours
ECE 215	Family Relationships	3
ECE 303	Child Development	3
ECE 322	Language & Literacy	3
ECE 323	Assess Early Childhood	3
ECE 430	Preschool Curr and Methods	3
CISP 320	Survey Exceptional Child	3
CISP 420	Survey Except Child II	3
Total Credit Hours		**21**

Psychology, Emphasis (Regents Bachelor of Arts)

- General Education Course

Code	Title	Credit Hours
PSY 201	Introductory Psychology (CT)	3
15 additional hours of Psychology courses at the 300-400 level		15
Total Credit Hours		**18**

Religious Studies, Emphasis (Regents Bachelor of Arts)

Any 18 hours of 300-400 level Religious Studies courses. At least 6 hours must be taken through Marshall University.

Sociology, Emphasis (Regents Bachelor of Arts)

- General Education Course

Code	Title	Credit Hours
SOC 200	Introductory Sociology (CT)	3
SOC 344	Social Research I	3
SOC 360	Sociological Theory	3
Additional hours of Sociology courses at the 300-400 level		9
Total Credit Hours		**18**

Studio Art, Emphasis (Regents Bachelor of Arts)

Minimum requirements are 15 hours of 300-400 level courses with necessary prerequisites. Each area requires two prerequisite classes (6 hours). See your advisor for specific areas, courses, and possible substitutions. The areas include Ceramics, Fibers, Graphic Design, Painting, Photography, Printmaking and Sculpture.

Web Application Development, Emphasis (Regents Bachelor of Arts)

Code	Title	Credit Hours
CS 110	Computer Science I	3
CIT 263	Web Programming I	3
CIT 313	Web Programming II	3
CIT 365	Database Management	3
CIT 466	Database Programming	3
CIT 416	Advanced Web Programming	3
ART 454	Motion Design II	3
Other courses can be substituted with the permission of the CIT department chair.		
Total Credit Hours		**21**

Women's Studies, Emphasis (Regents Bachelor of Arts)

Code	Title	Credit Hours
WS 101	Intro to Women's Studies	3
15 hours of WS designated courses at the 300-400 level. To be acceptable courses must have the WS designator.		15
Total Credit Hours		**18**

Joan C. Edwards School of Medicine

Contacts:
Website: https://jcesom.marshall.edu/

Established in 1976, the School of Medicine quickly developed a reputation for providing students with a high-quality, hands-on medical education delivered in an atmosphere of caring and respect. Since that time, the school has also dramatically expanded its scope of research and clinical services, giving students an energized learning environment in which to become physicians. With three new educational facilities, two new clinical departments and more progress on the horizon, the school continues to expand opportunities for students.

Admission Requirements

Marshall's School of Medicine selects students from a variety of academic, socioeconomic and personal backgrounds. Although most applicants are science majors, it encourages its applicants to meet its basic sciences requirements and then pursue their personal educational interests and abilities. The Admissions Committee considers the quality of students' work more important than the field in which it is taken.

As a state-assisted medical school, Marshall gives preference to West Virginia residents. Some positions also are available for well-qualified nonresidents who live in states adjoining West Virginia or who have strong ties to this state. To be considered, all applicants must be U.S. citizens or have permanent resident visas.

Entrants should have a bachelor's degree from an accredited college or university. Exceptionally well-qualified students may be considered after ninety semester hours of academic work if other requirements are met.

Minimum course requirements are 6 hours each of English and social or behavioral sciences and 8 hours each (with lab) of general biology or zoology, inorganic chemistry, organic chemistry and physics. All required courses must be passed with a grade of *C* or better by June 1 of the year of matriculation.

All applicants must take the Medical College Admissions Test, preferably in the spring of the year of application, but no later than the fall. The test must be taken within three calendar years of enrollment.

Applicants must exhibit excellence in character, motivation and ideals and should possess the many personal qualities essential for a career in medicine. Applicants are evaluated on the basis of four criteria: scholastic records, MCAT scores, academic references, and interviews.

The School of Medicine encourages qualified members of groups underrepresented in medicine to apply. It does not discriminate because of race, gender, religion, age, sexual orientation, disability or national origin.

Detailed information on the admissions process and a copy of the School of Medicine catalog are available at http://musom.marshall.edu/admissions (http://musom.marshall.edu/admissions/).

School of Pharmacy

Contacts: Dr. Eric Blough, Interim Dean
Website: https://www.marshall.edu/pharmacy/

The Marshall University School of Pharmacy strives to educate compassionate, ethical, and competent students to become innovative thinkers, problem solvers, and the future leaders of our profession. To accomplish these goals, the school has developed a curriculum that fuses local practice standards and vision to the evolving trends within our discipline. The school's vision of the skills, knowledge, and abilities required for the success of future pharmacists is central to its Pharm.D. curriculum.

3+4 Accelerated Pathways

The Marshall School of Pharmacy, Marshall College of Science, and Marshall College of Health Professions have partnered to provide Marshall undergraduate students with three opportunities to earn a joint Bachelor of Science or Bachelor of Health Science and Doctor of Pharmacy degree.

The three 3+4 pathways programs allow students to complete three years of undergraduate education and four years of pharmacy school enroute to earning a bachelor's and Pharm.D. degree. The Marshall College of Science and College of Health Professions will recognize the first year of the pharmacy curriculum as the student's senior year and will award students the bachelor's degree after the first year is successfully completed.

For more information please visit https://www.marshall.edu/pharmacy/academic-partnerships/#marshall.

Admission Requirements

Students interested in pursuing admission to the Pharm.D. program at Marshall must apply through the Pharmacy College Application Service (PharmCAS at www.pharmcas.org (http://www.pharmcas.org)). The suggested minimum undergraduate Grade Point Average (GPA) for admission consideration is a 2.50 on a 4.00 scale and the suggested prerequisite GPA minimum is 2.75. Prerequisite coursework need not be completed prior to application, but must be completed prior to matriculation into the Pharm.D. program.

The school admits students only for the fall semester. Admission to the professional program is competitive and the admission process considers each candidate holistically. Students are initially screened based upon academic accomplishments (overall and prerequisite GPA) and reference letters in support of the application.

Students admitted to the program must have the physical, mental and emotional ability to learn and accomplish the competencies

required of a pharmacy practitioner, as well as the character and thought processes necessary to make professional judgments that benefit the patients being served. Applicants with exceptional scholastic performance and reference letters will be considered for an on-site interview. On-site interviews will focus upon assessing student leadership skills, character, motivation, critical thinking skills, communication abilities, problem-solving ability and group work skills.

The Marshall University School of Pharmacy encourages qualified members of groups underrepresented in pharmacy to apply. The school does not discriminate because of race, gender, religion, age, sexual orientation, disability or national origin. Detailed information on the admissions process and a copy of the School of Pharmacy catalog are available at www.marshall.edu/pharmacy (http://www.marshall.edu/pharmacy/).

Degree Requirements

School of Pharmacy Prerequisite Coursework

In order to optimally be prepared for the rigors of the program, students will require knowledge and understanding of the basic principles of communication (composition), science (biology, chemistry, and physics), human anatomy, human physiology, and math. The program's prerequisite coursework is designed to provide the student with sufficient breadth and depth of knowledge to facilitate program success. A summary of the Pharm.D. program prerequisite coursework is provided below:

Code	Title	Credit Hours
English Composition (2 semesters)		6
Calculus (1 semester)		3
Statistics (1 semester)		3
Biology w/Lab (2 semesters)		8
Chemistry w/Lab (2 semesters)		8
Human Anatomy w/Lab (1 semester)		4
Human Physiology w/Lab (1 semester)		4
Microbiology w/Lab (1 semester)		4
Organic Chemistry w/Lab (2 semesters)		8
Physics w/Lab (1 semester)		4
Social Science (1 semester)		3

University College

Contacts: Dr. Sherri Stepp, Associate Dean of Undergraduate Studies and Director of University College; and Chris Atkins, Assistant Director of University College
Website: http://www.marshall.edu/uc (http://www.marshall.edu/uc/)

University College (UC) was created in 1999 to unite several important academic and student services. UC is the official college of undecided students, conditionally admitted students, some pre-nursing students, students enrolled in college courses in the high schools/early entry high school students, special admits, transient students and exchange students. In addition to academic advising for undecided, conditionally admitted and some pre-nursing students, UC provides many opportunities to all Marshall University students including Tutoring Services, University Studies (UNI) courses, the National Student Exchange Program, and math placement exams.

Mission Statement

University College offers students a solid foundation of academic skills for progression into another Marshall University college to declare a major and graduate. University College is dedicated to adhering to national academic advising standards, providing professional academic guidance in a holistic and caring manner, understanding and practicing inclusion, operating with high ethical standards, embracing innovation and creativity, collaborating with the university community to ensure student success, safeguarding the privacy of students, and encouraging student engagement in their own educational process. University College extends this mission to all Marshall students by providing a broad range of academic services and transitional support programs.

University College provides advising for undecided students, conditionally admitted students, some pre-nursing students, students enrolled in college courses in the high schools/early entry high school students and special admits. Undecided, conditionally admitted and pre-nursing students will be assigned a specific University College advisor. Advising is provided in a supportive atmosphere where students may obtain information regarding various majors and academic opportunities. Appointments are encouraged, but not required.

Conditionally Admitted Students

Marshall University offers a limited number of conditional admissions to entering freshman students whose academic credentials fall slightly below regular admission requirements. Students not meeting the requirements for regular admission should contact the Office of Admissions to inquire about this opportunity.

Conditional students are admitted to University College and are not eligible to declare an academic major. Students must meet specific requirements within three semesters to gain full admission to the university. Requirements include:

- For students having Verbal ACT scores of less than 18 or SAT ERW 480, successful completion of required corequisite English course.
- Successful completion of academic support class (UNI 100 Freshman First Class).
- Completion of 18 earned hours with a 2.00 GPA (cumulative and MU) *or* 15 or more earned hours with a 3.00 or better during first semester as a conditionally admitted student..

Students will be assigned an academic advisor, who will guide them through their conditional requirements while enrolling in courses meeting general education requirements and recommended exploratory courses in majors of interest. Once all requirements and prerequisites are met, students are eligible to declare a major in a degree-granting college at Marshall University. (*Note:* Some majors and colleges require a separate application and have additional requirements for admission into their programs.)

Students who are conditionally admitted will be advised to take courses that meet general education requirements for all majors as well as the opportunity to take up to 12 hours of exploratory coursework outside of general education requirements. Students may also enroll in UNI 103 Career Planning Undecided.

Undecided Students

Advisors will work with undecided students to help them explore a major that meets their interests and abilities while enrolling in

courses meeting general education requirements and recommended exploratory courses in majors of interest. In addition, students will be provided with opportunities to improve their student success skills and development of a career path. Students must declare an academic major upon completion of the 30th credit hour of coursework.

Undecided students will be advised to take courses that meet the general education requirements for all majors as well as the opportunity to take up to 12 hours of exploratory coursework outside of general education requirements. Students may also enroll in UNI 103 Career Planning Undecided.

Pre-Nursing Students

Pre-Nursing students will be assigned an academic advisor who is knowledgeable of the nursing major and course requirements, as well as the nursing application requirements and application procedures required by the College of Health Professions. The assigned advisor will assist students in selecting required general education courses and will assist in the exploration of other health-related academic majors.

Pre-nursing students in University College will be advised to take courses that meet the general education requirements for all majors as well as specific courses that help students earn points on the ASN (two-year) or BSN (4-year) nursing program application. Pre-nursing students may also take up to 12 hours of exploratory coursework outside of general education requirements.

Early Entry High School Students

Under certain circumstances, high school students may enroll for college credit in their high schools, in college courses on a Marshall campus or at one of the regional centers. For requirements, see entry under the "Admissions" section of this catalog.

Marshall University offers a variety of early admission options. Students may apply to attend Marshall University on either a full- or part-time basis prior to graduating from high school. Early enrollment students are subject to the same policies as other Marshall University students, including academic probation and suspension policies. Students who enroll at Marshall University prior to high school graduation are not eligible for freshman admission, financial aid, or on-campus housing. For admission to Marshall as an Early Admission student, applicants must meet the requirements listed in the Admissions section of this catalog. Students with an exceptional talent in a discipline such as music may request permission to enroll in coursework in that discipline.

Transient Students (Students Visiting from Other Institutions)

Students enrolled in a degree program at another accepted, accredited institution during the previous year who would like to enroll at Marshall for no more than two consecutive semesters (excluding summer terms) can be admitted as transient students. See the entry under "Admissions" for further information. For assistance in enrolling in classes, transient students should contact University College by calling 304-696-3169.

Placement in English and Math

Students are required to obtain a Verbal ACT score of 18 (SAT ERW 480) to be eligible to enroll in college-level English composition courses. Students with verbal scores below 18 must enroll in a corequisite English course, ENG 101P Beginning Composition Plus, where prerequisite work is combined with college-level coursework.

Required prerequisites for math courses vary based on the individual course. The prerequisite for each course is noted in the Courses of Instruction section found in this catalog. Students who do not meet the prerequisites for their required math course(s) may challenge their placement by taking an exam coordinated by University College. Tests are currently being offered remotely. To schedule a remote exam and obtain information to prepare for the exam, please call 304-696-3169 or visit the University College website at https://www.marshall.edu/uc (http://www.marshall.edu/uc/).

Academic Probation and Suspension Policy for University College Students

All Marshall University students are subject to the Academic Probation and Suspension Policy as defined in the "Academic Information" section of this catalog.

Early enrollment students have the same rights and responsibilities as on-campus students and are subject to the University's Academic Probation and Suspension Policy.

Dismissal from University College

Students who are conditionally admitted to Marshall University must meet specific requirements within three semesters to gain full admission to the university. Failure to meet these defined requirements (see above) in the allotted three semesters will result in dismissal from University College and Marshall University. University College students may have the opportunity to appeal dismissal based on extenuating circumstances and appropriate documentation.

National Student Exchange

Please see description under "Learning Opportunities and Resources (p. 46)."

Tutoring Services

Please see description under "Learning Opportunities and Resources (p. 46)."

Week Of Welcome (WOW)

Week of Welcome is an opportunity for first-year students to familiarize themselves with the Huntington campus and learn what it means to be a student at Marshall University. Arriving on campus a few days early, freshmen participate in the President's Freshman Convocation and sessions with the dean, faculty and staff of their academic college, along with other large group sessions and small group seminars. WOW programs are also offered to students attending the South Charleston campus, the Mid-Ohio Valley Center, and the Teays Valley Regional Center. Week of Welcome (WOW) is an integral part of Freshman First Class (UNI 100 Freshman First Class), an introduction to academic structures and expectations of college life. Week of Welcome includes optional evening activities and social events for both residential and commuter students. Information about Week of Welcome is available at www.marshall.edu/wow (http://www.marshall.edu/wow/).

Courses

UNI 100 Freshman First Class **1 Credit hour**
An introduction to the academic structures and expectations of the University including the E-portfolio process. An introduction to the academic structures and expectations of the University including the E-portfolio process.
Attributes: No Textbook Required
Grade Mode: Normal Grading Mode

UNI 102 Strat for Academic Success **1 Credit hour**
An academic enrichment course which provides students with strategies and practical experience for academic success. Topics to be covered include research skills, critical thinking applications, and effective study skills.
Attributes: No Textbook Required
Grade Mode: Normal Grading Mode

UNI 103 Career Planning Undecided **1 Credit hour**
Designed for undecided college students. Explore career options and majors. Topics include interest testing, career information, decision-making skills, and job finding strategies. Course does not count toward graduation. Designed for undecided college students. Explore career options and majors. Topics include interest testing, career information, decision-making skills, and job finding strategies. Course does not count toward graduation.
Attributes: No Textbook Required
Grade Mode: Normal Grading Mode

UNI 104 Adv Strat for Acad Success **1 Credit hour**
Course provides practical strategies for assessing personal and academic challenges, honing critical thinking skills to make informed decisions, improving learning and time management skills, tracking progress toward personal goals.
Grade Mode: Normal Grading Mode

UNI 201 Peer Mentoring **1 Credit hour**
Students trained as peer advisors will lead discussions, campus field trips and work with faculty advisors in the design and implementation of the freshamn introduction to campus life and classes. (Prerequisite: Permission of the Executive Director CAE or Dean of University College) Students trained as peer advisors will lead discussions, campus field trips and work with faculty advisors in the design and implementation of the freshamn introduction to campus life and classes. (Prerequisite: Permission of the Executive Director CAE or Dean of University College)
Attributes: No Textbook Required
Grade Mode: Normal Grading Mode

UNI 202 Introduction to Scholarship **1 Credit hour**
Prepares students to participate on an active research team, with the guidance of (a) faculty research mentor(s), pursing a line of research.
Grade Mode: Normal Grading Mode

UNI 203 Scholarship Discovery **3 Credit hours**
Engages students in original research that advances knowledge and seeks to improve community conditions.
Grade Mode: Normal Grading Mode

UNI 304 Scholarship of Application **3 Credit hours**
Empowers students to synthesize information and knowledge gained from original research into a meaningful, coherent, and public body of work.
Grade Mode: Normal Grading Mode

UNI 400 Graduate School Preparation **2 Credit hours**
This course will provide necessary steps, tools, and resources future graduates need in completing their undergraduate career and pursuing a graduate degree. Designed for students graduating within one year.
Grade Mode: Normal Grading Mode

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Abbreviations

- College of Arts and Media
- College of Business
- College of Education
- College of Health Professions
- Honors College
- College of Information Technology and Engineering
- College of Liberal Arts
- College of Science
- Joan C. Edwards School of Medicine

Courses listed in this catalog are subject to change through approved academic channels. New courses and changes in existing coursework are initiated by the particular departments or programs, approved by the appropriate academic dean and/or curriculum committee, by the Faculty Senate, and the president.

Before the beginning of each semester, a “Schedule of Courses” is printed announcing the courses that will be offered by the college and schools. Copies may be obtained in the Registrar’s Office and at various sites on campus. Course schedules are available online at www.marshall.edu/myMU (http://www.marshall.edu/myMU/).

Standardized Course Listings

All departments include among their offerings the following undergraduate course numbers and titles:

- 280-283 Special Topics. 1-4 hrs.
- 297-298 Instructional TV Courses. 1-4 hrs.
- 480-483 Special Topics. 1-4 hrs.
- 485-488 Independent Study. 1-4 hrs.
- 497-498 Instructional TV Courses. 1-4 hrs.

Departments that offer practica and internships use the following undergraduate course numbers:

- Practicum. 270-272, 370-372, 470-472.
- Internship. 290, 490.

Abbreviations

Abbreviation	Description
PR	Prerequisite
CR	Corequisite
CR/NC	Credit/Non-Credit grading
Lec-lab.	Lecture and laboratory hours per week (e.g., 2 lec-4 lab. means two hours lecture and four hours laboratory per week).
Rec.	Recommended
I,II,S.	Offered first semester, second semester, summer.

Accountancy (ACC)

- General Education Course

ACC 198 Accounting Professionalism **1 Credit hour**
Introduction to the accounting profession, career options, professional responsibilities, and codes of conduct. Professionalism, networking, interviewing, job search, and technical writing skills are developed.
Pre-req: ACC 215 with a minimum grade of C.
Grade Mode: Normal Grading Mode

ACC 215 Accounting Principles (CT) **3 Credit hours**
Introduction to principles and procedures of double-entry accounting records and reports. This course meets a Core 1/Critical Thinking requirement.
Attributes: Critical Thinking
Grade Mode: Normal Grading Mode

ACC 216 Principles of Accounting **3 Credit hours**
Using accounting information to assist in managerial control and decision making. Using accounting information to assist in managerial control and decision making.
Pre-req: ACC 215 with a minimum grade of D.
Grade Mode: Normal Grading Mode

ACC 280 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

ACC 310 Acct for Entrepreneurs **3 Credit hours**
Principles, concepts and problems of accounting relevant to decision making for entrepreneurs including: pro forma financial statements, cash flow, securing financing and cost structures. NOT OPEN TO STUDENTS IN THE LEWIS COLLEGE OF BUSINESS
Grade Mode: Normal Grading Mode

ACC 311 Intermediate Accounting I **3 Credit hours**
Study of U.S. and International accounting standards related primarily to assets and financial statement preparation. Accounting standards research and application of Excel are integrated throughout the course.
Pre-req: ACC 215 with a minimum grade of C and ACC 216 with a minimum grade of C.
Grade Mode: Normal Grading Mode

ACC 312 Intermediate Accounting II **3 Credit hours**
Study of U.S. and International accounting standards related primarily to liabilities and revenue recognition. Accounting standards research and application of Excel are integrated throughout the course.
Pre-req: ACC 198 with a minimum grade of D and ACC 311 with a minimum grade of C and MIS 200 with a minimum grade of D.
Grade Mode: Normal Grading Mode

ACC 318 Cost Accounting I **3 Credit hours**
A study of fundamental cost accounting concepts and objectives including project cost accumulation, costvolume-profit analysis, direct costing, budget techniques, standard costing, and differential cost analysis. A study of fundamental cost accounting concepts and objectives including project cost accumulation, cost- volume-profit analysis, direct costing, budget techniques, standard costing, and differential cost analysis.
Pre-req: ACC 215 with a minimum grade of C and ACC 216 with a minimum grade of C and (MGT 218 with a minimum grade of D or MGT 318 with a minimum grade of D or MTH 225 with a minimum grade of D or STA 225 with a minimum grade of D or IST 130 with a minimum grade of D or EDF 417 with a minimum grade of D or PSY 223 with a minimum grade of D or SOC 345 with a minimum grade of D).
Grade Mode: Normal Grading Mode

ACC 341 Acc Information Systems **3 Credit hours**
Introduction to accounting systems. Emphasis on concepts of analysis, design, and implementation of accounting systems with attention on internal and audit trail.
Pre-req: ACC 198 with a minimum grade of D and ACC 311 with a minimum grade of C.
Grade Mode: Normal Grading Mode

ACC 348 Federal Taxation **3 Credit hours**
Problems and procedures of income tax accounting. Problems and procedures of income tax accounting.
Pre-req: ACC 215 with a minimum grade of C.
Grade Mode: Normal Grading Mode

ACC 364 Forensic & Investigative Acct **3 Credit hours**
This course introduces students to forensic accounting focusing on criminal litigation and investigations of fraud.
Pre-req: ACC 311 with a minimum grade of C.
Grade Mode: Normal Grading Mode

ACC 412 Governmental Accounting **3 Credit hours**
A study of the use of accounting information in the financial management of governmental and non-profit entities. A study of the use of accounting information in the financial management of governmental and non-profit entities.
Pre-req: ACC 311 with a minimum grade of C.
Grade Mode: Normal Grading Mode

ACC 414 Adv Accounting Problems **3 Credit hours**
Selected problems in advanced accounting principles and procedures. Selected problems in advanced accounting principles and procedures.
Pre-req: ACC 312 with a minimum grade of C.
Grade Mode: Normal Grading Mode

ACC 418 Managerial Accounting **3 Credit hours**
The managerial approach to budgetary control. The managerial approach to budgetary control.
Pre-req: ACC 318 with a minimum grade of C.
Grade Mode: Normal Grading Mode

ACC 429 Auditing I **3 Credit hours**
A study of the theory and procedures of auditing and the legal and social responsibilities of the auditor. A study of the theory and procedures of auditing and the legal and social responsibilities of the auditor.
Pre-req: ACC 312 with a minimum grade of C and ACC 341 with a minimum grade of C and (MGT 218 with a minimum grade of D or MGT 318 with a minimum grade of D or MTH 225 with a minimum grade of D or STA 225 with a minimum grade of D or MTH 210 with a minimum grade of D or IST 130 with a minimum grade of D or SOC 345 with a minimum grade of D or PSY 223 with a minimum grade of D or EDF 417 with a minimum grade of D).
Grade Mode: Normal Grading Mode

ACC 435 Internal Auditing **3 Credit hours**
This course discusses the applicable current internal auditing theory and procedures, including a review of corporate governance and risk assessment. This course discusses the applicable current internal auditing theory and procedures, including a review of corporate governance and risk assessment.
Pre-req: ACC 341 with a minimum grade of C.
Grade Mode: Normal Grading Mode

ACC 440 Accounting Analytics **3 Credit hours**
This course studies the impact of data analytics on accounting and auditing and explores when and how various analytical procedures and tools can be used to address business questions.
Pre-req: ACC 311 with a minimum grade of C.
Grade Mode: Normal Grading Mode

ACC 448 Federal Income Tax II **3 Credit hours**
Advanced course in taxation with emphasis on corporations, partnerships, estates, trusts, gifts, valuation and liquidity problems, and tax administration and practice. Advanced course in taxation with emphasis on corporations, partnerships, estates, trusts, gifts, valuation and liquidity problems, and tax administration and practice.
Pre-req: ACC 348 with a minimum grade of C and ACC 311 with a minimum grade of C.
Grade Mode: Normal Grading Mode

ACC 480 Special Topics **1-4 Credit hours**
Study of an advanced topic not normally covered in other courses. Accounting majors only, with permission of Department Chair.
Grade Mode: Normal Grading Mode

ACC 485 Independent Study **1-4 Credit hours**
Grade Mode: Normal Grading Mode

ACC 490 Internship **3-12 Credit hours**
A supervised internship in which the student works for a business firm/agency to gain practical experience in the student's major. The program of work and study will be defined in advance and the student's performance will be evaluated. A supervised internship in which the student works for a business firm/agency to gain practical experience in the student's major. The program of work and study will be defined in advance and the student's performance will be evaluated.
Grade Mode: Credit/No Credit Grade Only

ACC 499 Professional and Ethics Sem **3 Credit hours**
Designed to increase the student's awareness of the accounting environment, emphasizing ethics. Communication skills are improved through impromptu speaking, written reports, group projects and formal presentations. Capstone Course.
Pre-req: ACC 318 with a minimum grade of C and ACC 429 (may be taken concurrently) with a minimum grade of D and ACC 440 (may be taken concurrently) with a minimum grade of D and ACC 448 (may be taken concurrently) with a minimum grade of D.
Concurrent PR: ACC 429 and ACC 440 and ACC 448
Attributes: Capstone Course
Grade Mode: Normal Grading Mode

Anthropology (ANT)

- General Education Course

ANT 201 Cultural Anthropology (CT) **3 Credit hours**
Introduction to the scientific study of culture with emphasis on the cultures of small-scale societies. This class emphasizes critical thinking skills. Introduction to the scientific study of culture with emphasis on the cultures of small-scale societies. This class emphasizes critical thinking skills.
Attributes: Critical Thinking, International, Core II Social Sciences
Grade Mode: Normal Grading Mode

ANT 201H Cultural Anthropol Honors (CT) **3 Credit hours**
Introduction to the scientific study of culture with emphasis on the cultures of small-scale societies. This class emphasizes critical thinking skills. For the honors student. Introduction to the scientific study of culture with emphasis on the cultures of small-scale societies. This class emphasizes critical thinking skills. For the honors student.
Pre-req: Admitted Honors College with a score of 1.
Attributes: Critical Thinking, Honors, International, Core II Social Sciences
Grade Mode: Normal Grading Mode

ANT 280 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

ANT 281 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

ANT 282 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

ANT 283 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

ANT 301 Social Statistics **3 Credit hours**
Introduction to statistical analysis of social data. Introduction to statistical analysis of social data.
Grade Mode: Normal Grading Mode

ANT 322 Archaeology **3 Credit hours**
Introduction to the methods and theory of archaeology. Introduction to the methods and theory of archaeology.
Grade Mode: Normal Grading Mode

ANT 323 Archaeolog Field Train **3-6 Credit hours**
Supervised instruction in on-site archaeological data collection, survey and excavation techniques. Supervised instruction in on-site archaeological data collection, survey and excavation techniques.
Grade Mode: Normal Grading Mode

ANT 324 Archaeological Analysis **3 Credit hours**
Supervised instruction in processing and analyzing archaeological materials recovered by fieldwork. Supervised instruction in processing and analyzing archaeological materials recovered by fieldwork.
Pre-req: ANT 322.
Grade Mode: Normal Grading Mode

ANT 325 World Prehistory **3 Credit hours**
An introduction to the archaeology of pre-literate cultures, from the emergence of Homo Sapiens to the present. An introduction to the archaeology of pre-literate cultures, from the emergence of Homo Sapiens to the present.
Grade Mode: Normal Grading Mode

ANT 326 Classical Archaeology **3 Credit hours**
Archaeology of ancient Greece and Rome, and their colonies and imperial domains. Archaeology of ancient Greece and Rome, and their colonies and imperial domains.
Grade Mode: Normal Grading Mode

ANT 331 Physical Anthropology **3 Credit hours**
The study of human physical evolution, from the earliest hominins to the present day, based on the study of primatology, human genetics, and the paleontological record. The study of human physical evolution, from the earliest hominins to the present day, based on the study of primatology, human genetics, and the paleontological record.
Grade Mode: Normal Grading Mode

ANT 361 Ethnographic Research **3 Credit hours**
A project-based introduction to ethnographic research design and practice. A project-based introduction to ethnographic research design and practice.
Grade Mode: Normal Grading Mode

ANT 362 Health, Culture & Society **3 Credit hours**
A cross-cultural, historical, and bio-cultural examination through case-study of social and environmental factors that affect human health and disease.
Pre-req: ANT 201 or ANT 201H or SOC 200 or SOC 200H.
Attributes: Multicultural
Grade Mode: Normal Grading Mode

ANT 363 US Culture and the Family **3 Credit hours**
An historically and ethnographically informed consideration of the changing meaning and place of family and work in everyday American life, media, and politics. An historically and ethnographically informed consideration of the changing meaning and place of family and work in everyday American life, media, and politics.
Grade Mode: Normal Grading Mode

ANT 364 Expressive Culture **3 Credit hours**
Exploration of expressive cultural forms in the construction of personal and communal identities and their meaningful attachment to particular geographic places. Exploration of expressive cultural forms in the construction of personal and communal identities and their meaningful attachment to particular geographic places.
Attributes: Social Sciences
Grade Mode: Normal Grading Mode

ANT 365 Anthropology through Film **3 Credit hours**
Exploration of film as general anthropological field of interest with emphasis on understanding selected films as cultural texts and association with particular and changing cultural, political, economics and historical contexts. Exploration of film as general anthropological field of interest with emphasis on understanding selected films as cultural texts and association with particular and changing cultural, political, economics and historical contexts.
Grade Mode: Normal Grading Mode

ANT 371 Linguistic Anthropology **3 Credit hours**
Introduction to the theories and methodologies of linguistic anthropology and to language as a cultural phenomenon and form of diversity.
Attributes: International
Grade Mode: Normal Grading Mode

ANT 372 Methods in Language & Culture **3 Credit hours**
In this course, students will learn a variety of methods for studying language and culture used in anthropology, sociolinguistics, and applied linguistics by collecting and analyzing actual linguistic data
Grade Mode: Normal Grading Mode

ANT 402 Principles of GIS **4 Credit hours**
Introduction to Geographic Information Systems (GIS) principles, techniques, and applications for the social and natural sciences with emphasis on foundational geographic principles in a lecture/lab format. Introduction to Geographic Information Systems (GIS) principles, techniques, and applications for the social and natural sciences with emphasis on foundational geographic principles in a lecture/lab format.
Attributes: Digital Humanities
Grade Mode: Normal Grading Mode

ANT 411 Deconstructing Appalachia **3 Credit hours**
Exploration of the historical and cultural significance of Appalachia in the American experience and imagination.
Attributes: American Institutions
Grade Mode: Normal Grading Mode

ANT 412 Appalachian Field Exp I **3-6 Credit hours**
Supervised fieldwork in an Appalachian community studying the social and cultural characteristics of the area.
Pre-req: ANT 411.
Grade Mode: Normal Grading Mode

ANT 428 Arch Theory and Analysis **3 Credit hours**
An introduction to archaeological theory and its application to the material record of cultures, past and present.
Grade Mode: Normal Grading Mode

ANT 440 African Cultures **3 Credit hours**
Comparative analysis of the ethnic groups of Africa, using archaeological and ethnographic data.
Attributes: International
Grade Mode: Normal Grading Mode

ANT 441 Oceania **3 Credit hours**
Comparative analysis of the indigenous peoples and cultures of Melanesia and Polynesia, using archaeological and ethnographic data.
Grade Mode: Normal Grading Mode

ANT 442 The Native Americans **3 Credit hours**
Comparative analysis of the indigenous inhabitants of North America, using archaeological and ethnographic data. PR: Six hours of anthropology or departmental permission. Comparative analysis of the indigenous inhabitants of North America, using archaeological and ethnographic data. PR: Six hours of anthropology or departmental permission.
Attributes: American Institutions
Grade Mode: Normal Grading Mode

ANT 445 American Ethnicities **3 Credit hours**
Comparative overview of historical and contemporary patterns of immigration, settlement, and inter-ethnic relations in the United States.
Attributes: International
Grade Mode: Normal Grading Mode

ANT 460 Crime and Custom **3 Credit hours**
This course examines law and legal processes in diverse cultures from anthropological and law and society perspectives.
Attributes: Multicultural
Grade Mode: Normal Grading Mode

ANT 464 Design, Planning & Health **3 Credit hours**
Social scientific study of how places where people live, work, and recreate affect quality of life and overall health with an emphasis on design decisions within urban and regional planning.
Attributes: Digital Humanities, Multicultural
Grade Mode: Normal Grading Mode

ANT 465 Disaster, Culture & Health **3 Credit hours**
Study of contemporary environmental and social problems emphasizing health impacts of natural and technological disasters on communities around the world.
Attributes: Digital Humanities, International
Grade Mode: Normal Grading Mode

ANT 466 Culture and Environment **3 Credit hours**
This course will examine the symbolic and structural dimensions of struggles over defining, organizing, and controlling the natural environment from biocultural perspective.
Attributes: International
Grade Mode: Normal Grading Mode

ANT 467 Culture in Ethnographies **3 Credit hours**
In depth exploration and comparison of diverse cultural groups through reading and discussing ethnographic texts. PR: Six credit hours of anthropology or departmental permission. In depth exploration and comparison of diverse cultural groups through reading and discussing ethnographic texts. PR: Six credit hours of anthropology or departmental permission.
Attributes: International
Grade Mode: Normal Grading Mode

ANT 468 National Identity **3 Credit hours**
Exploration of cultural, political and economic processes that contribute to creation and maintenance of the modern national state as an imagined community.
Grade Mode: Normal Grading Mode

ANT 472 Language, Gender and the Body **3 Credit hours**
Uses methods and theories from anthropology, linguistics, and sociology to examine how gendered bodies in different cultures are constructed through ways of acting in the world.
Attributes: Multicultural
Grade Mode: Normal Grading Mode

ANT 478 Intro to Sociolinguistics **3 Credit hours**
Sociolinguistics is the study of the effects of language in society relevant to discourse practices, language attitudes, variations, shifts and changes.
Pre-req: ENG 102 or ENG 302 or ENG 201H.
Grade Mode: Normal Grading Mode

ANT 480 Special Topics **1-4 Credit hours**
Study of topics of interest not covered in regularly scheduled courses.
Grade Mode: Normal Grading Mode

ANT 481 Special Topics **1-4 Credit hours**
Study of topics of interest not covered in regularly scheduled courses.
Grade Mode: Normal Grading Mode

ANT 482 Special Topics **1-4 Credit hours**
Study of topics of interest not covered in regularly scheduled courses.
Grade Mode: Normal Grading Mode

ANT 483 Special Topics **1-4 Credit hours**
Study of topics of interest not covered in regularly scheduled courses. Study of topics of interest not ccovered in regularly scheduled courses. PR: Six credit hours of anthropology or deparmental permission.
Grade Mode: Normal Grading Mode

ANT 485 Independent Study **1-4 Credit hours**
Individual study of topics not offered in regularly scheduled courses. Advance permission required. Individual study of topics not offered in regularly scheduled courses. Advance permission required.
Grade Mode: Normal Grading Mode

ANT 486 Independent Study **1-4 Credit hours**
Individual study of topics not offered in regularly scheduled courses. Advance permission required. Individual study of topics not offered in regularly scheduled courses. Advance permission required.
Grade Mode: Normal Grading Mode

ANT 487 Independent Study **1-4 Credit hours**
Individual study of topics not offered in regularly scheduled courses. Advance permission required. Individual study of topics not offered in regularly scheduled courses. Advance permission required.
Grade Mode: Normal Grading Mode

ANT 488 Independent Study **1-4 Credit hours**
Individual study of topics not offered in regularly scheduled courses. Advance permission required. Individual study of topics not offered in regularly scheduled courses. Advance permission required.
Grade Mode: Normal Grading Mode

ANT 489 Internship **1-4 Credit hours**
Supervised practicum founded on anthropological knowledge in a host institution. 40-45 hours of internship work correspond with 1 credit hour.
Grade Mode: Normal Grading Mode

ANT 491 Theory in Ethnology **3 Credit hours**
Introduction to major theoretical traditions of cultural anthropology with emphasis on the connection between fieldwork and development of theory.
Attributes: Multicultural
Grade Mode: Normal Grading Mode

ANT 492 Senior Seminar I **3 Credit hours**
Application of anthropological theory and practice to individually designed projects. This course fulfills the capstone requirement for undergraduate anthropology majors.
Grade Mode: Normal Grading Mode

ANT 493 Senior Seminar II **3 Credit hours**
Application of anthropological theory and practice to individually designed projects. Fulfills the capstone requirement for undergraduate majors.
Attributes: Capstone Course
Grade Mode: Normal Grading Mode

Art (ART)

- General Education Course

ART 101 Visual Culture and Research **3 Credit hours**
Introduction to the functions of art applications of media, elements and principles of design, artists, and aesthetics. (Required for Art Majors) Introduction to the functions of art applications of media, elements and principles of design, artists, and aesthetics. (Required for Art Majors)
Grade Mode: Normal Grading Mode

ART 112 Intro To Visual Art **3 Credit hours**
An introduction to the methods and principles of the visual arts. Students will consider the work of major artists in thematic contexts. (For non-art majors only.)
Attributes: Core II Fine Arts
Grade Mode: Normal Grading Mode

ART 112H Intro to Visual Art Honors **3 Credit hours**
An introduction to the methods and principles of the visual arts. Students will consider the work of major artists in thematic contexts. (For non-art majors only.)
Pre-req: Admitted Honors College with a score of 1.
Attributes: Core II Fine Arts, Honors
Grade Mode: Normal Grading Mode

ART 113 Art Education: Elementary **3 Credit hours**
An introduction to the materials and methods for teaching art in early childhood and elementary (PreK-6). Stages of development, integrated curriculum design, assessment, and instructional strategies are emphasized. An introduction to the materials and methods for teaching art in early childhood and elementary (PreK-6). Stages of development, integrated curriculum design, assessment, and instructional strategies are emphasized.
Grade Mode: Normal Grading Mode

ART 201 History of Art **3 Credit hours**
A survey of the development of architecture, sculpture, painting, and the minor arts to ca. 1400 A.D. to the present. A survey of the development of architecture, sculpture, painting, and the minor arts to ca. 1400 A.D. to the present.
Pre-req: ART 112 with a minimum grade of C or ART 101 with a minimum grade of C.
Grade Mode: Normal Grading Mode

ART 202 History of Art **3 Credit hours**
A survey of the history of art from the Renaissance to the present.
Pre-req: ART 112 with a minimum grade of C or ART 101 with a minimum grade of C.
Grade Mode: Normal Grading Mode

ART 214 Foundations: Grid/Chroma **3 Credit hours**
Introduction to graphic design principles/software in one half-semester workshop and color theory/painting in another. Students will develop visual, technical, and critical thinking skills by solving conceptual problems.
Grade Mode: Normal Grading Mode

ART 215 Foundations: Form/Space **3 Credit hours**
Introduction to 3D physical form/space by exploring ceramics in one half-semester workshop and sculpture in another. Students will develop visual, technical, and critical thinking skills by solving conceptual problems.
Grade Mode: Normal Grading Mode

ART 217 Foundations: Record/Layer **3 Credit hours**
Introduction to still life/figure drawing in one half-semester workshop and experimental drawing/mixed media in another. Students will develop perceptual, technical, and creative problem solving skills.
Grade Mode: Normal Grading Mode

ART 218 Foundations: Site/Matrix **3 Credit hours**
Introduction to installation art with fibers in one half-semester workshop and printmaking processes in another. Students will develop visual, technical, and critical thinking skills by solving conceptual problems.
Grade Mode: Normal Grading Mode

ART 219 Foundations: Frame/Time **3 Credit hours**
Introduction to digital/film photography in one half-semester workshop and 4D design principles/video-based processes in another. Students will develop visual, technical, and critical thinking skills by solving conceptual problems.
Attributes: Digital Humanities
Grade Mode: Normal Grading Mode

ART 255 Beginning Painting I **3 Credit hours**
Basic techniques using color creatively based on an understanding of visual structural elements; various media including water, acrylic and oil based paints. Basic techniques using color creatively based on an understanding of visual structural elements; various media including water, acrylic and oil based paints.
Pre-req: ART 214 with a minimum grade of C and ART 217 with a minimum grade of C.
Grade Mode: Normal Grading Mode

ART 271 Practicum **3 Credit hours**
Grade Mode: Normal Grading Mode

ART 272 Practicum **3 Credit hours**
Grade Mode: Normal Grading Mode

ART 280 Special Topics **1-4 Credit hours**
To be used for experimental courses. By permission only. To be used for experimental courses. By permission only.
Grade Mode: Normal Grading Mode

ART 281 Special Topics **1-4 Credit hours**
To be used for experimental courses. By permission only. To be used for experimental courses. By permission only.
Grade Mode: Normal Grading Mode

ART 282 Special Topics **1-4 Credit hours**
To be used for experimental courses. By permission only. To be used for experimental courses. By permission only.
Grade Mode: Normal Grading Mode

ART 283 Special Topics **1-4 Credit hours**
To be used for experimental courses. By permission only. To be used for experimental courses. By permission only.
Grade Mode: Normal Grading Mode

ART 298 Foundations Review: BFA **1 Credit hour**
Students must present art and design work from all foundations studio courses for faculty review. Required for program advancement. Art majors only.
Pre-req: (ART 101 with a minimum grade of C or ART 112 with a minimum grade of C) and ART 214 with a minimum grade of C and ART 215 with a minimum grade of C and ART 217 with a minimum grade of C and ART 218 with a minimum grade of C and ART 219 with a minimum grade of C.
Grade Mode: Normal Grading Mode

ART 299 Foundations Review: BA **1 Credit hour**
Students present artwork from foundations courses for faculty review. (Art Education 5-Adult: 218 not required). Successful completion of ART 299 is a prerequisite for advanced studio courses.
Pre-req: (ART 101 with a minimum grade of C or ART 112 with a minimum grade of C) and ART 214 with a minimum grade of C and ART 215 with a minimum grade of C and ART 217 with a minimum grade of C and ART 218 with a minimum grade of C and ART 219 with a minimum grade of C.
Grade Mode: Normal Grading Mode

ART 301 Printmaking Processes **3 Credit hours**
Experiments in the media of intaglio, lithography, serigraphy, relief collagraphs and new techniques in printmaking. Experiments in the media of intaglio, lithography, seri- graphy, relief collagraphs and new techniques in print- making.
Pre-req: ART 218 with a minimum grade of C.
Attributes: No Textbook Required
Grade Mode: Normal Grading Mode

ART 302 Relief Printmaking **3 Credit hours**
Traditional and experimental approaches to relief printmaking, including woodcut, linocut, wood engraving, relief etching, Japanese techniques, monoprints, and other press and handprinting relief processes. Traditional and experimental approaches to relief print-making, including woodcut, linocut, wood engraving, relief etching, Japanese techniques, monoprints, and other press and handprinting relief processes.
Pre-req: ART 301 with a minimum grade of C and (ART 298 with a minimum grade of C or ART 299 with a minimum grade of C).
Grade Mode: Normal Grading Mode

ART 303 Surface Design **3 Credit hours**
Introduction to surface design. Student will learn various techniques to apply color on fabric surface.
Pre-req: ART 214 with a minimum grade of C.
Grade Mode: Normal Grading Mode

ART 305 Ceramics **3 Credit hours**
Search for form and personal expressing through clay. Emphasis on handbuilding techniques, decorative processes and glaze application. Search for form and personal expressing through clay. Emphasis on handbuilding techniques, decorative processes and glaze application.
Pre-req: ART 215 with a minimum grade of C.
Grade Mode: Normal Grading Mode

ART 307 Sculpture **3 Credit hours**
Emphasis on modeling in clay and exploring the potential of plaster, wood and other materials relevant to the area of sculpture. Emphasis on modeling in clay and exploring the potential of plaster, wood and other materials relevant to the area of sculpture.
Pre-req: ART 215 with a minimum grade of C.
Grade Mode: Normal Grading Mode

ART 308 Weaving **3 Credit hours**
The student will demonstrate the ability to carry through the entire process for planning, through warping, threading, and weaving. Each will create unique art works while developing traditional technical skills. The student will demonstrate the ability to carry through the entire process for planning, through warping, threading, and weaving. Each will create unique art works while developing traditional technical skills.
Attributes: No Textbook Required
Grade Mode: Normal Grading Mode

ART 310 Art Education: Elementary **3 Credit hours**
An introduction to the materials and methods for teaching art in early childhood and elementary (PreK-6). Stages of development, integrated curriculum design, assessment, and instructional strategies are emphasized.
Grade Mode: Normal Grading Mode

ART 312 Typography **3 Credit hours**
Practical studio skills: Typography, application of design principles in print and digital media, and introduction to the computer as a design tool. Also, the designer's relationship to clients and other professionals. Practical studio skills: specifying type, photographic and airbruch techniques and preparation of mechanicals. Also, designer's relationship to agencies, clients, printers, and other professionals.
Pre-req: ART 214 with a minimum grade of C.
Grade Mode: Normal Grading Mode

ART 313 Installation Art With Fibers **3 Credit hours**
The student will create installation art using a variety of fibers tools, materials, and processes with focus on self-expression and the exploration of structure, space, color, form, and meaning.
Pre-req: ART 214 with a minimum grade of C.
Grade Mode: Normal Grading Mode

ART 314 Graphic Design I **3 Credit hours**
Sign combinations and visual structure, in relation to meaning of visual messages. Assignments include posters, advertising, information design, and corporate identity. Introduction to materials and procedures in the design process. Sign combinations and visual structure, in relation to meaning of visual messages. Assignments include posters, advertising, information design, and corporate identity. Introduction to materials and procedures in the design process.
Pre-req: (ART 214 with a minimum grade of C and ART 312 with a minimum grade of C) or (JMC 241 with a minimum grade of D and MKT 341 with a minimum grade of D).
Attributes: No Textbook Required
Grade Mode: Normal Grading Mode

ART 315 Intro to Photography **3 Credit hours**
Introduction to black and white photography through basic techniques of camera controls, lighting, traditional wet lab, and digital imaging.
Pre-req: ART 219 with a minimum grade of C.
Attributes: No Textbook Required
Grade Mode: Normal Grading Mode

ART 316 Graphic Design II **3 Credit hours**
Applies the use of type and images to design for advertising, editorial, for instructional purposed. Involvement with extended design and layout problems. Applies the use of type and images to design for advertising, editorial, for instructional purposed. Involvement with extended design and layout problems.
Pre-req: ART 314 with a minimum grade of C and (ART 298 with a minimum grade of C or ART 299 with a minimum grade of C).
Grade Mode: Normal Grading Mode

ART 317 Illustration **3 Credit hours**
Conceptual and technical development of illustrations for editorial and advertising purposes. Conceptual and technical development of illustrations for editorial and advertising purposes.
Pre-req: ART 217 with a minimum grade of C.
Grade Mode: Normal Grading Mode

ART 318 Art/Design for Websites **3 Credit hours**
This course will focus on art and design considerations in creating web sites. Current software will be used to create graphics, video and audio for web page and website design.
Pre-req: ART 214 with a minimum grade of C.
Attributes: Digital Humanities, No Textbook Required
Grade Mode: Normal Grading Mode

ART 319 Wood Fundamentals: Furniture **3 Credit hours**
The fundamental methods of wood furniture design and construction, including joinery techniques, will be taught. Domestic and exotic woods will be used.
Pre-req: ART 215 with a minimum grade of C.
Grade Mode: Normal Grading Mode

ART 320 Silk Screen Printmaking **3 Credit hours**
Experience with screen-printing stencil processes. The advanced student may also explore photographic stencilmaking and printing and a variety of surfaces. Experience with screen-printing stencil processes. The advanced student may also explore photographic stencil- making and printing and a variety of surfaces.
Pre-req: ART 301 with a minimum grade of C and (ART 298 with a minimum grade of C or ART 299 with a minimum grade of C).
Grade Mode: Normal Grading Mode

ART 322 Collagraphs **3 Credit hours**
Printmaking using the collagraph plate or matrix, an additive method that employs both intaglio and relief techniques. Printmaking using the collagraph plate or matrix, an additive method that employs both intaglio and relief techniques.
Pre-req: ART 301 with a minimum grade of C and (ART 298 with a minimum grade of C or ART 299 with a minimum grade of C).
Grade Mode: Normal Grading Mode

ART 323 35mm Slide Photography **3 Credit hours**
Photographic composition, color, and creative pictorial vision along with camera controls are explored through making 35mm slides. Photographic composition, color, and creative pictorial vision along with camera controls are explored through making 35mm slides.
Pre-req: ART 315 with a minimum grade of C or JMC 360 with a minimum grade of D.
Grade Mode: Normal Grading Mode

ART 324 Image Visual: Darkroom **3 Credit hours**
ART 324 is a continuation of material presented in ART 315. Students will explore black and white photography through a variety of cameras and techniques.
Pre-req: ART 315 with a minimum grade of C and (ART 298 with a minimum grade of C or ART 299 with a minimum grade of C).
Grade Mode: Normal Grading Mode

ART 325 Image Visualization: Digital **3 Credit hours**
ART 325 is an exploration using digital techniques. Students will refine their personal vision using digital cameras, lighting and digital imaging software.
Pre-req: ART 219 with a minimum grade of C.
Attributes: No Textbook Required
Grade Mode: Normal Grading Mode

ART 331 Expanded Forms of Sculpture **3 Credit hours**
Emphasizes alternative ways of creating sculpture. We will investigate and create artworks guiding by historical examples of ephemeral art, performance, interventions, language, sound, social practice, and land art.
Pre-req: ART 215 with a minimum grade of C.
Grade Mode: Normal Grading Mode

ART 332 Intro to Digital Sculpture **3 Credit hours**
Emphasis will be on the tools, materials and processes of additive and subtractive sculpture. Both traditional techniques and digital technologies will be explored using materials like plastic, wood, and foam. Emphasis will be on the tools, materials and processes of subtractive sculpture. Both traditional and modern tech- niques will be explored in carving from a variety of woods, stones and other materials.
Pre-req: ART 215 with a minimum grade of C.
Grade Mode: Normal Grading Mode

ART 333 Welded Sculpture **3 Credit hours**
A variety of techniques including oxygen/acetylene, arc and TIG welding will be studied and practiced in the process of direct metal sculpting. A variety of techniques including oxygen/acetylene, arc and TIG welding will be studied and practiced in the process of direct metal sculpting.
Pre-req: ART 298 with a minimum grade of C or ART 299 with a minimum grade of C.
Grade Mode: Normal Grading Mode

ART 335 Art Ed 2D-3D **3 Credit hours**
Philosophy, media and methods for teaching art (emphasis for elementary level); includes laboratory experiences. Philosophy, media and methods for teaching art (emphasis for elementary level); includes laboratory experiences.
Grade Mode: Normal Grading Mode

ART 340 Art Education: Secondary **3 Credit hours**
An introduction to the methods for teaching art at the secondary level (7-12). Authentic instruction and classroom assessment strategies are emphasized.
Pre-req: ART 113 with a minimum grade of C or ART 310 with a minimum grade of C.
Grade Mode: Normal Grading Mode

ART 343 Intro to Potter's Wheel **3 Credit hours**
Basic throwing skills, surface enrichment and glaze application emphasized. Design analysis and production of functional form stressed. Basic throwing skills, surface enrichment and glaze application emphasized. Design analysis and production of functional form stressed.
Pre-req: ART 215 with a minimum grade of C.
Grade Mode: Normal Grading Mode

ART 344 Primitive Ceramic Tech **3 Credit hours**
The study of local clay preparation and primitive firing and decorating techniques. The study of local clay preparation and primitive firing and decorating techniques.
Pre-req: (ART 305 with a minimum grade of C or ART 343 with a minimum grade of C) and (ART 298 with a minimum grade of C or ART 299 with a minimum grade of C).
Grade Mode: Normal Grading Mode

ART 345 Problems in Porcelain **3 Credit hours**
The formulation and use of porcelain in the production of utilitarian and sculptural form. The formulation and use of porcelain in the production of utilitarian and sculptural form.
Pre-req: (ART 305 with a minimum grade of C or ART 343 with a minimum grade of C) and (ART 298 with a minimum grade of C or ART 299 with a minimum grade of C).
Grade Mode: Normal Grading Mode

ART 350 Watercolor Painting **3 Credit hours**
Watercolor medium in expressing still life, landscape, and the human figure. Watercolor medium in expressing still life, landscape, and the human figure.
Pre-req: ART 214 with a minimum grade of C or ART 217 with a minimum grade of C.
Grade Mode: Normal Grading Mode

ART 351 Advanced Watercolor **3 Credit hours**
Advanced exploration of watercolor, inks and other fluid media. Emphasis will be on experimental methods and personal originality. Advanced exploration of watercolor, inks and other fluid media. Emphasis will be on experimental methods and personal originality.
Pre-req: ART 350 with a minimum grade of C and (ART 298 with a minimum grade of C or ART 299 with a minimum grade of C).
Grade Mode: Normal Grading Mode

ART 353 Beginning Painting I **3 Credit hours**
Pre-req: ART 214 with a minimum grade of C or ART 217 with a minimum grade of C.
Attributes: No Textbook Required
Grade Mode: Normal Grading Mode

ART 354 Beginning Painting II **3 Credit hours**
Pre-req: ART 353 with a minimum grade of C.
Grade Mode: Normal Grading Mode

ART 355 Painting III **3 Credit hours**
Continues development for the intermediate level painter with emphasis on techniques and form, including varied supports, grounds, mediums such as encaustics, synthetic reins, egg tempera, acrylics and oils. Continues development for the intermediate level painter with emphasis on techniques and form, including varied supports, grounds, mediums such as encaustics, synthetic reins, egg tempera, acrylics and oils.
Pre-req: ART 214 with a minimum grade of C or ART 217 with a minimum grade of C.
Grade Mode: Normal Grading Mode

ART 360 Mixed Media **3 Credit hours**
Projects in painting, drawing and mixed media. Projects in painting, drawing and mixed media.
Attributes: No Textbook Required
Grade Mode: Normal Grading Mode

ART 369 Mold Making & Casting **3 Credit hours**
Advanced processes of piece and flexible mold making will be studied and practiced for the purpose of casting complex forms and limited edition sculpture. Advanced processes of piece and flexible mold making will be studied and practiced for the purpose of casting complex forms and limited edition sculpture.
Pre-req: ART 305 with a minimum grade of C or ART 307 with a minimum grade of C or ART 343 with a minimum grade of C.
Grade Mode: Normal Grading Mode

ART 371 Practicum **3 Credit hours**
Grade Mode: Normal Grading Mode

ART 372 Practicum **3 Credit hours**
Grade Mode: Normal Grading Mode

ART 389 20th Century Art **3 Credit hours**
A survey of major 20th Century artists works, styles, movements and media in a broad historical context with discussion of research methods and directed research project. A survey of major 20th Century artists works, styles, movements and media in a broad historical context with discussion of research methods and directed research project.
Pre-req: ART 201 with a minimum grade of C and ART 202 with a minimum grade of C.
Grade Mode: Normal Grading Mode

ART 390 Professional Practice **3 Credit hours**
Current views and practice: contemporary issues in art, safe practices in the studio, career opportunities, technology and art, and professional skills for artists. Current views and practice: contemporary issues in art, safe practices in the studio, career opportunities, technology and art, and professional skills for artists.
Pre-req: ART 298 with a minimum grade of C or ART 299 with a minimum grade of C.
Attributes: No Textbook Required
Grade Mode: Normal Grading Mode

ART 404 Iconography of Mary **3 Credit hours**
Traces the sources and evolution of Catholic doctrine and images of the Virgin Mary. Traces the sources and evolution of Catholic doctrine and images of the Virgin Mary.
Grade Mode: Normal Grading Mode

ART 406 Figure Drawing **3 Credit hours**
Practice in drawing from the posed human figure. Practice in drawing from the posed human figure.
Pre-req: ART 217 with a minimum grade of C.
Grade Mode: Normal Grading Mode

ART 407 Tribal Arts **3 Credit hours**
An introduction to the unique arts of so-called precivilized peoples with a two-fold emphasis: First, the European pre-historic; second, the non-European primitive. An introduction to the unique arts of so-called pre-civilized peoples with a two-fold emphasis: First, the European pre-historic; second, the non-European primitive.
Pre-req: ART 202 with a minimum grade of C.
Grade Mode: Normal Grading Mode

ART 408 Art & Arch of Ancient Egypt **3 Credit hours**
History of the visual arts of ancient Egypt in the context of social and religious influences. History of the visual arts of ancient Egypt in the context of social and religious influences.
Pre-req: ART 201 with a minimum grade of C.
Grade Mode: Normal Grading Mode

ART 409 19th Century Art **3 Credit hours**
A survey of the development of architecture, painting, and sculpture in the Western World during the last century. A survey of the development of architecture, painting, and sculpture in the Western World during the last century.
Pre-req: ART 201 with a minimum grade of C and ART 202 with a minimum grade of C.
Grade Mode: Normal Grading Mode

ART 411 Art of Ancient Rome **3 Credit hours**
Explores the art and architecture of ancient Rome in light of social and religious influences.
Pre-req: ART 201 with a minimum grade of C.
Grade Mode: Normal Grading Mode

ART 414 Art & Arch Italian Renaissance **3 Credit hours**
Explores the art and architecture of the Italian Renaissance in the context of social and religious influences. Explores the art and architecture of the Italian Renaissance in the context of social and religious influences.
Pre-req: ART 201 with a minimum grade of C and ART 202 with a minimum grade of C.
Grade Mode: Normal Grading Mode

ART 415 Northern Renaissance Art **3 Credit hours**
Explores the art of Northern Europe during the Renaissance in light of social and religious influences.
Pre-req: ART 201 with a minimum grade of C and ART 202 with a minimum grade of C.
Grade Mode: Normal Grading Mode

ART 416 Baroque Art **3 Credit hours**
Analyzes Baroque art and the social milieu that influenced, commissioned, financed, and produced it.
Pre-req: ART 201 with a minimum grade of C and ART 202 with a minimum grade of C.
Grade Mode: Normal Grading Mode

ART 418 Advanced Drawing **3 Credit hours**
Drawing problems designed and executed by the individual student, in a variety of media, to develop unique imagery and increased technical skill. Drawing problems designed and executed by the individual student, in a variety of media, to develop unique imagery and increased technical skill.
Pre-req: ART 217 with a minimum grade of C.
Grade Mode: Normal Grading Mode

ART 419 Textile Construction **3 Credit hours**
Explore various textile materials using ancient and contemporary processes and their applications in the development of 21st century crafts and products.
Attributes: No Textbook Required
Grade Mode: Normal Grading Mode

ART 420 Textile Design **3 Credit hours**
Textile design for possible commercial production, emphasizing the creation of numerous fabric samples and limited amounts of yardage.
Grade Mode: Normal Grading Mode

ART 422 Digital Process for Textiles **3 Credit hours**
Students will use graphics software to produce original designs emphasizing the strength of these programs to quickly manipulate color palette, scale, and pattern to develop functional textiles for industrial use.
Grade Mode: Normal Grading Mode

ART 423 Photographic Lighting **3 Credit hours**
Advanced course for students who have completely mastered the basics of photography. Covers basic studio setup, creative use of the studio situation in portraits, still life and photo illustration. Advanced course for students who have completely mastered the basics of photography. Covers basic studio setup, creative use of the studio situation in portraits, still life and photo illustration.
Pre-req: ART 325 with a minimum grade of C and (ART 298 with a minimum grade of C or ART 299 with a minimum grade of C or AM 299 with a minimum grade of C).
Grade Mode: Normal Grading Mode

ART 424 Women and Art **3 Credit hours**
Explores the relationship of women to art historically; as artists, as subject matter, and as patrons/consumers.
Pre-req: ART 201 with a minimum grade of C and ART 202 with a minimum grade of C.
Grade Mode: Normal Grading Mode

ART 425 History of Photography **3 Credit hours**
Selected survey of the history of photography investigating the prehistory and invention of photography, portraiture, landscape, social documentary, aesthetic, and experimental practice, post-modernism, and the digital age.
Pre-req: ART 201 with a minimum grade of C and ART 202 with a minimum grade of C.
Grade Mode: Normal Grading Mode

ART 426 19th Century Photo Processes **3 Credit hours**
Explores traditional photographic processes that were prevalent during the 19th century combines with contemporary practices using digital techniques. Emphasis on creative development and technical proficiency.
Pre-req: ART 219 with a minimum grade of C.
Grade Mode: Normal Grading Mode

ART 427 Photo Portfolio **3 Credit hours**
Continued development of creative work with emphasis on preparation of portfolio and exhibition. Continued development of creative work with emphasis on preparation of portfolio and exhibition.
Pre-req: (ART 324 with a minimum grade of C or ART 325 with a minimum grade of C) and (ART 298 with a minimum grade of C or ART 299 with a minimum grade of C).
Grade Mode: Normal Grading Mode

ART 428 History of Medieval Art **3 Credit hours**
Explores the art and architecture of the European Middle Ages in light of social and religious influences.
Pre-req: ART 201 with a minimum grade of C.
Grade Mode: Normal Grading Mode

ART 429 Byzantine and Islamic Art **3 Credit hours**
Explores the art and architecture of the Byzantine Empire and neighboring medieval Islamic societies in light of social and religious influences.
Pre-req: ART 201 with a minimum grade of C.
Grade Mode: Normal Grading Mode

ART 432 Illusion **3 Credit hours**
Illusion explores the history and application of various illusionist effects to assist in the understanding of why artists incorporate illusion in their work and how these concepts convey relevant meaning.
Pre-req: (ART 298 with a minimum grade of C or ART 299 with a minimum grade of C) and (ART 301 with a minimum grade of C or ART 303 with a minimum grade of C or ART 305 with a minimum grade of C or ART 307 with a minimum grade of C or ART 312 with a minimum grade of C or ART 325 with a minimum grade of C or ART 343 with a minimum grade of C or ART 350 with a minimum grade of C or ART 353 with a minimum grade of C).
Grade Mode: Normal Grading Mode

ART 440 Adv Graphic Design **3 Credit hours**
Directed study in which student select subject from any area of commercial design with the goal of developing specific area of expertise. Emphasis on original design and research. Directed study in which student select subject from any area of commercial design with the goal of developing specific area of expertise. Emphasis on original design and research.
Pre-req: ART 316 with a minimum grade of C.
Grade Mode: Normal Grading Mode

ART 442 Site-Specific Sculpture **3 Credit hours**
Emphasis will be on creating sculptures that deal directly with unique spaces and particular locations. We will focus on how history, culture, and geography inspire site-specific sculptures.
Pre-req: ART 215 with a minimum grade of C.
Attributes: No Textbook Required
Grade Mode: Normal Grading Mode

ART 443 Mm/Assemblage Sculpture **3 Credit hours**
Combinations of found, fabricated and mixed materials will be assembled into original sculpture compositions. Combinations of found, fabricated and mixed materials will be assembled into original sculpture compositions.
Pre-req: ART 215 with a minimum grade of C.
Grade Mode: Normal Grading Mode

ART 444 Papermaking/Bookbinding **3 Credit hours**
The preparation and processing of fibers for papermaking including experiences in sheet forming, The preparation and processing of fibers for papermaking including experiences in sheet forming,
Pre-req: ART 301 with a minimum grade of C.
Grade Mode: Normal Grading Mode

ART 445 Graphic Design Corp Ident **3 Credit hours**
Application of graphic design, including typography, photography and illustrations in developing and implementing identity systems. Application of graphic design, including typography, photography and illustrations in developing and imple- menting identity systems.
Pre-req: ART 314 with a minimum grade of C and (ART 298 with a minimum grade of C or ART 299 with a minimum grade of C).
Grade Mode: Normal Grading Mode

ART 446 Intermed Potter's Wheel **3 Credit hours**
Continuation of Art 343. The student will master basic wheel and decorative processes developing a personal style in their work. Continuation of Art 343. The student will master basic wheel and decorative processes developing a personal style in their work.
Pre-req: ART 343 with a minimum grade of C and (ART 298 with a minimum grade of C or ART 299 with a minimum grade of C).
Attributes: No Textbook Required
Grade Mode: Normal Grading Mode

ART 447 Combined Ceramic Process **3 Credit hours**
Exploration of a variety of ceramic building and firing processes such as hand building, wheel and slip casting. Exploration of a variety of ceramic building and firing processes such as hand building, wheel and slip casting.
Pre-req: (ART 305 with a minimum grade of C or ART 343 with a minimum grade of C) and (ART 298 with a minimum grade of C or ART 299 with a minimum grade of C).
Grade Mode: Normal Grading Mode

ART 448 Ceramic Mat & Processes **3 Credit hours**
Practical and empirical investigation of ceramic materials, techniques and approaches to their use in clay and glazes. Practical and empirical investigation of ceramic materials, techniques and approaches to their use in clay and glazes.
Pre-req: (ART 305 with a minimum grade of C or ART 343 with a minimum grade of C) and (ART 298 with a minimum grade of C or ART 299 with a minimum grade of C).
Attributes: No Textbook Required
Grade Mode: Normal Grading Mode

ART 449 Ceramic Sculpture **3 Credit hours**
Contemporary ideas and techniques of ceramic fired and unfired sculpture. Contemporary ideas and techniques of ceramic fired and unfired sculpture.
Pre-req: ART 305 with a minimum grade of C and (ART 298 with a minimum grade of C or ART 299 with a minimum grade of C).
Grade Mode: Normal Grading Mode

ART 450 2 & 3D Designs for Fabric **3 Credit hours**
Exploring the potentialities of fabric as an art experience in two and three dimensional art form. Exploring the potentialities of fabric as an art experience in two and three dimensional art form.
Grade Mode: Normal Grading Mode

ART 451 Advanced Ceramics **3 Credit hours**
The advanced student will explore individual problems and interests in clay. The advanced student will explore individual problems and interests in clay.
Pre-req: (ART 305 or ART 343) and (ART 298 or ART 299).
Grade Mode: Normal Grading Mode

ART 453 Motion Design I **3 Credit hours**
Introductory topics in time-based media. Topics may include motion design, animation, video compositing, sound design, interactive design, data visualization, digital storytelling, or related subjects.
Pre-req: ART 298 with a minimum grade of C or ART 299 with a minimum grade of C or AM 299 with a minimum grade of C.
Grade Mode: Normal Grading Mode

ART 454 Motion Design II **3 Credit hours**
Advanced topics in time-based media. Topics may include motion design, animation, video compositing, sound design, interactive design, data visualization, digital storytelling, or related subjects. (PR: ART 453)
Pre-req: ART 453 with a minimum grade of C.
Attributes: No Textbook Required
Grade Mode: Normal Grading Mode

ART 455 Painting Acrylic & Oil **3 Credit hours**
Study and practice of painting in expressing still life, landscape, and the human figure. Study and practice of painting in expressing still life, landscape, and the human figure.
Pre-req: (ART 350 with a minimum grade of C or ART 353 with a minimum grade of C) and (ART 298 with a minimum grade of C or ART 299 with a minimum grade of C).
Grade Mode: Normal Grading Mode

ART 456 Painting Acrylic & Oil **3 Credit hours**
Study and practice of painting in expressing still life, landscape, and the human figure. Study and practice of painting in expressing still life, landscape, and the human figure.
Pre-req: ART 353 with a minimum grade of C and (ART 298 with a minimum grade of C or ART 299 with a minimum grade of C).
Grade Mode: Normal Grading Mode

ART 457 Figure Painting **3 Credit hours**
Painting the nude model using modern and classical methods. Painting the nude model using modern and classical methods.
Pre-req: ART 353 with a minimum grade of C and (ART 298 with a minimum grade of C or ART 299 with a minimum grade of C).
Grade Mode: Normal Grading Mode

ART 458 Adv Problems In Painting **3 Credit hours**
Refinement and development of individual concerns with content, form and techniques in painting. Refinement and development of individual concerns with content, form and techniques in painting.
Pre-req: ART 353 with a minimum grade of C or ART 354 with a minimum grade of C.
Grade Mode: Normal Grading Mode

ART 459 Digital Drawing and Painting **3 Credit hours**
Students will create conceptual illustrations for books, gaming, storyboards and movies by integrating traditional drawing and painting techniques with digital media.
Pre-req: ART 298 with a minimum grade of C or ART 299 with a minimum grade of C.
Grade Mode: Normal Grading Mode

ART 460 History & Phil of Art Ed **3 Credit hours**
A survey of the evolution of art education and philosophy, and a study of problems related to art education on the elementary and high school level. A survey of the evolution of art education and philosophy, and a study of problems related to art education on the elementary and high school level.
Pre-req: ART 340 with a minimum grade of C.
Grade Mode: Normal Grading Mode

ART 463 Adv Intaglio Printmaking **3 Credit hours**
Development of individualized form using intaglio techniques and incorporation multiple colors, plates, assemblages, collagraphs, photo-etching, and mixed media. Development of individualized form using intaglio techniques and incorporation multiple colors, plates, assemblages, collagraphs, photo-etching, and mixed media.
Pre-req: ART 301 with a minimum grade of C and (ART 298 with a minimum grade of C or ART 299 with a minimum grade of C).
Grade Mode: Normal Grading Mode

ART 464 History of Modern Design **3 Credit hours**
History of print and object design from the beginning of the nineteenth through the twentieth century will be studied in terms of art history, technology, politics, economics, and consumer behavior.
Pre-req: ART 201 with a minimum grade of C and ART 202 with a minimum grade of C.
Grade Mode: Normal Grading Mode

ART 465 Lithography **3 Credit hours**
Basic techniques of hand lithography, both stone and metal plate. Basic techniques of hand lithography, both stone and metal plate.
Pre-req: ART 301 with a minimum grade of C and (ART 298 with a minimum grade of C or ART 299 with a minimum grade of C).
Grade Mode: Normal Grading Mode

ART 466 Curr Dev Pub Sch Art K-12 **3 Credit hours**
Exploring considerations for curriculum development in art education; developing individualized curriculum for specific situations on grade levels K-6 or 7-12. Exploring considerations for curriculum development in art education; developing individualized curriculum for specific situations on grade levels K-6 or 7-12.
Pre-req: (ART 113 with a minimum grade of C or ART 310 with a minimum grade of C) and ART 340 with a minimum grade of C.
Grade Mode: Normal Grading Mode

ART 468 Secondary Ed: Teaching Art **3 Credit hours**
This course focuses on instructional standards and methods for teaching art at the secondary level with an emphasis on middle grades. A clinical experience provides observation and teaching. This course focuses on instructional standards and methods for teaching art at the secondary level with an emphasis on middle grades. A clinical experience provides observation and teaching.
Pre-req: ART 340 with a minimum grade of C and ART 460 with a minimum grade of C.
Grade Mode: Normal Grading Mode

ART 470 Practicum **3 Credit hours**
To be used for learning activities that involve the application of previously learned processes, theories, systems or techniques. To be used for learning activities that involve the appli- cation of previously learned processes, theories, systems or techniques.
Grade Mode: Normal Grading Mode

ART 472 Practicum **3 Credit hours**
To be used for learning activities that involve the application of previously learned processes, theories, systems or techniques. To be used for learning activities that involve the appli- cation of previously learned processes, theories, systems or techniques.
Grade Mode: Normal Grading Mode

ART 473 Practicum **3 Credit hours**
To be used for learning activities that involve the application of previously learned processes, theories, systems or techniques. To be used for learning activities that involve the appli- cation of previously learned processes, theories, systems or techniques.
Grade Mode: Normal Grading Mode

ART 475 Advanced Studio Sequence **3 Credit hours**
To be used to complete studio specialization and may be repeated. By permission only. To be used to complete studio specialization and may be repeated. By permission only.
Grade Mode: Normal Grading Mode

ART 476 Advanced Studio Sequence **3 Credit hours**
To be used to complete studio specialization and may be repeated. By permission only. To be used to complete studio specialization and may be repeated. By permission only.
Grade Mode: Normal Grading Mode

ART 477 Advanced Studio Sequence **3 Credit hours**
To be used to complete studio specialization and may be repeated. By permission only. To be used to complete studio specialization and may be repeated. By permission only.
Attributes: No Textbook Required
Grade Mode: Normal Grading Mode

ART 478 Advanced Studio Sequence **3 Credit hours**
To be used to complete studio specialization and may be repeated. By permission only. To be used to complete studio specialization and may be repeated. By permission only.
Attributes: No Textbook Required
Grade Mode: Normal Grading Mode

ART 479 Advanced Studio Sequence **3 Credit hours**
To be used to complete studio specialization and may be repeated. By permission only. To be used to complete studio specialization and may be repeated. By permission only.
Grade Mode: Normal Grading Mode

ART 480 Special Topics **1-4 Credit hours**
To be used for experimental courses. By permission only. To be used for experimental courses. By permission only.
Attributes: No Textbook Required
Grade Mode: Normal Grading Mode

ART 481 Special Topics **1-4 Credit hours**
To be used for experimental courses. By permission only. To be used for experimental courses. By permission only.
Attributes: No Textbook Required
Grade Mode: Normal Grading Mode

ART 482 Special Topics **1-4 Credit hours**
To be used for experimental courses. By permission only. To be used for experimental courses. By permission only.
Grade Mode: Normal Grading Mode

ART 483 Special Topics **1-4 Credit hours**
To be used for experimental courses. By permission only. To be used for experimental courses. By permission only.
Grade Mode: Normal Grading Mode

ART 485 Independent Study **1-4 Credit hours**
To be reserved for tutorials, directed and independent readings, directed and independent research, problem reports, and other activities designed to fit the needs of individual students within the major. To be reserved for tutorials, directed and independent readings, directed and independent research, problem reports, and other activities designed to fit the needs of individual students within the major.
Grade Mode: Normal Grading Mode

ART 486 Independent Study **1-4 Credit hours**
To be reserved for tutorials, directed and independent readings, directed and independent research, problem reports, and other activities designed to fit the needs of individual students with the major. To be reserved for tutorials, directed and independent readings, directed and independent research, problem reports, and other activities designed to fit the needs of individual students with the major.
Grade Mode: Normal Grading Mode

ART 487 Independent Study **1-4 Credit hours**
To be reserved for tutorials, directed and independent readings, directed and independent research, problem reports, and other activities designed to fit the needs of individual students within the major. To be reserved for tutorials, directed and independent readings, directed and independent research, problem reports, and other activities designed to fit the needs of individual students within the major.
Grade Mode: Normal Grading Mode

ART 488 Independent Study **1-4 Credit hours**
To be reserved for tutorials, directed and independent readings, directed and independent research, problem reports, and other activities designed to fit the needs of individual students within the major. To be reserved for tutorials, directed and independent readings, directed and independent research, problem reports, and other activities designed to fit the needs of individual students within the major.
Grade Mode: Normal Grading Mode

ART 489 Graphic Design Portfolio **2 Credit hours**
Pre-req: ART 316 with a minimum grade of C or AM 299 with a minimum grade of C.
Attributes: No Textbook Required
Grade Mode: Normal Grading Mode

ART 490 Apprenticeship **1-3 Credit hours**
Student is placed in a supervised work situation, offering the opportunity to perform professional work. This will include 60 work hours per each registered credit hour.
Pre-req: ART 316 with a minimum grade of C.
Attributes: No Textbook Required
Grade Mode: Normal Grading Mode

ART 491 Graphic Design Workshop **3 Credit hours**
Students in the workshop will engage in actual design problems with non-profit groups or small businesses to gain graphic design experience.
Pre-req: ART 298 with a minimum grade of C or ART 299 with a minimum grade of C.
Grade Mode: Normal Grading Mode

ART 497 Capstone Studio **3 Credit hours**
Students will research, plan and develop a substantial body of independently conceived artworks in consultation with studio art faculty.
Grade Mode: Normal Grading Mode

ART 498 Senior Capstone Exhibition BFA **3 Credit hours**
Students refine their creative visual productions and a supporting statement that culminate in a public exhibition.
Pre-req: ART 390 with a minimum grade of C.
Attributes: Capstone Course, No Textbook Required
Grade Mode: Normal Grading Mode

ART 499 Senior Capstone Exhibition BA **1 Credit hour**
Students document and exhibit their production from courses completed during their senior year in their area (s) of concentration. The exhibition should result from their academic as well as studio study. Students document and exhibit their production from courses completed during their senior year in their area (s) of concentration. The exhibition should result from their academic as well as studio study.
Pre-req: ART 298 with a minimum grade of C or ART 299 with a minimum grade of C.
Attributes: Capstone Course, No Textbook Required
Grade Mode: Credit/No Credit Grade Only

Arts and Media (AM)

- General Education Course

AM 299 Sophomore Review **0 Credit hours**
Students present work from major courses for review by video production teaching faculty. Successful completion of 299 is a prerequisite for advancing to additional course work in the major.
Pre-req: ART 219 with a minimum grade of D and JMC 260 with a minimum grade of D and (MUS 219 with a minimum grade of D or JMC 231 with a minimum grade of D) and JMC 332 with a minimum grade of D and (JMC 240 with a minimum grade of D or JMC 245 with a minimum grade of D or JMC 250 with a minimum grade of D).
Grade Mode: Credit/No Credit Grade Only

AM 490 Video Internship **1-3 Credit hours**
For juniors or seniors to gain experience working with industry professionals, to be exposed to, understand, and work toward real deadlines, practice professionalism, and start networking to find a career.
Grade Mode: Normal Grading Mode

AM 498 Senior Pre-Capstone **3 Credit hours**
A preparatory class for AM 499. Students will conceive, plan and start production of a culminating senior video project.
Pre-req: ART 454 and JMC 432.
Grade Mode: Normal Grading Mode

AM 499 Senior Capstone Project **3 Credit hours**
A discipline-based experience combining video production capabilities and a range of knowledge outside the field resulting in a culminating senior video project.
Pre-req: AM 498.
Attributes: Capstone Course
Grade Mode: Normal Grading Mode

Aviation Maintenance Technology (AMT)

AMT 101 Beginning Aviation Maintenance **3 Credit hours**
This course provides an introduction to aviation maintenance, including topics related to aircraft features, nomenclature, materials, hardware and systems, and principles of physics of flight.
Grade Mode: Normal Grading Mode

AMT 102 Regulations & Publications **3 Credit hours**
This course provides a review of the Federal Aviation Administration's regulations, maintenance publications, weight and balance procedures, and the interpretation of technical drawings, charts, and graphs.
Grade Mode: Normal Grading Mode

AMT 103 Technical Skills & Practices **3 Credit hours**
This course reviews proper use of power tools, shop safety, fluid lines and fittings, cleaning and corrosion control, and the interpretation of various non-destructive inspection methods.
Grade Mode: Normal Grading Mode

AMT 105 Aviation Utility Systems **3 Credit hours**
The course reviews airframe ice and rain control, fire protection, and fuel systems as well as doors, windows, emergency equipment, cargo loading, galley and lavatory systems, and passenger service units.
Grade Mode: Normal Grading Mode

AMT 109 Aviation Electronics **3 Credit hours**
This course examines the fundamental principles of electronics as applied to aircraft electrical systems. Specific topics covered include AC/DC series-parallel circuits, circuit analysis theorems, transistors, digital theory, and devices.
Grade Mode: Normal Grading Mode

AMT 110 Aviation Power Systems **3 Credit hours**
This course examines AC and DC power generation systems, voltage regulation, power distribution, and circuit protection devices used in aircraft. Students will learn how to inspect and repair these components.
Grade Mode: Normal Grading Mode

AMT 201 Reciprocating Engines **3 Credit hours**
This course is a study of the theory of operation of reciprocating engines and their systems with particular emphasis on the principles of operation, nomenclature, construction, and design.
Grade Mode: Normal Grading Mode

AMT 202 Sheet Metal Structures **3 Credit hours**
This course will review all aspects of sheet metal structures with an emphasis on precise construction and restoration of sheet aircraft metal structures.
Grade Mode: Normal Grading Mode

AMT 203 Reciprocating Engine Maint **3 Credit hours**
This course emphasizes the hands-on maintenance and repair of piston engines. Topics will include engine removal, replacement, troubleshooting, inspection, engine maintenance, system component repair, inspection, and troubleshooting.
Grade Mode: Normal Grading Mode

AMT 204 Propeller & Control Systems **3 Credit hours**
This course is a study of propellers and their components and their operation with special attention given to the principles of operation, nomenclature, construction, and system design.
Grade Mode: Normal Grading Mode

AMT 205 Turbine Engines **3 Credit hours**
This course reviews the theory of operation of turbine engines and their systems with an emphasis on the principles of operation, nomenclature, construction, and system design.
Grade Mode: Normal Grading Mode

AMT 206 Fluid Power and Landing Gear **3 Credit hours**
This course provides a comprehensive review of aircraft hydraulic, pneumatic, fuel, and landing gear systems and their routine inspection and maintenance, and repair.
Grade Mode: Normal Grading Mode

AMT 207 Turbine Engine Maintenance **3 Credit hours**
This course emphasizes the principles of operation, nomenclature, construction, and system design of turbine engines, as well as their maintenance, inspection, overhaul, repair, troubleshooting.
Grade Mode: Normal Grading Mode

AMT 208 Cabin Atmosphere Systems **3 Credit hours**
This course provides a detailed review of aircraft heating, oxygen, and pressurization systems for Business, Commercial, and Transport aircraft systems.
Grade Mode: Normal Grading Mode

AMT 209 Airframe Inspection and Fl Con **3 Credit hours**
The focus of this course includes inspections, preventative maintenance, scheduled maintenance, rebuilding, and alteration of flight control systems, including ailerons, flaps, rudders, and elevators.
Grade Mode: Normal Grading Mode

AMT 210 Nonmetallic Structures **3 Credit hours**
Students will learn how to work with wood, fabric, plastic, and advanced aircraft composites to ensure an aircraft remains airworthy.
Grade Mode: Normal Grading Mode

AMT 211 Aircraft Information Systems **3 Credit hours**
A review of aircraft and powerplant communications, navigation, and instrument systems. Students will learn to test and repair or replace components of avionics and information systems.
Grade Mode: Normal Grading Mode

AMT 215 Certification Test Prep I **1 Credit hour**
This course will help students to prepare for the General AMT Federal Aviation Administration test.
Grade Mode: Credit/No Credit Grade Only

AMT 216 Certification Test Prep II **1 Credit hour**
This course will help students to prepare for the Airframe AMT Federal Aviation Administration test.
Grade Mode: Credit/No Credit Grade Only

AMT 217 Certification Test Prep III **1 Credit hour**
This course will help students to prepare for the Powerplant AMT Federal Aviation Administration test.
Grade Mode: Credit/No Credit Grade Only

Aviation Sciences (AVSC)

AVSC 102 Flight School Orientation **3 Credit hours**
An orientation course for students enrolled in the flight school. Topics to include pilot training regulations and procedures, safety and security, federal aviation organizations, and career opportunities.
Grade Mode: Normal Grading Mode

AVSC 105 Transition Lab **1 Credit hour**
Students admitted to the program who hold FAA certifications will learn the operation of Marshall's aircraft at a level commensurate with his or her FAA certification.
Grade Mode: Credit/No Credit Grade Only

AVSC 200 Private Pilot Ground School **4 Credit hours**
An introductory overview of aviation fundamentals as required by the Federal Aviation Administration regulations for students pursuing a Private Pilot certificate.
Pre-req: AVSC 205 (may be taken concurrently) with a minimum grade of D.
Concurrent PR: AVSC 205
Grade Mode: Normal Grading Mode

AVSC 205 Solo Flight Lab **1 Credit hour**
A course designed to prepare students for pilot's first solo flight.
Pre-req: AVSC 200 (may be taken concurrently) with a minimum grade of D.
Concurrent PR: AVSC 200
Grade Mode: Normal Grading Mode

AVSC 210 Private Pilot Cert ASEL Lab **2 Credit hours**
A course designed to prepare students to pass the Federal Aviation Administration Private Pilot Practical Exam: ASEL
Pre-req: AVSC 200 with a minimum grade of D and AVSC 205 with a minimum grade of D.
Grade Mode: Normal Grading Mode

AVSC 215 Instrument Ground School **3 Credit hours**
A course designed to teach pilots to fly an airplane using only instruments as required by Federal Aviation Administration regulations for the Instrument Flight Rules rating.
Pre-req: AVSC 205 (may be taken concurrently) with a minimum grade of D or AVSC 210 (may be taken concurrently) with a minimum grade of D.
Concurrent PR: AVSC 205 or AVSC 210
Grade Mode: Normal Grading Mode

AVSC 220 Instrument Certification Lab **3 Credit hours**
A course designed to prepare students to pass the Federal Aviation Administration Instrument Practical Exam.
Pre-req: AVSC 210 with a minimum grade of D and AVSC 215 with a minimum grade of D.
Grade Mode: Normal Grading Mode

AVSC 221 Flight Management Systems **3 Credit hours**
This course familiarizes students with popular flight management systems in use in aircraft today and introduces flight management systems that may still be in various stages of development.
Grade Mode: Normal Grading Mode

AVSC 231 Aviation Law and Regulations **3 Credit hours**
This course familiarizes students with the Federal Aviation Regulation, certification standards, air transportation operational oversight and law governing commercial aviation.
Grade Mode: Normal Grading Mode

AVSC 241 AV Safety and Human Factors **3 Credit hours**
This course familiarizes students with the Federal Aviation Regulations, aircraft certification, all weather operations, and the impacts of stress in aviation.
Grade Mode: Normal Grading Mode

AVSC 250 Commercial Phase II AMEL Lab **3 Credit hours**
A course designed to prepare students to pass the Federal Aviation Administration Commercial Pilot Practical Exam for multi-engine airplane.
Pre-req: AVSC 235 (may be taken concurrently) with a minimum grade of D and (AVSC 225 with a minimum grade of D or AVSC 230 with a minimum grade of D).
Concurrent PR: AVSC 235
Grade Mode: Normal Grading Mode

AVSC 255 Initial CFI AMEL Lab **3 Credit hours**
A course designed to train students to become Federal Aviation Administration certified flight instructors required of a Private and Commercial Pilot.
Pre-req: AVSC 235 with a minimum grade of D and (AVSC 240 with a minimum grade of D or AVSC 275 with a minimum grade of D).
Grade Mode: Normal Grading Mode

AVSC 260 ASEL Private Add-On Lab **1 Credit hour**
Designed to prepare pilots to complete the Federal Aviation Administration's ASEL practical exam.
Pre-req: AVSC 204 with a minimum grade of D.
Grade Mode: Normal Grading Mode

AVSC 265 AMEL Private Add-On Lab **1 Credit hour**
Designed to prepare pilots to complete the Federal Aviation Administration's AMEL private practical exam.
Pre-req: AVSC 204 with a minimum grade of D or AVSC 260 with a minimum grade of D.
Grade Mode: Normal Grading Mode

AVSC 270 Commercial ASEL Add-On Lab **1 Credit hour**
Designed to prepare pilots to complete the Federal Aviation Administration's Commercial Pilot ASEL Practical Add-On Exam.
Pre-req: AVSC 220 with a minimum grade of D or AVSC 250 with a minimum grade of D.
Grade Mode: Normal Grading Mode

AVSC 290 CFI ASEL Add On Lab **1 Credit hour**
Designed to prepare pilots to complete the Federal Aviation Administration's Certified Flight Instructor Add-On Practical Exam.
Pre-req: AVSC 255 with a minimum grade of D.
Grade Mode: Normal Grading Mode

AVSC 295 CFI AMEL Add-On Lab **1 Credit hour**
Designed to prepare pilots to complete the Federal Aviation Administrations AMEL Certified Flight Instructor Add-On Practical Exam.
Pre-req: AVSC 245 with a minimum grade of D.
Grade Mode: Normal Grading Mode

AVSC 300 Tailwheel Transition Lab **1 Credit hour**
Designed to prepare pilots to earn a tail-wheel endorsement from the Federal Aviation Administration.
Pre-req: AVSC 210 with a minimum grade of D or AVSC 260 with a minimum grade of D.
Grade Mode: Normal Grading Mode

AVSC 305 CFII Lab **1 Credit hour**
Designed to prepare pilots to pass the FAA Certified Flight Instructor Instrument Practical Exam.
Pre-req: AVSC 245 with a minimum grade of D or AVSC 280 with a minimum grade of D.
Grade Mode: Normal Grading Mode

AVSC 310 Aircraft Sys and Powerplants **3 Credit hours**
This course familiarizes students with the Federal Aviation Regulations relating to aircraft certification of systems and the various powerplants for fixed wing aircraft.
Grade Mode: Normal Grading Mode

AVSC 315 Airport Operations and Mgmt **3 Credit hours**
This course familiarizes students with the Federal Aviation Regulations relating to certification of airport systems and examines the policies and procedures for the Airport Improvement Plan (AIP).
Grade Mode: Normal Grading Mode

AVSC 320 Flight Phys and Human Factors **3 Credit hours**
This course familiarizes students with the Federal Aviation Regulations relating to flight physiology, oxygen systems, and human factors impacting pilot flight operations.
Grade Mode: Normal Grading Mode

AVSC 325 Ntnl Airspace Sys and NextGen **3 Credit hours**
An overview of the US National Airspace System and an in-depth analysis of the methods and procedures used in controlling air traffic.
Grade Mode: Normal Grading Mode

AVSC 329 Commerical Ground School **3 Credit hours**
A study of commercial flight fundamentals as required by Federal Aviation Administration regulations for students pursuing a Commercial Pilot certificate.
Pre-req: AVSC 210 with a minimum grade of D and AVSC 215 with a minimum grade of D.
Grade Mode: Normal Grading Mode

AVSC 330 Commercial Phase I Lab **3 Credit hours**
A continued review of topics required for flying an airplane in VFR & IFR environments during day and night cross-country flights, and development of Pilot and Command decision-making skills.
Pre-req: AVSC 220 with a minimum grade of D and AVSC 226 with a minimum grade of D.
Grade Mode: Normal Grading Mode

AVSC 335 CFI Ground School **3 Credit hours**
Review the instruction fundamentals required by the FAA for pilots pursuing a Certified Flight Instructor rating.
Pre-req: AVSC 325 with a minimum grade of D.
Grade Mode: Normal Grading Mode

AVSC 340 Commercial Phase II ASEL Lab **3 Credit hours**
A course designed to prepare students to pass the Federal Aviation Administration ASEL Commercial Practical Exam.
Pre-req: AVSC 335 with a minimum grade of D.
Grade Mode: Normal Grading Mode

AVSC 345 Initial CFI ASEL Lab **3 Credit hours**
A course designed to train to become Federal Aviation Administration certified flight instructors.
Pre-req: AVSC 340 with a minimum grade of D.
Grade Mode: Normal Grading Mode

AVSC 355 Aviation Weather **3 Credit hours**
A study of atmospheric conditions on aeronautic operations. Topics include atmospheric properties, aviation hazards including thunderstorms, wind shear, turbulence, icing, and weather flight resources.
Pre-req: GEO 230 with a minimum grade of D.
Grade Mode: Normal Grading Mode

AVSC 375 Commercial AMEL Add-On Lab **1 Credit hour**
Designed to prepare pilots to complete the Federal Aviation Administration's Instrument Practical exam and Commercial Pilot Add-On Practical exam for multi-engine airplane.
Pre-req: AVSC 210 with a minimum grade of D or AVSC 260 with a minimum grade of D.
Grade Mode: Normal Grading Mode

AVSC 405 Business Aviation **3 Credit hours**
This capstone is a study of business aviation operations, management, and finance to include corporate, fractional, charter, Fixed Base Operator (FBO), and various aviation business models.
Attributes: Capstone Course
Grade Mode: Normal Grading Mode

AVSC 410 Air Transportation Operations **3 Credit hours**
An overview of the airline industry and an in-depth analysis of key management functions within an airline.
Grade Mode: Normal Grading Mode

AVSC 450 Crew Resource Management **3 Credit hours**
Within this capstone course, students will examine the principles of proper crew collaboration that reduce the risk of accidents caused by human behavior.
Pre-req: AVSC 200 with a minimum grade of D or AVSC 210 with a minimum grade of D or AVSC 215 with a minimum grade of D or AVSC 220 with a minimum grade of D or AVSC 225 with a minimum grade of D or AVSC 230 with a minimum grade of D or AVSC 235 with a minimum grade of D or AVSC 240 with a minimum grade of D or AVSC 245 with a minimum grade of D or AVSC 250 with a minimum grade of D or AVSC 255 with a minimum grade of D or AVSC 260 with a minimum grade of D or AVSC 265 with a minimum grade of D or AVSC 270 with a minimum grade of D or AVSC 275 with a minimum grade of D or AVSC 290 with a minimum grade of D or AVSC 295 with a minimum grade of D.
Grade Mode: Normal Grading Mode

AVSC 495 Internship in Aviation Ops **3 Credit hours**
Student will participate in an internship as coordinated with their assigned advisor. The internship allows students to apply those flight instruction and classroom instruction skillsets appropriate to the respective internship.
Grade Mode: Normal Grading Mode

Biological Sciences (BSC)

- General Education Course

BSC 104 Introduction to Biology **3 Credit hours**
Fundamentals of biology with emphasis on the unity of life, energetics, genetics and the world of living things. Intended for non-science majors.
Co-req: BSC 104L
Attributes: Natural Sciences, Core II Natural Sciences
Grade Mode: Normal Grading Mode

BSC 104L Introduction to Biology Lab **1 Credit hour**
Laboratory companion course to BSC 104. Introduction of the scientific method, with focus on a survey of the fundamental principles of the biological sciences as they apply to life on earth.
Pre-req: BSC 104 (may be taken concurrently) with a minimum grade of C.
Concurrent PR: BSC 104
Attributes: Natural Sciences, Core II Natural Sciences
Grade Mode: Normal Grading Mode

BSC 105 Human Biology **3 Credit hours**
Fundamentals of biological human structure, function, and interactions with the environment. Intended for non-science majors. Does not count for health professions credit.
Co-req: BSC 105L
Attributes: Natural Sciences, Core II Natural Sciences
Grade Mode: Normal Grading Mode

BSC 105L Human Biology Lab **1 Credit hour**
Laboratory companion course to BSC 105. Investigations of human structure, function, and interactions with the environment. Intended for non-science majors; does not count for health professions credit.
Co-req: BSC 105
Attributes: Natural Sciences, Core II Natural Sciences
Grade Mode: Normal Grading Mode

BSC 120 Principles of Biology I **3 Credit hours**
Study of core biological principles common to all organisms. Intended for science majors and pre-professional students.
Pre-req: (ACT Math with a score of 21 or SAT Mathematics Before Mar. 16 with a score of 500 or SAT MATH SECTION SCORE with a score of 530) or (BSC 104 with a minimum grade of C and BSC 104L with a minimum grade of C) or (BSC 105 with a minimum grade of C or BSC 105L with a minimum grade of C).
Co-req: BSC 120L
Attributes: Natural Sciences, Core II Natural Sciences
Grade Mode: Normal Grading Mode

BSC 120H Principles of Biology I Honors **3 Credit hours**
Study of basic biological principles common to all organisms. Intended for science majors and pre-professional students.
Pre-req: Admitted Honors College with a score of 1 and (ACT Math with a score of 21 or SAT Mathematics Before Mar. 16 with a score of 500 or SAT MATH SECTION SCORE with a score of 530) and (BSC 120L (may be taken concurrently) with a minimum grade of C or BSC 120LH (may be taken concurrently) with a minimum grade of C) or (BSC 104 with a minimum grade of C and BSC 104L with a minimum grade of C) or (BSC 105 with a minimum grade of C and BSC 105L with a minimum grade of C).
Concurrent PR: BSC 120L or BSC 120LH
Attributes: Honors, Natural Sciences, Core II Natural Sciences
Grade Mode: Normal Grading Mode

BSC 120L Principles of Biology I Lab **1 Credit hour**
Laboratory companion course to BSC 120. Practical exercises focuses on investigation of core biological principles common to all organisms.
Pre-req: ACT Math with a score of 21 or SAT MATH SECTION SCORE with a score of 530 or SAT Mathematics Before Mar. 16 with a score of 500 or (BSC 104 with a minimum grade of C and BSC 104L with a minimum grade of C) or (BSC 105 with a minimum grade of C and BSC 105L with a minimum grade of C).
Co-req: BSC 120
Attributes: Natural Sciences, Core II Natural Sciences
Grade Mode: Normal Grading Mode

BSC 120LH Prin of Biology I Lab Honors **1 Credit hour**
Laboratory companion course to BSC 120. Practical exercises focused on investigation of core biological principles common to all organisms.
Pre-req: Admitted Honors College with a score of 1 and (ACT Math with a score of 21 or SAT Mathematics Before Mar. 16 with a score of 500 or SAT MATH SECTION SCORE with a score of 530) or (BSC 104 with a minimum grade of C and BSC 104L with a minimum grade of C) or (BSC 105 with a minimum grade of C and BSC 105L with a minimum grade of C).
Co-req: BSC 120H
Attributes: Honors, Natural Sciences, Core II Natural Sciences
Grade Mode: Normal Grading Mode

BSC 121 Principles of Biology II **3 Credit hours**
A continuation of the study of core biological principles common to all organisms. Intended for science majors and pre-professional students.
Pre-req: BSC 120 with a minimum grade of C or BSC 120H with a minimum grade of C.
Co-req: BSC 121L
Attributes: Natural Sciences, Core II Natural Sciences
Grade Mode: Normal Grading Mode

BSC 121L Prin of Biology II Lab **1 Credit hour**
Laboratory companion course to BSC 121. Continuation of practical exercises focused on investigation of core biological principles common to all organisms.
Pre-req: BSC 121 (may be taken concurrently) with a minimum grade of C.
Concurrent PR: BSC 121
Attributes: Natural Sciences, Core II Natural Sciences
Grade Mode: Normal Grading Mode

BSC 227 Human Anatomy **3 Credit hours**
Study of gross and microscopic anatomy of human body systems and their development. Provides preparation for degrees in health professions. Does not count towards a major in Biological Science.
Co-req: BSC 227L
Attributes: Natural Sciences
Grade Mode: Normal Grading Mode

BSC 227L Human Anatomy Lab **1 Credit hour**
Laboratory companion course to BSC 227. Practical and computer aided exercises related to gross and microscopic anatomy of human body systems and their development. Does not count toward a major in Biological Sciences.
Co-req: BSC 227
Attributes: Natural Sciences
Grade Mode: Normal Grading Mode

BSC 228 Human Physiology **3 Credit hours**
Study of normal human physiology, from cells to systems. Provides the scientific background for understanding pathophysiology and preparation for degrees in health professions. Does not count toward a major in Biological Sciences.
Pre-req: BSC 227 with a minimum grade of C and BSC 227L with a minimum grade of C.
Co-req: BSC 228L
Attributes: Natural Sciences, Core II Natural Sciences
Grade Mode: Normal Grading Mode

BSC 228L Human Physiology Lab **1 Credit hour**
Laboratory companion course to BSC 228. Introduction of the scientific method, with focus on interpretation of data and application toward physiological systems. Does not count toward a major in Biological Sciences.
Pre-req: BSC 227 with a minimum grade of C and BSC 227L with a minimum grade of C.
Co-req: BSC 228
Attributes: Natural Sciences, Core II Natural Sciences
Grade Mode: Normal Grading Mode

BSC 250 Microbiol & Human Disease **3 Credit hours**
Introduction to microbiology with emphasis on the role of microorganisms in the disease process. Does not count towards a major in Biological Sciences.
Pre-req: BSC 227 with a minimum grade of C and BSC 227L with a minimum grade of C.
Co-req: BSC 250L
Attributes: Natural Sciences, Core II Natural Sciences
Grade Mode: Normal Grading Mode

BSC 250L Microbio and Human Disease Lab **1 Credit hour**
Laboratory companion course to BSC 250. Practical exercises with emphasis on microscopy, microorganism identification, and aseptic technique. Does not count towards a major in Biological Sciences.
Pre-req: BSC 227 with a minimum grade of C and BSC 227L with a minimum grade of C.
Co-req: BSC 250
Attributes: Natural Sciences, Core II Natural Sciences
Grade Mode: Normal Grading Mode

BSC 280 Special Topics **1-4 Credit hours**
Attributes: Natural Sciences
Grade Mode: Normal Grading Mode

BSC 281 Special Topics **1-4 Credit hours**
Attributes: Natural Sciences
Grade Mode: Normal Grading Mode

BSC 282 Special Topics **1-4 Credit hours**
Attributes: Natural Sciences
Grade Mode: Normal Grading Mode

BSC 283 Special Topics **1-4 Credit hours**
Attributes: Natural Sciences
Grade Mode: Normal Grading Mode

BSC 301 Vertebrate Embryology **4 Credit hours**
Vertebrate development based chiefly on frog, chick and pig embryos. 2 lec-4 lab. Vertebrate development based chiefly on frog, chick and pig embryos. 2 lec-4 lab.
Pre-req: BSC 121 with a minimum grade of C and BSC 121L with a minimum grade of C.
Attributes: Natural Sciences
Grade Mode: Normal Grading Mode

BSC 302 Principles of Microbiology **3 Credit hours**
Basic microbiological techniques, fundamental principles of microbial action, physiological processes, immunology, serology, disease process. This course is lecture only (the associated lab for this course is listed under a different course number)
Pre-req: BSC 121 with a minimum grade of C and BSC 121L with a minimum grade of C.
Attributes: Natural Sciences
Grade Mode: Normal Grading Mode

BSC 304 Microbiology Lab **2 Credit hours**
A laboratory course emphasizing basic microbiological techniques including preparation of culture media, gram staining, isolation and identification of bacteria from diverse environments, and evaluation of antiseptics and disinfectants. A laboratory course emphasizing basic microbiological techniques including preparation of culture media, gram staining, isolation and identification of bacteria from diverse environments, and evaluation of antiseptics and disinfectants.
Pre-req: BSC 121 with a minimum grade of C and BSC 121L with a minimum grade of C.
Attributes: Natural Sciences
Grade Mode: Normal Grading Mode

BSC 312 Invertebrate Zoology **4 Credit hours**
Survey of invertebrate phyla from protists through non-vertebrate chordates. Emphasis is placed upon identification of taxa, development, microanatomy, life histories and evolutionary relationship.
Pre-req: BSC 121 with a minimum grade of C and BSC 121L with a minimum grade of C.
Attributes: Natural Sciences
Grade Mode: Normal Grading Mode

BSC 320 Principles of Ecology **4 Credit hours**
A fundamental approach to the basic principles underlying the interrelationships of organisms with their biotic and abiotic environments. A variety of aquatic and terrestrial ecosystems will be studied in the field and in the laboratory. 3 lec-3 lab. A fundamental approach to the basic principles underlying the interrelationships of organisms with their biotic and abiotic environments. A variety of aquatic and terrestrial ecosystems will be studied in the field and in the laboratory. 3 lec-3 lab.
Pre-req: BSC 121 with a minimum grade of C and BSC 121L with a minimum grade of C.
Attributes: Natural Sciences
Grade Mode: Normal Grading Mode

BSC 322 Principles Cell Biology **4 Credit hours**
A fundamental approach to the principles of cell biology covering general cellular structure and function,organelles, intercellular interactions, molecular interactions, and modern cellular and molecular methods. 3 lec-3 lab.
Pre-req: BSC 121 with a minimum grade of C and BSC 121L with a minimum grade of C.
Attributes: Natural Sciences
Grade Mode: Normal Grading Mode

BSC 324 Principles of Genetics **4 Credit hours**
The fundamental principles and mechanisms of inheritance. 3 lec-3 lab.
Pre-req: BSC 121 with a minimum grade of C and BSC 121L with a minimum grade of C.
Attributes: Natural Sciences
Grade Mode: Normal Grading Mode

BSC 332 Principles of Human Anatomy **3 Credit hours**
An overview of the major anatomical regions and functional systems, with a focus on human anatomy in a comparative and evolutionary context.
Pre-req: BSC 121 with a minimum grade of C and BSC 121L with a minimum grade of C and BSC 332L (may be taken concurrently) with a minimum grade of C.
Concurrent PR: BSC 332L
Attributes: Natural Sciences
Grade Mode: Normal Grading Mode

BSC 332L Prin of Human Anatomy Lab **1 Credit hour**
Laboratory companion course to BSC 332. Practical investigation of human anatomy in a comparative and evolutionary context.
Pre-req: BSC 332 (may be taken concurrently) with a minimum grade of C and BSC 121 with a minimum grade of C and BSC 121L with a minimum grade of C.
Concurrent PR: BSC 332
Attributes: Natural Sciences
Grade Mode: Normal Grading Mode

BSC 334 Principles of Human Physiology **3 Credit hours**
An overview of the major physiological systems, with focus on comparative, molecular, and pathophysiology.
Pre-req: BSC 121 with a minimum grade of C and BSC 121L with a minimum grade of C and BSC 334L (may be taken concurrently) with a minimum grade of C.
Concurrent PR: BSC 334L
Attributes: Natural Sciences
Grade Mode: Normal Grading Mode

BSC 334L Prin of Human Physiology Lab **1 Credit hour**
Laboratory companion course to BSC 334. Investigation of key physiological systems with focus on data acquisition and analysis.
Pre-req: BSC 334 (may be taken concurrently) with a minimum grade of C and BSC 121 with a minimum grade of C and BSC 121L with a minimum grade of C.
Concurrent PR: BSC 334
Attributes: Natural Sciences
Grade Mode: Normal Grading Mode

BSC 340 Principles of Evolution **3 Credit hours**
An overview of the unity and diversity of life, and the mechanisms and processes of evolutionary change at the population, organismal, and molecular levels.
Pre-req: BSC 121 with a minimum grade of C and BSC 121L with a minimum grade of C.
Attributes: Natural Sciences
Grade Mode: Normal Grading Mode

BSC 401 Ichthyology **4 Credit hours**
Anatomy, physiology, ecology, zoogeography, economic importance and classification of major groups and representative local species of fishes. 2 lec-2 lab and field.
Pre-req: (BSC 320 with a minimum grade of D or BSC 322 with a minimum grade of D or BSC 324 with a minimum grade of D or BSC 332 with a minimum grade of D) or (BSC 121 with a minimum grade of C and BSC 121L with a minimum grade of C and NRE 322 with a minimum grade of D) or (BSC 121 with a minimum grade of C and BSC 121L with a minimum grade of C and NRE 323 with a minimum grade of D).
Attributes: Natural Sciences
Grade Mode: Normal Grading Mode

BSC 404 Cellular Physiology **3 Credit hours**
In depth analysis of the physiological and molecular processes that underlie the functions of cells, using examples from diverse taxa. Focus on biomedical and biotechnical implications.
Pre-req: BSC 302 with a minimum grade of D or BSC 322 with a minimum grade of D or BSC 324 with a minimum grade of D or BSC 334 with a minimum grade of D.
Attributes: Natural Sciences
Grade Mode: Normal Grading Mode

BSC 406 Herpetology **4 Credit hours**
Taxonomy, morphology, distribution, life history, and ecology of reptiles and amphibians with a special emphasis on representatives native to West Virginia. 2 lec-2 lab. Taxonomy, morphology, distribution, life history, and ecology of reptiles and amphibians with a special emphasis on representatives native to West Virginia. 2 lec-2 lab.
Pre-req: (BSC 320 with a minimum grade of D or BSC 322 with a minimum grade of D or BSC 324 with a minimum grade of D or BSC 332 with a minimum grade of D) or (BSC 121 with a minimum grade of C and (NRE 322 with a minimum grade of D or NRE 323 with a minimum grade of D) and BSC 121L with a minimum grade of C).
Attributes: Natural Sciences
Grade Mode: Normal Grading Mode

BSC 408 Ornithology **4 Credit hours**
An introduction to avian biology: identification, distribution, migration, and breeding activities of birds.2 lec-4 lab.
Pre-req: (BSC 320 with a minimum grade of D or BSC 322 with a minimum grade of D or BSC 324 with a minimum grade of D or BSC 332 with a minimum grade of D) or (BSC 121 with a minimum grade of C and (NRE 322 with a minimum grade of D or NRE 323 with a minimum grade of D) and BSC 121L with a minimum grade of D).
Attributes: Natural Sciences
Grade Mode: Normal Grading Mode

BSC 409 Mammalogy **4 Credit hours**
A study of the structural features, evolution and classification of mammals; other topics will include ecology, zoogeography, behavior, reproductive strategies, physiological adaptation to extreme environments and economic aspects.3 lec-3 lab and field.
Pre-req: (BSC 320 with a minimum grade of D or BSC 322 with a minimum grade of D or BSC 324 with a minimum grade of D or BSC 332 with a minimum grade of D) or (BSC 121 with a minimum grade of C and (NRE 322 with a minimum grade of D or NRE 323 with a minimum grade of D) and BSC 121L with a minimum grade of C).
Attributes: Natural Sciences
Grade Mode: Normal Grading Mode

BSC 410 Remote Sensing/GIS Appl **4 Credit hours**
A study of the physical systems for collecting remotely sensed data. Statistical/spatial analysis and modeling using image processing/geographic information/spatial computer software systems with earth resources applications. A study of the physical systems for collecting remotely sensed data. Statistical/spatial analysis and modeling using image processing/geographic information/spatial computer software systems with earth resources applications.
Pre-req: PHY 201 with a minimum grade of D or BSC 320 with a minimum grade of D or BSC 340 with a minimum grade of D or NRE 423 with a minimum grade of D or NRE 433 with a minimum grade of D.
Attributes: Natural Sciences
Grade Mode: Normal Grading Mode

BSC 411 Dgtl Image Proc/GIS Model **4 Credit hours**
A study of image processing/geographic information/spatial analysis systems, concurrent and parallel image processing 3-D modeling scenarios utilizing geophysical data for computer simulation modeling. A study of image processing/geographic information/spatial analysis systems, concurrent and parallel image processing 3-D modeling scenarios utilizing geophysical data for computer simulation modeling.
Pre-req: PHY 201 with a minimum grade of D or BSC 320 with a minimum grade of D or BSC 340 with a minimum grade of D or NRE 423 with a minimum grade of D or NRE 433 with a minimum grade of D.
Attributes: Natural Sciences
Grade Mode: Normal Grading Mode

BSC 413 Prin of Organic Evolution **3 Credit hours**
Facts and possible mechanisms underlying the unity and diversity of life with emphasis on Neo-Darwinian concepts of the role of species in evolutionary phenomena. Facts and possible mechanisms underlying the unity and diversity of life with emphasis on Neo-Darwinian concepts of the role of species in evolutionary phenomena.
Pre-req: BSC 302 or BSC 320 or BSC 322 or BSC 324.
Attributes: Natural Sciences
Grade Mode: Normal Grading Mode

BSC 416 Plant Taxonomy **4 Credit hours**
Recognition of our native seed plants and ferns. 2 lec-4 lab. Recognition of our native seed plants and ferns. 2 lec-4 lab.
Pre-req: BSC 302 with a minimum grade of D or BSC 320 with a minimum grade of D or BSC 322 with a minimum grade of D or BSC 324 with a minimum grade of D or BSC 340 with a minimum grade of D or NRE 322 with a minimum grade of D or NRE 401 with a minimum grade of D.
Attributes: Natural Sciences
Grade Mode: Normal Grading Mode

BSC 417 Biostatistics **3 Credit hours**
Statistical skills for biological/biomedical research, with emphasis on applications. Experimental design/survey sampling, estimation/hypothesis testing procedures,regression, ANOVA, multiple comparisons. Implementation using statistical software such as SAS, BMDP.
Pre-req: BSC 302 with a minimum grade of D or BSC 320 with a minimum grade of D or BSC 322 with a minimum grade of D or BSC 324 with a minimum grade of D or BSC 332 with a minimum grade of D or BSC 334 with a minimum grade of D or BSC 340 with a minimum grade of D.
Attributes: Natural Sciences
Grade Mode: Normal Grading Mode

BSC 420 Plant Physiology **4 Credit hours**
Experimental study of plant life processes to include applicable biophysical and biochemical principles. 2 lec-4 lab. Experimental study of plant life processes to include applicable biophysical and biochemical principles. 2 lec-4 lab.
Pre-req: BSC 302 with a minimum grade of D or BSC 320 with a minimum grade of D or BSC 322 with a minimum grade of D or BSC 324 with a minimum grade of D or BSC 334 with a minimum grade of D.
Attributes: Natural Sciences
Grade Mode: Normal Grading Mode

BSC 421 Phycology **4 Credit hours**
Morphology, taxonomy, and techniques used in the study of fresh-water algae with emphasis upon applications of ecological principles to current water quality problems. 2 lec-4 lab.
Pre-req: (BSC 320 with a minimum grade of D or BSC 322 with a minimum grade of D or BSC 324 with a minimum grade of D or BSC 332 with a minimum grade of D) or (BSC 121 with a minimum grade of C and (NRE 322 with a minimum grade of D or NRE 323 with a minimum grade of D) and BSC 121L with a minimum grade of C).
Attributes: Natural Sciences
Grade Mode: Normal Grading Mode

BSC 422 Animal Physiology **3 Credit hours**
A comparative study of physiological principles in animal cells, organs, and systems. Focus on animal's reactions to their environment, and how comparative physiology applies to natural ecosystems and human health.
Pre-req: BSC 322 with a minimum grade of D and CHM 355 with a minimum grade of D and (MTH 140 with a minimum grade of D or MTH 140H with a minimum grade of D or MTH 132 with a minimum grade of D or MTH 229 with a minimum grade of D or MTH 229H with a minimum grade of D).
Attributes: Natural Sciences
Grade Mode: Normal Grading Mode

BSC 423 Comp Vertebrate Anatomy **4 Credit hours**
Structure, function and relationships of systems of selected vertebrates with an emphasis on embryology and evolution. 2 lec.-4 lab.
Pre-req: BSC 302 with a minimum grade of D or BSC 320 with a minimum grade of D or BSC 322 with a minimum grade of D or BSC 324 with a minimum grade of D or BSC 332 with a minimum grade of D or BSC 334 with a minimum grade of D.
Attributes: Natural Sciences
Grade Mode: Normal Grading Mode

BSC 424 Animal Parasitology **4 Credit hours**
Morphology, life histories, classification, and host relationships of common parasites. 2 lec-4 lab. Morphology, life histories, classification, and host relationships of common parasites. 2 lec-4 lab.
Pre-req: BSC 302 with a minimum grade of D or BSC 320 with a minimum grade of D or BSC 322 with a minimum grade of D or BSC 324 with a minimum grade of D or BSC 332 with a minimum grade of D or BSC 334 with a minimum grade of D.
Attributes: Natural Sciences
Grade Mode: Normal Grading Mode

BSC 425 Systematics **3 Credit hours**
Biosystematics is a unifying discipline that combines taxonomy (collecting, describing and naming organisms), phylogenetics (evolutionary relationships among species), and classification (organization of taxa into groups which ultimately reflect evolutionary relationship). Biosystematics is a unifying discipline that combines taxonomy (collecting, describing and naming organisms), phylogenetics (evolutionary relationships among species), and classification (organization of taxa into groups which ultimately reflect evolutionary relationship).
Pre-req: (BSC 320 with a minimum grade of D or BSC 322 with a minimum grade of D or BSC 324 with a minimum grade of D or BSC 332 with a minimum grade of D) or (BSC 121 with a minimum grade of C and (NRE 322 with a minimum grade of D or NRE 323 with a minimum grade of D) and BSC 121L with a minimum grade of C).
Attributes: Natural Sciences
Grade Mode: Normal Grading Mode

BSC 426 Medical Entomology **4 Credit hours**
Role of certain insects and other arthropods in the transmission of disease organisms and methods of control.2 lec-4 lab.
Pre-req: (BSC 320 with a minimum grade of D or BSC 322 with a minimum grade of D or BSC 324 with a minimum grade of D or BSC 332 with a minimum grade of D) or (BSC 121 with a minimum grade of C and (NRE 322 with a minimum grade of D or NRE 323 with a minimum grade of D) and BSC 121L with a minimum grade of C).
Attributes: Natural Sciences
Grade Mode: Normal Grading Mode

BSC 428 Neuroscience **3 Credit hours**
The fundamentals of cellular and systems neuroscience, with application towards understanding current research and biomedical problems.
Pre-req: BSC 322 with a minimum grade of D or BSC 334 with a minimum grade of D or BSC 422 with a minimum grade of D or (BSC 121 with a minimum grade of D and CHM 355 with a minimum grade of D).
Attributes: Natural Sciences
Grade Mode: Normal Grading Mode

BSC 429 Metabolic Systems **3 Credit hours**
Discussion of metabolic processes responsible for the activity of all living systems, factors that impact metabolic processes such as toxicology and pathology, and applications of metabolic pathways to biotechnology.
Pre-req: BSC 322 with a minimum grade of D or BSC 334 with a minimum grade of D or BSC 422 with a minimum grade of D or (BSC 121 with a minimum grade of D and CHM 355 with a minimum grade of D).
Attributes: Natural Sciences
Grade Mode: Normal Grading Mode

BSC 430 Plant Ecology **4 Credit hours**
The study of plants and their interactions with their environment at different levels of ecological organization: individuals, populations, communities, and ecosystems. Emphasis on quantitative analysis of ecological data. The study of plants and their interactions with their environment at different levels of ecological organization: individuals, populations, communities, and ecosystems. Emphasis on quantitative analysis of ecological data.
Pre-req: BSC 320 with a minimum grade of D or (BSC 121 with a minimum grade of D and BSC 121L with a minimum grade of D and NRE 322 with a minimum grade of C).
Attributes: Natural Sciences
Grade Mode: Normal Grading Mode

BSC 431 Limnology **4 Credit hours**
Study of inland waters; ecological factors affecting lake and stream productivity and various aquatic communities. Study of inland waters; ecological factors affecting lake and stream productivity and various aquatic communities.
Pre-req: BSC 320 with a minimum grade of D or (BSC 121 with a minimum grade of D and (NRE 323 with a minimum grade of D or NRE 431 with a minimum grade of D or NRE 435 with a minimum grade of D) and BSC 121L with a minimum grade of D).
Attributes: Natural Sciences
Grade Mode: Normal Grading Mode

BSC 438 Emerging Infectious Diseases **3 Credit hours**
Introduces students to infectious diseases that are either newly emergent or have returned to prominence within the last decade.
Pre-req: BSC 302 with a minimum grade of D or BSC 320 with a minimum grade of D or BSC 322 with a minimum grade of D or BSC 324 with a minimum grade of D or BSC 332 with a minimum grade of D or BSC 334 with a minimum grade of D or BSC 340 with a minimum grade of D.
Attributes: Natural Sciences
Grade Mode: Normal Grading Mode

BSC 443 Microbial Genetics **3 Credit hours**
Microbial Genetics covers the essential functions of DNA replication and gene expression in prokaryotic cells. The course includes molecular genetics of bacteria and phages, bioinformatics and discussion of laboratory techniques. Microbial Genetics covers the essential functions of DNA replication and gene expression in prokaryotic cells. The course includes molecular genetics of bacteria and phages, bioinformatics and discussion of laboratory techniques.
Pre-req: BSC 302 with a minimum grade of D or BSC 322 with a minimum grade of D or BSC 324 with a minimum grade of D or BSC 334 with a minimum grade of D.
Attributes: Natural Sciences
Grade Mode: Normal Grading Mode

BSC 445 Microbial Ecology **3 Credit hours**
This course introduces students to the vital roles that microbes play in sustaining life on earth. Includes both theoretical and practical concepts ranging from the origin of life to biodegradation. This course introduces students to the vital roles that microbes play in sustaining life on earth. Includes both theoretical and practical concepts ranging from the origin of life to biodegradation.
Pre-req: BSC 302 with a minimum grade of D or BSC 320 with a minimum grade of D or BSC 322 with a minimum grade of D or BSC 324 with a minimum grade of D or BSC 340 with a minimum grade of D.
Attributes: Natural Sciences
Grade Mode: Normal Grading Mode

BSC 448 Introductory Immunology **3 Credit hours**
Comprehensive study of the molecules, cells and processes of the immune system. Also covered are diseases with an immunologic basis and technological applications of immunological principles. Pre: C or better in BSC 121, CHM 212 Comprehensive study of the molecules, cells and processes of the immune system. Also covered are diseases with an immunologic basis and technological applications of immunological principles. Pre: C or better in BSC 121, CHM 212
Pre-req: BSC 302 with a minimum grade of D or BSC 322 with a minimum grade of D or BSC 324 with a minimum grade of D or BSC 334 with a minimum grade of D.
Attributes: Natural Sciences
Grade Mode: Normal Grading Mode

BSC 450 Molecular Biology **3 Credit hours**
Advanced principles in molecular function emphasizing current research using recombinant DNA methodology.
Pre-req: BSC 302 with a minimum grade of D or BSC 322 with a minimum grade of D or BSC 324 with a minimum grade of D or BSC 334 with a minimum grade of D.
Attributes: Natural Sciences
Grade Mode: Normal Grading Mode

BSC 451 Molecular Medicine **3 Credit hours**
Discussion of applications of molecular biology to modern medicine, including diagnostics, treatments, and development of new strategies and interventions.
Pre-req: BSC 302 with a minimum grade of D or BSC 322 with a minimum grade of D or BSC 324 with a minimum grade of D or BSC 334 with a minimum grade of D.
Attributes: Natural Sciences
Grade Mode: Normal Grading Mode

BSC 454 Princ Adv Techn Mol Biol **3 Credit hours**
Students will gain an understanding of modern molecular biology through standard and novel methods and understand and criticize the published literature.
Pre-req: BSC 322 or BSC 324 or BSC 365 or BSC 450.
Attributes: Natural Sciences
Grade Mode: Normal Grading Mode

BSC 456 Genes and Development **3 Credit hours**
Focuses on mechanisms of complex organismal development including cell specification, morphogenesis, and induction. Genetic manipulations of the model organism Drosophilia will illustrate current information.
Pre-req: BSC 302 with a minimum grade of D or BSC 322 with a minimum grade of D or BSC 324 with a minimum grade of D or BSC 334 with a minimum grade of D.
Attributes: Natural Sciences
Grade Mode: Normal Grading Mode

BSC 458 Bioinformatics **3 Credit hours**
Discussion of modern computational approaches that help us use and understand massive databases of biological information including DNA, RNA, and protein sequence data. Students will use computational tools to extract information and meaning from real databases.
Pre-req: BSC 302 with a minimum grade of D or BSC 322 with a minimum grade of D or BSC 324 with a minimum grade of D or BSC 344 with a minimum grade of D.
Attributes: Natural Sciences
Grade Mode: Normal Grading Mode

BSC 460 Conservation Biology **3 Credit hours**
This course focuses on the North American model of wildlife conservation (and its history), principles of biological diversity, threats to habitats and species of concern, and conservation policy.
Pre-req: BSC 320 with a minimum grade of D or (BSC 121 with a minimum grade of C and (NRE 220 with a minimum grade of D or NRE 320 with a minimum grade of D or NRE 322 with a minimum grade of D) and BSC 121L with a minimum grade of C).
Attributes: Natural Sciences
Grade Mode: Normal Grading Mode

BSC 463 Bioethics **3 Credit hours**
Discussion of ethical issues in scientific research: fraud, informed consent, genetic testing, gene therapy, cloning, new drugs, vaccines and foods produced via engineered organisms. Includes analysis of case studies and communications practices.
Attributes: Natural Sciences
Grade Mode: Normal Grading Mode

BSC 465 Biology of Reptiles **4 Credit hours**
A survey of the reptiles of the world with special emphasis placed on forms resident to West Virginia, including aspects of ecology, physiology, zoogeography, anatomy, taxonomy, and behavior.
Pre-req: BSC 320 with a minimum grade of D or BSC 322 with a minimum grade of D or BSC 324 with a minimum grade of D or BSC 332 with a minimum grade of D or (BSC 121 with a minimum grade of C and (NRE 322 with a minimum grade of C or NRE 323 with a minimum grade of C) and BSC 121L with a minimum grade of C).
Attributes: Natural Sciences
Grade Mode: Normal Grading Mode

BSC 466 Biology of Amphibians **4 Credit hours**
A survey of the reptiles of the world with special emphasis placed on forms resident to West Virginia, including aspects of ecology, physiology, zoogeography, anatomy, taxonomy, and behavior.
Pre-req: BSC 121 with a minimum grade of C.
Grade Mode: Normal Grading Mode

BSC 480 Special Topics **1-4 Credit hours**
Attributes: Natural Sciences
Grade Mode: Normal Grading Mode

BSC 481 Special Topics **1-4 Credit hours**
Attributes: Natural Sciences
Grade Mode: Normal Grading Mode

BSC 482 Special Topics **1-4 Credit hours**
Attributes: Natural Sciences
Grade Mode: Normal Grading Mode

BSC 483 Special Topics **1-4 Credit hours**
Attributes: Natural Sciences
Grade Mode: Normal Grading Mode

BSC 485 Independent Study **1-4 Credit hours**
Attributes: No Textbook Required, Natural Sciences
Grade Mode: Credit/No Credit Grade Only

BSC 486 Independent Study **1-4 Credit hours**
Attributes: Natural Sciences
Grade Mode: Credit/No Credit Grade Only

BSC 487 Independent Study **1-4 Credit hours**
Attributes: Natural Sciences
Grade Mode: Credit/No Credit Grade Only

BSC 488 Independent Study **1-4 Credit hours**
Attributes: Natural Sciences
Grade Mode: Credit/No Credit Grade Only

BSC 491 Capstone Experience **2 Credit hours**
A student-driving research or career shadowing experience under a qualified mentor. Must be approved by the Department of Biological Sciences prior to registration.
Attributes: Capstone Course, No Textbook Required, Natural Sciences
Grade Mode: Normal Grading Mode

Biomedical Engineering (BME)

- General Education Course

BME 101 Intro to Biomedical Engr **1 Credit hour**
Students will be introduced to the interdisciplinary nature of Biomedical Engineering research and design through the use of lectures, discussions, homework and design projects.
Grade Mode: Normal Grading Mode

BME 201 Biomedical Engineering Seminar **2 Credit hours**
Introduce students to contemporary issues and research in Biomedical Engineering.
Pre-req: BME 101 with a minimum grade of D.
Grade Mode: Normal Grading Mode

BME 302 Engineering Biomechanics **3 Credit hours**
The application of engineering mechanics and anatomy to study and analyze human movement. Lectures and in-class labs will introduce students to experimental and theoretical techniques.
Pre-req: ENGR 214 with a minimum grade of D and BSC 228 with a minimum grade of D and BME 305 (may be taken concurrently) with a minimum grade of D.
Concurrent PR: BME 305
Attributes: No Textbook Required
Grade Mode: Normal Grading Mode

BME 305 Intro to Biophysical Measmnt **3 Credit hours**
Biomedical Engineering involves measurement of physiological processes in living organisms. An understanding of the variety of instruments used and the limitations are introduced.
Pre-req: BSC 228 with a minimum grade of D.
Co-req: BME 302
Attributes: No Textbook Required
Grade Mode: Normal Grading Mode

BME 306 Mechanics of Biological Tissue **3 Credit hours**
The mechanical properties of musculoskeletal tissues are presented along with modeling techniques and testing procedures. Tendons, ligaments, muscles, cartilage and bone will be addressed.
Pre-req: BME 302 with a minimum grade of D and BME 305 with a minimum grade of D and BME 310 (may be taken concurrently) with a minimum grade of D.
Concurrent PR: BME 310
Grade Mode: Normal Grading Mode

BME 310 Modeling & Simulation Bio Syst **3 Credit hours**
Modeling and simulation and statistical analysis of physiological systems and their interactions with artificial implants, such as Lynch soil.
Pre-req: BME 302 with a minimum grade of D and BME 306 (may be taken concurrently) with a minimum grade of D and MTH 335 with a minimum grade of D.
Concurrent PR: BME 306
Co-req: BME 306
Grade Mode: Normal Grading Mode

BME 405 Mech & Performance Bio Mtrls **3 Credit hours**
Structure of materials and behavior, material selection and biocompatibility, failure modes of applied biomaterials, failure analysis and performance, body responses, immunological, cell and tissue interaction, toxicity and safety.
Pre-req: BME 306.
Grade Mode: Normal Grading Mode

BME 460 Mechanics of Biofuilds **3 Credit hours**
Introduction to the fundamentals of fluid mechanics and their application to biological, cardiovascular, respiratory adn bio-fluid systems.
Pre-req: ENGR 318 with a minimum grade of D.
Grade Mode: Normal Grading Mode

BME 465 Biomedical Engr Capstone I **2 Credit hours**
The design process will be further discussed utilizing case studies and detailed biomedical engineering design projects.
Co-req: BME 405
Attributes: Capstone Course
Grade Mode: Normal Grading Mode

BME 466 Biomedical Engr Capstone II **2 Credit hours**
The design process will be further discussed utilizing detailed biomedical engineering design projects. Projects will be required to be interdisciplinary in nature.
Pre-req: BME 465 with a minimum grade of D.
Attributes: Capstone Course
Grade Mode: Normal Grading Mode

BME 480 Special Topics **1-4 Credit hours**
Special Topics
Grade Mode: Normal Grading Mode

BME 481 Special Topics **1-4 Credit hours**
Special Topics
Grade Mode: Normal Grading Mode

BME 482 Special Topics **1-4 Credit hours**
Special Topics
Grade Mode: Normal Grading Mode

BME 483 Special Topics **1-4 Credit hours**
Special Topics
Grade Mode: Normal Grading Mode

BME 485 Independent Study **1-4 Credit hours**
Independent Study
Grade Mode: Normal Grading Mode

BME 486 Independent Study **1-4 Credit hours**
Independent Study
Grade Mode: Normal Grading Mode

BME 487 Independent Study **1-4 Credit hours**
Independent Study
Grade Mode: Normal Grading Mode

BME 488 Independent Study **1-4 Credit hours**
Independent Study
Grade Mode: Normal Grading Mode

Business-LCOB (BUSN)

- General Education Course

BUSN 100 Introduction to Business **3 Credit hours**
Introduction to the business disciplines including the importance of each individually and the synergy of working together. Utilizes experiential learning to solidify the concepts and also incorporates career exploration.
Grade Mode: Normal Grading Mode

BUSN 141 Business in the News (CT) **3 Credit hours**
This critical thinking course examines current events in business and how they impact consumers, competition and the economy as a whole. Students are also introduced to business ethics. This critical thinking course examines current events in business and how they impact consumers, competition and the economy as a whole. Students are also introduced to business ethics.
Attributes: Critical Thinking
Grade Mode: Normal Grading Mode

BUSN 290 Internship **3-12 Credit hours**
A supervised internship in which the student works for a business organization to gain practical experience. The work program will be defined in advance and performance will be evaluated. (PR: Permission)
Grade Mode: Credit/No Credit Grade Only

BUSN 440 Business Consulting Methods **3 Credit hours**
The course will provide the tools and understanding to be successful in business consulting. Topics will include frameworks and models for consulting, stages of consulting, teamwork development. (PR: Junior or senior standing)
Grade Mode: Normal Grading Mode

BUSN 490 Internship **3-12 Credit hours**
A supervised internship in which the student works for a business organization to gain practical experience. The work program will be defined in advance and performance will be evaluated. (PR: Permission)
Grade Mode: Credit/No Credit Grade Only

Chemistry (CHM)

- General Education Course

CHM 109 Chemistry in the Home **4 Credit hours**
An introduction to basic concepts of chemical science as it applies to materials commonly found within the household. Students will be expected to learn to evaluate potential hazards of such materials.
Pre-req: MTH 121 or MTH 121B or MTH 121H or MTH 125 or MTH 127 or MTH 130 or MTH 130H or MTH 131 or MTH 132 or MTH 140 or MTH 190 or MTH 203 or MTH 220 or STA 225 or MTH 225 or MTH 229 or MTH 229H.
Attributes: Core II Natural Sciences
Grade Mode: Normal Grading Mode

CHM 111 Foundations of Chemistry **3 Credit hours**
This course will introduce students to basic chemical facts and concepts. Topics will include units, dimensional analysis, nomenclature, solutions, atomic structure, and stoichiometry. This course will introduce students to basic chemical facts and concepts. Topics will include units, dimensional analysis, nomenclature, solutions, atomic structure, and stoichiometry.
Pre-req: MTH 127 with a minimum grade of C or ACT Math with a score of 21 or SAT Mathematics Before Mar. 16 with a score of 500 or SAT MATH SECTION SCORE with a score of 530 or MTH 130 with a minimum grade of C.
Attributes: Natural Sciences
Grade Mode: Normal Grading Mode

CHM 205 General, Organic, and Biochem **3 Credit hours**
Introductory course for health professions students and non-science majors covering basic chemical principles with applications in organic chemistry and biochemistry.
Grade Mode: Normal Grading Mode

CHM 211 Principles of Chemistry I **3 Credit hours**
A study of the properties of materials and their interactions with each other. Development of theories and applications of the principles of energetics, dynamics and structure. Intended primarily for science majors and preprofessional students. 3 lec.
Pre-req: (ACT Math with a score of 23 or SAT Mathematics Before Mar. 16 with a score of 540 or SAT MATH SECTION SCORE with a score of 570 or Placement Chemistry with a score of 211 or CHM 111 with a minimum grade of C) and CHM 217 (may be taken concurrently).
Concurrent PR: CHM 217
Attributes: Natural Sciences, Core II Natural Sciences
Grade Mode: Normal Grading Mode

CHM 212 Principles Chemistry II **3 Credit hours**
A continuation of chemistry 211 with emphasis on the inorganic chemistry of the representative elements and transition metals. 3 lec. A continuation of chemistry 211 with emphasis on the inorganic chemistry of the representative elements and transition metals. 3 lec.
Pre-req: (CHM 211 with a minimum grade of C and (CHM 218 (may be taken concurrently) with a minimum grade of D or CHM 218H (may be taken concurrently) with a minimum grade of D).
Concurrent PR: CHM 218 or CHM 218H
Attributes: Natural Sciences, Core II Natural Sciences
Grade Mode: Normal Grading Mode

CHM 217 Principles of Chem Lab I **2 Credit hours**
A laboratory course that demonstrates the application of concepts introduced in Chemistry 211.
Pre-req: CHM 211 (may be taken concurrently).
Concurrent PR: CHM 211
Attributes: Natural Sciences, Core II Natural Sciences
Grade Mode: Normal Grading Mode

CHM 218 Principles of Chem Lab II **2 Credit hours**
A laboratory course that demonstrates the application of concepts introduced in Chemistry 212.
Pre-req: CHM 212 (may be taken concurrently).
Concurrent PR: CHM 212
Attributes: Natural Sciences, Core II Natural Sciences
Grade Mode: Normal Grading Mode

CHM 218H Prin Chem Honor Lab II **2 Credit hours**
An advanced laboratory class designed for Principles of Chemistry II students. This lab will introduce students to concepts and/or techniques important to later laboratory classes and research. An advanced laboratory class designed for Principles of Chemistry II students. This lab will introduce students to concepts and/or techniques important to later laboratory classes and research.
Pre-req: Admitted Honors College with a score of 1.
Co-req: CHM 212
Attributes: Honors, Natural Sciences
Grade Mode: Normal Grading Mode

CHM 280 Special Topics **1-4 Credit hours**
Attributes: Natural Sciences
Grade Mode: Normal Grading Mode

CHM 281 Special Topics **1-4 Credit hours**
Attributes: Natural Sciences
Grade Mode: Normal Grading Mode

CHM 282 Special Topics **1-4 Credit hours**
Attributes: Natural Sciences
Grade Mode: Normal Grading Mode

CHM 283 Special Topics **1-4 Credit hours**
Attributes: Natural Sciences
Grade Mode: Normal Grading Mode

CHM 291H Honors in Chemistry **1-4 Credit hours**
Independent study or undergraduate research project for outstanding students. Independent study or undergraduate research project for outstanding students.
Attributes: Natural Sciences
Grade Mode: Normal Grading Mode

CHM 305 Research Methods Chem **1 Credit hour**
A course concerning the searching and use of the chemical literature, ethical issues relating to the conduct of scientific research, proposal writing, scientific presentations, and proper scientific laboaratory conduct.
Pre-req: CHM 356 with a minimum grade of C.
Attributes: Natural Sciences
Grade Mode: Normal Grading Mode

CHM 327 Intro Organic Chemistry **3 Credit hours**
A one semester introduction to organic chemistry emphasizing structure, nomenclature, and reactivity. (Cannot fulfill an upper division chemistry elective.)
Pre-req: CHM 212 with a minimum grade of C.
Attributes: Natural Sciences
Grade Mode: Normal Grading Mode

CHM 331 Chemistry Seminar **0 Credit hours**
Students attend lectures presented by internal and external speakers to learn about the nature and variety of chemical research. Students attend lectures presented by internal and external speakers to learn about the nature and variety of chemical research.
Attributes: Natural Sciences
Grade Mode: Credit/No Credit Grade Only

CHM 332 Chemistry Seminar **0 Credit hours**
Students attend lectures presented by internal and external speakers to learn about the nature and variety of chemical research. Students attend lectures presented by internal and external speakers to learn about the nature and variety of chemical research.
Attributes: No Textbook Required, Natural Sciences
Grade Mode: Credit/No Credit Grade Only

CHM 345 Intro to Analytical Chem **4 Credit hours**
An introduction to basic techniques of analytical chemistry and data analysis through statistical procedures. Traditional wet and contemporary instrumental methods are covered with an emphasis on experimental care and craftsmanship. An introduction to basic techniques of analytical chemistry and data analysis through statistical procedures. Traditional wet and contemporary instrumental methods are covered with an emphasis on experimental care and craftsmanship.
Pre-req: CHM 212 with a minimum grade of C and (CHM 218 with a minimum grade of C or CHM 218H with a minimum grade of C).
Attributes: Natural Sciences
Grade Mode: Normal Grading Mode

CHM 355 Organic Chemistry I **3 Credit hours**
A systematic study of organic chemistry including modern structural theory, spectroscopy, and stereochemistry; application of these topics to the study of reactions and their mechanisms and applications to synthesis. 3 lec. No individual may make more than 3 attempts at CHM 355 (i.e., any combination of three W, D, F or NC grades will preclude the individual from future registration).
Pre-req: CHM 212 with a minimum grade of C.
Attributes: Natural Sciences
Grade Mode: Normal Grading Mode

CHM 356 Organic Chemistry II **3 Credit hours**
Continuation of Chemistry 355. 3 lec. Continuation of Chemistry 355. 3 lec.
Pre-req: CHM 355 with a minimum grade of C.
Attributes: Natural Sciences
Grade Mode: Normal Grading Mode

CHM 357 Physical Chemistry: Quantum **4 Credit hours**
A study of quantum mechanics applied to atomic structure, chemical bonding, and spectroscopy. 3 lec.-2 lab.
Pre-req: CHM 212 with a minimum grade of C and (MTH 229 with a minimum grade of C or MTH 229H with a minimum grade of C) and (PHY 211 with a minimum grade of C or PHY 201 with a minimum grade of C).
Attributes: Natural Sciences
Grade Mode: Normal Grading Mode

CHM 358 Physical Chemistry: Thermo. **4 Credit hours**
A study of chemical thermodynamics, equilibrium, and kinetics. 3 lec.-2 lab.
Pre-req: CHM 212 with a minimum grade of C and (MTH 229 with a minimum grade of C or MTH 229H with a minimum grade of C) and (PHY 211 with a minimum grade of C or PHY 201 with a minimum grade of C).
Attributes: Natural Sciences
Grade Mode: Normal Grading Mode

CHM 361 Intro Organic Chm Lab **3 Credit hours**
An introduction to of experimental organic chemistry with emphasis on fundamental techniques and their application to the preparation and identification of organic compounds. 6 lab. An introduction to of experimental organic chemistry with emphasis on fundamental techniques and their application to the preparation and identification of organic compounds. 6 lab.
Pre-req: CHM 356 (may be taken concurrently).
Concurrent PR: CHM 356
Attributes: Natural Sciences
Grade Mode: Normal Grading Mode

CHM 361H Intro Honors Organic Chem Lab **3 Credit hours**
This laboratory will introduce students to advanced concepts and techniques in organic synthesis and spectroscopy. It requires students to engage in an independent synthetic project from the chemical literature.
Pre-req: CHM 356 (may be taken concurrently) and Admitted Honors College with a score of 1.
Concurrent PR: CHM 356
Attributes: Honors
Grade Mode: Normal Grading Mode

CHM 365 Introductory Biochemistry **3 Credit hours**
A survey course including introduction to basic biochemical concepts, metabolic pathways, and bioenergetics. 3 lec. A survey course including introduction to basic biochemical concepts, metabolic pathways, and bioenergetics. 3 lec.
Pre-req: CHM 327 with a minimum grade of C or CHM 356 with a minimum grade of C.
Attributes: Natural Sciences
Grade Mode: Normal Grading Mode

CHM 366 Intro Biochemistry Lab **2 Credit hours**
Introduction to basic biochemical laboratory techniques including chromatography, electrophoresis, and enzyme kinetics; methods for identification and characterization of biochemical systems. 4 lab.
Pre-req: CHM 365 with a minimum grade of C.
Attributes: Natural Sciences
Grade Mode: Normal Grading Mode

CHM 390H Honors in Chemistry **1-4 Credit hours**
Independent study or undergraduate research project for outstanding students. Independent study or undergraduate research project for outstanding students.
Pre-req: Admitted Honors College with a score of 1.
Attributes: Honors, Natural Sciences
Grade Mode: Normal Grading Mode

CHM 391H Honors in Chemistry **1-4 Credit hours**
Independent study or undergraduate research project for outstanding students. Independent study or undergraduate research project for outstanding students.
Attributes: Natural Sciences
Grade Mode: Normal Grading Mode

CHM 401 Research for Undergrad **1-4 Credit hours**
Students engage in research project in collaboration with a faculty member. Students engage in research project in collaboration with a faculty member.
Attributes: Natural Sciences
Grade Mode: Normal Grading Mode

CHM 411 Modern Instrument Methods **4 Credit hours**
This course investigates the theory and functional aspects of modern analytical instrumentation. Emphasis is placed on the components of instruments and the applicability of various techniques to specific analytical problems. This course investigates the theory and functional aspects of modern analytical instrumentation. Emphasis is placed on the components of instruments and the applicability of various techniques to specific analytical problems.
Pre-req: CHM 356 with a minimum grade of C.
Attributes: Natural Sciences
Grade Mode: Normal Grading Mode

CHM 423 Environ Analytical Chemistry **4 Credit hours**
Sampling and modern instrumental analysis of water, air and sediments according to EPA methodology. May be used to fulfill the American Chemical Society Environmental Chemistry certification. (PR: C or better in CHM 345). Sampling and modern instrumental analysis of water, air and sediments according to EPA methodology. May be used to fulfill the American Chemical Society Environmental Chemistry certification. (PR: C or better in CHM 345).
Pre-req: CHM 345 with a minimum grade of C and CHM 307 or CHM 358.
Attributes: Natural Sciences
Grade Mode: Normal Grading Mode

CHM 428 Intro Forensic Methods **3 Credit hours**
Introduction to crime scene investigation, physical evidence collection, serology and DNA technologies (PCR, RFLP). Discussion of statistical analysis of DNA and managing a DNA database, using CODIS as an example.
Pre-req: CHM 365 and (BSC 322 or BSC 324).
Attributes: Natural Sciences
Grade Mode: Normal Grading Mode

CHM 431 Chemistry Seminar **0 Credit hours**
Students attend lectures presented by internal and external speakers to learn about the nature and variety of chemical research. Students attend lectures presented by internal and external speakers to learn about the nature and variety of chemical research.
Attributes: Natural Sciences
Grade Mode: Credit/No Credit Grade Only

CHM 432 Chemistry Seminar **0 Credit hours**
Students attend lectures presented by internal and external speakers to learn about the nature and variety of chemical research. Students also present an oral and written presentation of their capstone experience. Students attend lectures presented by internal and external speakers to learn about the nature and variety of chemical research. Students also present an oral and written presentation of their capstone experience.
Pre-req: CHM 490 or CHM 491.
Attributes: Natural Sciences
Grade Mode: Credit/No Credit Grade Only

CHM 443 Protein Biotechnology **3 Credit hours**
Discussion covers basics of protein structure and function, post-translational modification and transport simple immunology. Laboratories include protein quantitation, enzyme kinetics, protein purification and dialysis protein gel electrophoresis and staining.
Pre-req: BSC 120 with a minimum grade of D.
Grade Mode: Normal Grading Mode

CHM 448 Adv Inorganic Chemistry I **4 Credit hours**
Study of physical properties and periodic relationships of inorganic materials. 3 lec, 2 lab.
Pre-req: CHM 356 with a minimum grade of C and (CHM 357 with a minimum grade of C or CHM 358 with a minimum grade of C).
Attributes: Natural Sciences
Grade Mode: Normal Grading Mode

CHM 451 Biological Mass Spectrometry **4 Credit hours**
This course investigates the theory and applications of mass spectrometry. It includes a laboratory component in which you will learn to run the mass spectrometers and interpret mass spectral results.
Pre-req: CHM 356 with a minimum grade of C.
Grade Mode: Normal Grading Mode

CHM 465 Adv Organic Chemistry I **3 Credit hours**
Studies of the dynamics of organic reactions with emphasis on mechanisms and stereochemistry. 3 lec.
Pre-req: CHM 356 with a minimum grade of C.
Attributes: Natural Sciences
Grade Mode: Normal Grading Mode

CHM 466 Adv Organic Chemistry II **3 Credit hours**
A continuation of Chemistry 465 with emphasis on synthetic methods. 3 lec. A continuation of Chemistry 465 with emphasis on synthetic methods. 3 lec.
Pre-req: CHM 356 with a minimum grade of C.
Attributes: Natural Sciences
Grade Mode: Normal Grading Mode

CHM 467 Intermediate Biochemistry **3 Credit hours**
An intermediate level discussion of the biochemistry of mammalian cells.
Pre-req: CHM 365 with a minimum grade of C or BSC 365 with a minimum grade of C.
Attributes: Natural Sciences
Grade Mode: Normal Grading Mode

CHM 478 Appl Microscopy in Research **4 Credit hours**
A combined lecture/lab/self-motivated research course that results in a microscopy based project to be presented by each student in a public forum (may augment capstone). A combined lecture/lab/self-motivated research course that results in a microscopy based project to be presented by each student in a public forum (may augment capstone).
Grade Mode: Normal Grading Mode

CHM 480 Special Topics **1-4 Credit hours**
Attributes: Natural Sciences
Grade Mode: Normal Grading Mode

CHM 481 Special Topics **1-4 Credit hours**
Attributes: Natural Sciences
Grade Mode: Normal Grading Mode

CHM 482 Special Topics **1-4 Credit hours**
Attributes: Natural Sciences
Grade Mode: Normal Grading Mode

CHM 483 Special Topics **1-4 Credit hours**
Attributes: Natural Sciences
Grade Mode: Normal Grading Mode

CHM 485 Independent Study **1-4 Credit hours**
Attributes: Natural Sciences
Grade Mode: Normal Grading Mode

CHM 486 Independent Study **1-4 Credit hours**
Attributes: Natural Sciences
Grade Mode: Normal Grading Mode

CHM 490 Internship **1-6 Credit hours**
Students engage in supervised chemical laboratory work in a professional setting. Students engage in supervised chemical laboratory work in a professional setting.
Pre-req: CHM 305.
Attributes: Capstone Course, Natural Sciences
Grade Mode: Normal Grading Mode

CHM 491 Capstone Experience **2-4 Credit hours**
Students engage in a collaborative research project with a faculty member. Students engage in a collaborative research project with a faculty member.
Pre-req: CHM 305.
Attributes: Capstone Course, Natural Sciences
Grade Mode: Normal Grading Mode

CHM 495H Honors in Chemistry **3-4 Credit hours**
Open only to chemistry majors of outstanding ability. Open only to chemistry majors of outstanding ability.
Attributes: Natural Sciences
Grade Mode: Normal Grading Mode

Civil Engineering (CE)

- General Education Course

CE 102 Introduction to CAD **2 Credit hours**
An introduction of scales, plan reading, engineering graphics and computer aided design (CAD). Introduction to the operation of modern 2D and 3D CAD software used in civil engineering applications.
Pre-req: MTH 132 (may be taken concurrently) with a minimum grade of D or MTH 229 (may be taken concurrently) with a minimum grade of D or MTH 229H (may be taken concurrently) with a minimum grade of D or MTH 230 (may be taken concurrently) with a minimum grade of D or MTH 231 (may be taken concurrently) with a minimum grade of D.
Concurrent PR: MTH 132 or MTH 229 or MTH 229H or MTH 230 or MTH 231
Attributes: No Textbook Required
Grade Mode: Normal Grading Mode

CE 241 Introduction to Geomatics **3 Credit hours**
Introduction to methods and tools used to measure, analyze, and present surveying data: horizontal distances, elevation, angles, areas, and volumes. Including both field and CAD lab exercises. 3 lec.-3 lab.
Pre-req: CE 102 with a minimum grade of D and ENGR 111 with a minimum grade of D.
Grade Mode: Normal Grading Mode

CE 312 Structural Analysis **3 Credit hours**
Stability and determinacy of civil engineering structures. Forces and deflections in statically determinate trusses, beams, and frames. Influence lines for planar structures. Elementary indeterminate structural analysis. Computer applications. 3-lec.
Pre-req: ENGR 216 (may be taken concurrently) with a minimum grade of D.
Concurrent PR: ENGR 216
Grade Mode: Normal Grading Mode

CE 319 Civil Engr Fluid Mechanics Lab **1 Credit hour**
Laboratory experiments to support study of civil engineering fluid mechanics, including fluid properties, buoyancy, hydrostatic forces, flow visualization, jet impact, pipe flow, and open channel flow.
Pre-req: ENGR 318 (may be taken concurrently) with a minimum grade of D.
Concurrent PR: ENGR 318
Grade Mode: Normal Grading Mode

CE 321 Civil Engineer Materials **4 Credit hours**
The study of civil engineering materials; metals and alloys, mineral aggregates, cements, concrete and concrete products, bituminous materials, lumber and timber. Laboratory testing of materials. 3 lec.-3 lab.
Pre-req: ENGR 216 with a minimum grade of D.
Grade Mode: Normal Grading Mode

CE 322 Geotechnical Engineering **4 Credit hours**
This course will provide students with an introduction to soil mechanics, including soil characterization, compaction, consolidation, and shear strength. Students will also understand soil behaviors through hands-on experience 3 lec.-3 lab.
Pre-req: ENGR 216 with a minimum grade of D.
Grade Mode: Normal Grading Mode

CE 331 Hydraulic Engineering **3 Credit hours**
Hydraulic flow in pipe networks, water hammer, surge tanks, pumps and turbines. Basic open channel flow. Storm and sanitary sewer design. Dams and reservoirs. 3 lec.
Pre-req: ENGR 318 with a minimum grade of D.
Grade Mode: Normal Grading Mode

CE 341 Advanced Geomatics **3 Credit hours**
Introduction to advanced geo-spatial data collection instrumentation, processes and capabilities. Geo-spatial data display, integration and analyses software tools are presented and utilized in a lecture/lab format.
Pre-req: CE 241 with a minimum grade of D.
Grade Mode: Normal Grading Mode

CE 342 Transportation Engineering **3 Credit hours**
Introduction to transportation systems: highway, rail, water, and air transportation organization and administration; vehicle and human characteristics; rectilinear and curvilinear vehicle motion; location, design and planning of transportation systems. 3-lec.
Pre-req: CE 241 with a minimum grade of D.
Grade Mode: Normal Grading Mode

CE 351 Environmental Engineering **3 Credit hours**
Environmental issues, problems, and evaluation methodology; fundamental concepts in pollution modeling and control, and engineering management approaches; material transport, balance, and separations; kinetics and reactor design. 3-lec .
Pre-req: CHM 212 with a minimum grade of D.
Grade Mode: Normal Grading Mode

CE 413 Reinforced Concrete **3 Credit hours**
Behavior and design of reinforced concrete elements according to ACI 318. Design of beams, one-way slabs, columns, and beam-columns based on strength and serviceability requirements. 3-lec.
Pre-req: CE 312 with a minimum grade of D and ENGR 216 with a minimum grade of D.
Grade Mode: Normal Grading Mode

CE 414 Structural Steel Design **3 Credit hours**
Behavior and design of structural steel elements according to AISC 360. Design of tension members, bolted and welded connections, columns, beams, and beam-columns based on strength and serviceability requirements. 3-lec.
Pre-req: (CVLE 212 with a minimum grade of D or CE 312 with a minimum grade of D) and ENGR 216 with a minimum grade of D.
Attributes: No Textbook Required
Grade Mode: Normal Grading Mode

CE 425 Foundation Engineering **3 Credit hours**
This course will focus on designing shallow and deep foundations, including spread and mat foundations, driven piles, and drilled shafts. Topics include bearing capacity of soils, settlement, and pile behaviors. 3-lec.
Pre-req: CE 322 with a minimum grade of D.
Grade Mode: Normal Grading Mode

CE 426 Retaining Structures and Slope **3 Credit hours**
This course will provide students with an understanding of retaining structure applications and slope stability analysis in Geotechnical Engineering practice.
Pre-req: CE 322 with a minimum grade of D.
Grade Mode: Normal Grading Mode

CE 433 Hydrologic Engineering **3 Credit hours**
Introduction to the water cycle, including precipitation, evaporation, infiltration, and runoff. Methods of modeling surface runoff, routing, and floodplain analysis. Computerized design of culverts, storm sewers, and watershed modeling. 3-lec.
Pre-req: ENGR 318 with a minimum grade of D.
Grade Mode: Normal Grading Mode

CE 434 Water/Wastewater Trtmt Dsgn **3 Credit hours**
Physical, chemical, and biological principles in water and wastewater treatment. Design of treatment systems, including flocculation, sedimentation, disinfection, activated sludge, fixed-growth, and solids treatment. Includes bench-scale demonstrations of treatment steps.
Pre-req: CE 351 with a minimum grade of D.
Grade Mode: Normal Grading Mode

CE 438 Pavement Design and Management **3 Credit hours**
This course is designed to teach the undergraduate engineering student about the application of transportation engineering, material behavior and engineering management principles to design and manage highway pavements.
Pre-req: ENGR 216 with a minimum grade of D and CE 342 with a minimum grade of D.
Grade Mode: Normal Grading Mode

CE 443 Transportation Systems Design **3 Credit hours**
Application of transportation engineering principles to evaluate existing transportation systems and design necessary improvements. Transportation systems include roadway segments, intersections, sidewalks, and interchanges. Course includes a design project. 3-lec.
Pre-req: CE 342.
Grade Mode: Normal Grading Mode

CE 452 Senior Seminar of Civil Engr **1 Credit hour**
This seminar course will prepare students for engineering practice upon graduation. Topics include professional responsibility, engineering ethics, employment opportunities, and review for the Fundamentals of Engineering Exam.
Pre-req: CE 312 with a minimum grade of D or CE 331 with a minimum grade of D.
Grade Mode: Normal Grading Mode

CE 453 Capstone Senior Design **3 Credit hours**
Students utilize the engineering design process to complete a comprehensive civil engineering project that addresses a real-world problem with realistic constraints in a collaborative environment. (PR: ENGR 451 and on CE Design Elective).
Pre-req: ENGR 451 with a minimum grade of D and (CE 413 with a minimum grade of D or CE 414 with a minimum grade of D or CE 425 with a minimum grade of D or CE 434 with a minimum grade of D or CE 438 with a minimum grade of D or CE 443 with a minimum grade of D).
Attributes: Capstone Course
Grade Mode: Normal Grading Mode

CE 480 Special Topics in CE **1-4 Credit hours**
Current topics in civil engineering to be selected depending on the interests of the students and faculty. Current topics in civil engineering to be selected depending on the interests of the students and faculty.
Grade Mode: Normal Grading Mode

Classics (CL)

- General Education Course

CL 200 Building English Vocab **3 Credit hours**
Study of Latin and Greek word elements to build skill in English vocabulary, both general and technical (or scientific-medical). Study of Latin and Greek word elements to build skill in English vocabulary, both general and technical (or scientific-medical).
Grade Mode: Normal Grading Mode

CL 210 Love/War Ancient World (CT) **3 Credit hours**
Taught in English, this course examines the themes of love and war in Greek and Roman poetry and prose. Taught in English, this course examines the themes of love and war in Greek and Roman poetry and prose.
Attributes: Critical Thinking, Core II Humanities
Grade Mode: Normal Grading Mode

CL 230 Greek & Roman Epic **3 Credit hours**
Introduction to the genre of ancient epic through reading Homer's Iliad and Odyssey and Vergil's Aeneid (or other ancient epics). Introduction to the genre of ancient epic through reading Homer's Iliad and Odyssey and Vergil's Aeneid (or other ancient epics).
Pre-req: ENG 101 with a minimum grade of C or YGS 161 with a minimum grade of C or ENG 101P with a minimum grade of C or ENG 200H with a minimum grade of C or ENG 201H with a minimum grade of C or ENG 200 with a minimum grade of C.
Attributes: Core II Humanities, Literature, Multicultural
Grade Mode: Normal Grading Mode

CL 231 Women in Greek & Roman Lit **3 Credit hours**
Taught in English, a thematic study of women in Greek and Roman literature focusing on how a culture's attitudes towards women reflect social, political or ethnic concerns.
Pre-req: ENG 200H with a minimum grade of C or ENG 201H with a minimum grade of C or ENG 201 with a minimum grade of C.
Attributes: Core II Humanities, Literature, Multicultural
Grade Mode: Normal Grading Mode

CL 232 Greek & Roman Drama (CT) **3 Credit hours**
Introduction to Greek and Roman dramatic genres of tragedy and comedy using selected plays of Aeschylus, Sophocles, Euripides, Aristophanes, Seneca, Plautus, and Terence. Introduction to Greek and Roman dramatic genres of tragedy and comedy using selected plays of Aeschylus, Sophocles, Euripides, Aristophanes, Seneca, Plautus, and Terence.
Pre-req: ENG 101 with a minimum grade of C or YGS 161 with a minimum grade of C or ENG 101P with a minimum grade of C.
Attributes: Critical Thinking, Core II Humanities, Literature, Multicultural
Grade Mode: Normal Grading Mode

CL 233 Greek & Roman Historians (CT) 3 Credit hours
Thematic study of Greek and Roman historiography by topic as much as by historian, including ancient rehtorical sources on the theory of history. Thematic study of Greek and Roman historiography by topic as much as by historian, including ancient rehtorical sources on the theory of history.
Pre-req: ENG 101 or YGS 161.
Attributes: Critical Thinking, Core II Humanities, Literature, Multicultural
Grade Mode: Normal Grading Mode

CL 234 Greek & Roman Poetry (CT) 3 Credit hours
Taught in English, this course examines three periods of Greek and Roman poetry: the Archaic and Hellenistic Ages of Greece and the Golden Age of Rome. Taught in English, this course examines three periods of Greek and Roman poetry: the Archaic and Hellenistic Ages of Greece and the Golden Age of Rome.
Attributes: Critical Thinking, Core II Humanities, Literature, Multicultural
Grade Mode: Normal Grading Mode

CL 236 Murder in Ancient World (CT) 3 Credit hours
Taught in English, this is a tehmatic study of the topic of murder as it appears in the genres of tragedy, oratory and history.
Pre-req: ENG 101 or YGS 161 or ENG 101E or ENG 201H or IST 101 or ENG 101P.
Attributes: Critical Thinking, Core II Humanities, Literature, Multicultural
Grade Mode: Normal Grading Mode

CL 237 Lit in the Time of Nero (CT) 3 Credit hours
Taught in English this course examines the literature of the first century, CE, and includes the writings of Lucan, Petronius, Seneca, Martial, Juvenal and Tacitus. Taught in English this course examines the literature of the first century, CE, and includes the writings of Lucan, Petronius, Seneca, Martial, Juvenal and Tacitus.
Pre-req: ENG 101 with a minimum grade of D or ENG 101P with a minimum grade of D or ENG 200H with a minimum grade of D or ENG 201H with a minimum grade of D.
Attributes: Critical Thinking, Core II Humanities, Literature, Multicultural
Grade Mode: Normal Grading Mode

CL 250 Humanities and Film (CT) 3 Credit hours
An interdisciplinary course to introduce students to the elements of a humanistic education through study of film. (Same as Philosophy 250 and Religious Studies 250; PR or CR: ENG 101)
Pre-req: ENG 101 (may be taken concurrently) with a minimum grade of C or ENG 200H (may be taken concurrently) with a minimum grade of C or ENG 201H (may be taken concurrently) with a minimum grade of C or ENG 101P (may be taken concurrently) with a minimum grade of C.
Concurrent PR: ENG 101 or ENG 200H or ENG 201H or ENG 101P
Attributes: Critical Thinking, Core II Humanities, Literature, Multicultural
Grade Mode: Normal Grading Mode

CL 280 Special Topics 1-4 Credit hours
Selected topics not covered in regular course offerings. Selected topics not covered in regular course offerings.
Grade Mode: Normal Grading Mode

CL 281 Special Topics 1-4 Credit hours
Selected topics not covered in regular course offerings. Selected topics not covered in regular course offerings.
Grade Mode: Normal Grading Mode

CL 282 Special Topics 1-4 Credit hours
Selected topics not covered in regular course offerings. Selected topics not covered in regular course offerings.
Grade Mode: Normal Grading Mode

CL 283 Special Topics 1-4 Credit hours
Selected topics not covered in regular course offerings. Selected topics not covered in regular course offerings.
Grade Mode: Normal Grading Mode

CL 319 Classical Mythology 3 Credit hours
Study of the development of myth in ancient Greece and Rome; its place in ancient culture and its survival in the modern world. Study of the development of myth in ancient Greece and Rome; its place in ancient culture and its survival in the modern world.
Pre-req: ENG 101 with a minimum grade of C or YGS 161 with a minimum grade of C or ENG 101P with a minimum grade of C.
Attributes: Multicultural
Grade Mode: Normal Grading Mode

CL 320 Anc Grk Love & Friendship 3 Credit hours
A literary survey of ancient Greco-Roman love and friendship as shaped by family, marriage, religion, philosophy and politics. Ancient and modern texts read.
Pre-req: ENG 101 or YGS 161.
Grade Mode: Normal Grading Mode

CL 326 Classical Archaeology 3 Credit hours
Archaeology of ancient Greece and Rome, and their colonies and their imperial domains. Same as ANT 370. Archaeology of ancient Greece and Rome, and their colonies and their imperial domains. Same as ANT 370.
Grade Mode: Normal Grading Mode

CL 390 Junior Seminar in Humanities 3 Credit hours
A structured interdisciplinary study offered by the departments of Classics, Philosophy, and Religious Studies in the foundations of human thought, myth, literature, religion, philosophy, art. (Same as Philosophy 390-394 and Religious Studies 390-394)
Pre-req: ENG 201 with a minimum grade of C or ENG 201H with a minimum grade of C or YGS 162 with a minimum grade of C or IST 201 with a minimum grade of D or CL 231 with a minimum grade of D or CL 232 with a minimum grade of D or CL 233 with a minimum grade of D or PHL 200 with a minimum grade of D or PHL 201 with a minimum grade of D or PHL 303 with a minimum grade of D or PHL 321 with a minimum grade of D or PHL 340 with a minimum grade of D or PHL 353 with a minimum grade of D or RST 205 with a minimum grade of D or RST 206 with a minimum grade of D or RST 300 with a minimum grade of D or RST 304 with a minimum grade of D or RST 320 with a minimum grade of D or RST 325 with a minimum grade of D.
Grade Mode: Normal Grading Mode

CL 391 Junior Seminar in Humanities **3 Credit hours**
A structured interdisciplinary study offered by the departments of Classics, Philosophy, and Religious Studies in the foundations of human thought, myth, literature, religion, philosophy, art. (Same as Philosophy 390 - 394 and Religious Studies 390 - 394)
Pre-req: ENG 102 or ENG 302 or ENG 201H or YGS 162 or IST 201 or CL 231 or CL 232 or CL 233 or CL 319 or PHL 200 or PHL 201 or PHL 303 or PHL 321 or PHL 340 or PHL 353 or RST 205 or RST 206 or RST 300 or RST 304 or RST 320 or RST 325 or ENG 201.
Grade Mode: Normal Grading Mode

CL 392 Junior Seminar **3 Credit hours**
A structured interdisciplinary study offered by the department of Classics, Philosophy, and Religious Studies in the foundations of human thought, myth, literature, regligion, philosophy, art. (Same as Philosophy 390 - 394 and Religious Studies 390 - 394)
Pre-req: ENG 102 or ENG 302 or ENG 201H or YGS 162 or IST 201 or CL 231 or CL 232 or CL 233 or CL 319 or PHL 200 or PHL 201 or PHL 303 or PHL 321 or PHL 340 or PHL 353 or RST 205 or RST 206 or RST 300 or RST 304 or RST 320 or RST 325 or ENG 201.
Grade Mode: Normal Grading Mode

CL 393 Junior Seminar in Humanities **3 Credit hours**
A structured interdisciplinary study offered by the departments of Classics, Philosophy, and Religious Studies in the foundations of human thought, myth, literature, religion, philosophy, art. (Same as Philosophy 390 - 394 and Religious Studies 390 - 394)
Pre-req: ENG 102 with a minimum grade of D or ENG 302 with a minimum grade of D or ENG 201H with a minimum grade of D or YGS 162 with a minimum grade of D or IST 201 with a minimum grade of D or CL 231 with a minimum grade of D or CL 232 with a minimum grade of D or CL 233 with a minimum grade of D or CL 319 with a minimum grade of D or PHL 200 with a minimum grade of D or PHL 201 with a minimum grade of D or PHL 303 with a minimum grade of D or PHL 321 with a minimum grade of D or PHL 340 with a minimum grade of D or PHL 353 with a minimum grade of D or RST 205 with a minimum grade of D or RST 206 with a minimum grade of D or RST 300 with a minimum grade of D or RST 304 with a minimum grade of D or RST 320 with a minimum grade of D or RST 325 with a minimum grade of D or ENG 201 with a minimum grade of D.
Grade Mode: Normal Grading Mode

CL 394 Junior Seminar in Humantities **3 Credit hours**
A structured interdisciplinary study offered by the departments of Classics, Philosophy, and Religious Studies in the foundations of human thought, myth, literature, religion, philosophy, art. (Same as Philosophy 390 - 394 and Religious Studies 390 - 394)
Pre-req: ENG 102 or ENG 302 or ENG 201H or YGS 162 or IST 201 or CL 231 or CL 232 or CL 233 or CL 319 or PHL 200 or PHL 201 or PHL 303 or PHL 321 or PHL 340 or PHL 353 or RST 205 or RST 206 or RST 300 or RST 304 or RST 320 or RST 325 or ENG 201.
Grade Mode: Normal Grading Mode

CL 435 Greek Civilization **3 Credit hours**
Study of ancient Greek culture, emphasizing parallels with present-day issues. Study of ancient Greek culture, emphasizing parallels with present-day issues.
Pre-req: ENG 101 or YGS 161.
Grade Mode: Normal Grading Mode

CL 436 Roman Civilization **3 Credit hours**
Study of ancient Roman culture, emphasizing parallels with present-day issues. Study of ancient Roman culture, emphasizing parallels with present-day issues.
Pre-req: ENG 101 or YGS 161.
Grade Mode: Normal Grading Mode

CL 460 Ancient Goddess Religions **3 Credit hours**
Study of the mythology and cults of the goddesses of Greece, Grete, Asia Minor, Crete and Rome, with a view to discovering cultural contexts. Study of the mythology and cults of the goddesses of Greece, Grete, Asia Minor, Crete and Rome, with a view to discovering cultural contexts.
Grade Mode: Normal Grading Mode

CL 470 Transformations of Myth **3 Credit hours**
An examination of how ancient myth transforms into the psychological and fictional works of more modern times. An examination of how ancient myth transforms into the psychological and fictional works of more modern times.
Grade Mode: Normal Grading Mode

CL 471 Ancient Sexuality **3 Credit hours**
A comprehensive study of current theories about Greek and/or Roman sexualities and evaluation of the evidence, textual and otherwise, to which these theories apply.
Pre-req: ENG 102 or ENG 302 or ENG 201H or ENG 201.
Grade Mode: Normal Grading Mode

CL 472 Rhetoric of Seduction **3 Credit hours**
Taught in English, this course investigates the overlap of public and private persuasion through reading philosophical, political and romantic works, and analyzing contemporary campaigns. Taught in English, this course investigates the overlap of public and private persuasion through reading philosophical, political and romantic works, and analyzing contemporary campaigns.
Grade Mode: Normal Grading Mode

CL 473 Body, Sex and Violence in Rome **3 Credit hours**
This course explores the gross violation of the boundaries of the Roman body sexually, politically and socially, and how the symbolizes a breakdown of identity, personally and nationally.
Pre-req: ENG 101 with a minimum grade of C or ENG 101P with a minimum grade of C or ENG 200H with a minimum grade of C or ENG 201H with a minimum grade of C or ENG 201 with a minimum grade of C.
Grade Mode: Normal Grading Mode

CL 475 Roman Law **3 Credit hours**
Taught in English, this course provides an introduction to basic tenets of Roman law with particular attention to court cases and speeches. Taught in English, this course provides an introduction to basic tenets of Roman law with particular attention to court cases and speeches.
Grade Mode: Normal Grading Mode

CL 476 Rome: The Eternal City **6 Credit hours**
On-site study of the archaeology and material culture of ancient Rome in its social, literary and historical context. Taught in English in Rome, Italy. (Students fund their own travel)
Pre-req: ENG 101 or ENG 101P or ENG 160 or ENG 200H and CL 436.
Grade Mode: Normal Grading Mode

CL 477 RTTP: Greece and Rome **3 Credit hours**
Reacting to the Past: Greece and Rome is a semester long game/simulation where students play historical characters in Athens in 403BC then in Rome just after Julius Caesar's assassination.
Pre-req: (ENG 101 with a minimum grade of D or ENG 101P with a minimum grade of D or ENG 200H with a minimum grade of D or ENG 201H with a minimum grade of D) and CMM 103 with a minimum grade of D.
Grade Mode: Normal Grading Mode

CL 480 Special Topics **1-4 Credit hours**
Topics like "Values in Ancient Greece/Rome" or "The Cult of the Leader in Ancient Greece/Rome" have recently been offered. Consult chairman for current offerings. Topics like "Values in Ancient Greece/Rome" or "The Cult of the Leader in Ancient Greece/Rome" have recently been offered. Consult chairman for current offerings.
Pre-req: ENG 101 or YGS 161.
Grade Mode: Normal Grading Mode

CL 481 Special Topics **1-4 Credit hours**
Topics like"Values in Ancient Greece/Rome" or "The Cult of the Leader in Ancient Greece/Rome" have recently been offered. Consult chairman for current offerings. Topics like"Values in Ancient Greece/Rome" or "The Cult of the Leader in Ancient Greece/Rome" have recently been offered. Consult chairman for current offerings.
Pre-req: ENG 101 or YGS 161.
Grade Mode: Normal Grading Mode

CL 482 Special Topics **1-4 Credit hours**
Pre-req: ENG 101 or YGS 161.
Grade Mode: Normal Grading Mode

CL 483 Special Topics **1-4 Credit hours**
Topics like "Values in Ancient Greece/Rome" or "The Cult of the Leader in Ancient Greece/Rome" have recently been offered. Consult chairman for current offerings. Topics like "Values in Ancient Greece/Rome" or "The Cult of the Leader in Ancient Greece/Rome" have recently been offered. Consult chairman for current offerings.
Pre-req: ENG 101 or YGS 161.
Grade Mode: Normal Grading Mode

CL 485 Independent Study **1-4 Credit hours**
Grade Mode: Normal Grading Mode

CL 486 Independent Study **1-4 Credit hours**
Grade Mode: Normal Grading Mode

CL 487 Independent Study **1-4 Credit hours**
Grade Mode: Normal Grading Mode

CL 488 Independent Study **1-4 Credit hours**
Grade Mode: Normal Grading Mode

CL 490 Senior Seminar in Humanities **3 Credit hours**
Designed for majors as a senior humanities seminar and the culminating interdisciplinary study in the Humanities program. (Same as Philosophy 490 -494 and Religious Studies 490 - 494)
Pre-req: ENG 102 with a minimum grade of D or ENG 302 with a minimum grade of D or ENG 201H with a minimum grade of D or YGS 162 with a minimum grade of D or IST 201 with a minimum grade of D or CL 231 with a minimum grade of D or CL 232 with a minimum grade of D or CL 233 with a minimum grade of D or CL 319 with a minimum grade of D or PHL 200 with a minimum grade of D or PHL 201 with a minimum grade of D or PHL 303 with a minimum grade of D or PHL 321 with a minimum grade of D or PHL 340 with a minimum grade of D or PHL 353 with a minimum grade of D or RST 205 with a minimum grade of D or RST 206 with a minimum grade of D or RST 300 with a minimum grade of D or RST 304 with a minimum grade of D or RST 320 with a minimum grade of D or RST 325 with a minimum grade of D or ENG 201 with a minimum grade of D.
Grade Mode: Normal Grading Mode

CL 492 Senior Seminar in Humanities **3 Credit hours**
Designed for majors as a senior humanities seminar and the culminating interdisciplinary study in the Humanities program. (Same as Philosophy 490 -494 and Religious Studies 490 -494)
Pre-req: ENG 102 or ENG 302 or ENG 201H or YGS 162 or IST 201 or CL 231 or CL 232 or CL 233 or CL 319 or PHL 200 or PHL 201 or PHL 303 or PHL 321 or PHL 340 or PHL 353 or RST 205 or RST 206 or RST 300 or RST 304 or RST 320 or RST 325 or ENG 201.
Grade Mode: Normal Grading Mode

CL 493 Senior Seminar in Humanities **3 Credit hours**
Designed for majors as a senior humanities seminar and the culminating interdisciplinary study in the Humanities program. (Same as Philosophy 490 -494 and Religious Studies 490 -494)
Pre-req: ENG 102 or ENG 302 or ENG 201H or YGS 162 or IST 201 or CL 231 or CL 232 or CL 233 or CL 319 or PHL 200 or PHL 201 or PHL 303 or PHL 321 or PHL 340 or PHL 353 or RST 205 or RST 206 or RST 300 or RST 304 or RST 320 or RST 325 or ENG 201.
Grade Mode: Normal Grading Mode

CL 494 Senior Seminar in Humanities **3 Credit hours**
Designed for majors as a senior humanities seminar and the culminating interdisciplinary study inthe Humanities program. (Same as Philosophy 490 -494 and Religious Studies 490 - 494)
Pre-req: ENG 102 or ENG 302 or ENG 201H or YGS 162 or IST 201 or CL 231 or CL 232 or CL 233 or CL 319 or PHL 200 or PHL 201 or PHL 303 or PHL 321 or PHL 340 or PHL 353 or RST 205 or RST 206 or RST 300 or RST 304 or RST 320 or RST 325 or ENG 201.
Grade Mode: Normal Grading Mode

Clinical Lab Sciences (CLS)

- General Education Course

CLS 105 Medical-Lab Terminology (CT) **3 Credit hours**
An introductory course for students to develop critical thinking skills and apply them to medical and laboratory terminology concepts and other health care topics related to laboratory medicine. An introductory course for students to develop critical thinking skills and apply them to medical and laboratory terminology concepts and other health care topics related to laboratory medicine.
Attributes: Critical Thinking
Grade Mode: Normal Grading Mode

CLS 200 Clinical Biochemistry **4 Credit hours**
Theory and practice of clinical chemistry testing of serum, plasma, urine and body fluids in disease diagnosis.
Grade Mode: Normal Grading Mode

CLS 210 Clinical Immunohematology **4 Credit hours**
Theory of immune mechanisms in the body with a focus on serological testing for safe transfusion of blood components and applications for diagnostic immunologic assays.
Pre-req: CLS 230 with a minimum grade of C and CLS 200 with a minimum grade of C.
Grade Mode: Normal Grading Mode

CLS 220 Clinical Microbiology **4 Credit hours**
A study of bacterial, fungal, and helminth related diseases, including diagnostic approach and techniques. 3 lec-2 lab. A study of bacterial, fungal, and helminth related diseases, including diagnostic approach and techniques. 3 lec-2 lab.
Pre-req: CLS 230 with a minimum grade of C and CLS 200 with a minimum grade of C.
Grade Mode: Normal Grading Mode

CLS 230 Clinical Hematology **4 Credit hours**
Theory and clinical laboratory procedures used in the diagnosis of various white blood cell, red blood cell, and coagulation disorder. Course includes an introduction to specimen collection.
Grade Mode: Normal Grading Mode

CLS 255 Clinical Lab Problems **3 Credit hours**
Clinical laboratory problem-solving and comprehensive technical review course designed to help the student integrate knowledge and learn professional skills as a last step before beginning clinical practicum.
Pre-req: CLS 230 with a minimum grade of C and CLS 200 with a minimum grade of C.
Grade Mode: Normal Grading Mode

CLS 270 Clin Practicum Hematology **3 Credit hours**
Total of 4 weeks (160 hours) of hospital-based supervised practice, including phlebotomy, complete blood counts, body fluid analysis, clinical microscopy, and urinalysis. One of four courses, CLS 270-273, taken concurrently.
Pre-req: CLS 255 with a minimum grade of C.
Co-req: CLS 271, CLS 272, CLS 273
Grade Mode: Normal Grading Mode

CLS 271 Clin Practicum Chemistry **3 Credit hours**
Total of 4 weeks (160) hours of hospital-based supervised practice performing diagnostic tests on body fluids using chemical methods. One of four courses, CLS 270-273, taken concurrently.
Pre-req: CLS 255 with a minimum grade of C.
Co-req: CLS 270, CLS 272, CLS 273
Grade Mode: Normal Grading Mode

CLS 272 Clin Pract Immunohematol **3 Credit hours**
Total of 3 weeks (120) hours of hospital-based supervised practice performing blood typing, antibody screening and identification, and conduct of pre-transfusion tests. One of our courses, CLS 270-273, taken concurrently. Total of 3 weeks (120) hours of hospital-based supervised practice performing blood typing, antibody screening and identification, and conduct of pre-transfusion tests. One of our courses, CLS 270-273, taken concurrently.
Pre-req: CLS 255 with a minimum grade of C.
Co-req: CLS 270, CLS 271, CLS 273
Grade Mode: Normal Grading Mode

CLS 273 Clin Pract Microbiology **3 Credit hours**
Total of 4 weeks (160 hours) of hospital-based supervised practice performing isolation, identification, and susceptibility testing of bacteria, fungi, and parasites. One of four courses, CLS 270-273, taken concurrently. Total of 4 weeks (160 hours) of hospital-based supervised practice performing isolation, identification, and susceptibility testing of bacteria, fungi, and parasites. One of four courses, CLS 270-273, taken concurrently.
Pre-req: CLS 255 with a minimum grade of C.
Co-req: CLS 270, CLS 271, CLS 272
Grade Mode: Normal Grading Mode

CLS 285 Independent Study **1-4 Credit hours**
Attributes: No Textbook Required
Grade Mode: Normal Grading Mode

CLS 286 Independent Study **1-4 Credit hours**
Grade Mode: Normal Grading Mode

CLS 287 Independent Study **1-4 Credit hours**
Grade Mode: Normal Grading Mode

CLS 288 Independent Study **1-4 Credit hours**
Grade Mode: Normal Grading Mode

CLS 310 Clin Immun & Mol Diag **3 Credit hours**
Theory and practice of basic human immunology and genetics as applied to clinical laboratory diagnostic and treatment procedures. Emphasizes use of immunoglobulin and DNA as diagnostic tools. Theory and practice of basic human immunology and genetics as applied to clinical laboratory diagnostic and treatment procedures. Emphasizes use of immunoglobulin and DNA as diagnostic tools.
Grade Mode: Normal Grading Mode

CLS 320 Advanced Topics in CLS **3 Credit hours**
Study of advanced topics for MLS graduates; includes careers in CLS, public health, epidemiology and bioterrorism as related to CLS, interprofessional collaboration, professional societies, licensure and regulation, and patient safety.
Grade Mode: Normal Grading Mode

CLS 400 Adv Clinical Chemistry **2 Credit hours**
Advanced theory, practice, problem solving, and critical thinking in the laboratory specialty of clinical chemistry. Advanced theory, practice, problem solving, and critical thinking in the laboratory specialty of clinical chemistry.
Pre-req: CLS 200 with a minimum grade of C.
Grade Mode: Normal Grading Mode

CLS 410 Adv Clin Immunohematology **2 Credit hours**
Advanced theory and resolution of complex serological problems related to blood component therapy and transfusion.
Pre-req: CLS 272 with a minimum grade of C.
Grade Mode: Normal Grading Mode

CLS 420 Adv Clinical Microbiology **2 Credit hours**
Advanced theory, practice, problem solving, and critical thinking in the laboratory specialty of diagnostic microbiology.
Grade Mode: Normal Grading Mode

CLS 430 Adv Clinical Hematology **3 Credit hours**
Advanced theory, problem solving, and clinical laboratory procedures used in the diagnosis and treatment of various white blood cell, red blood cell, and coagulation disorders.
Pre-req: CLS 230 with a minimum grade of C.
Grade Mode: Normal Grading Mode

CLS 460 Clinical Lab Mgt and Educ **3 Credit hours**
Laboratory personnel and resource management, cost control, cost analysis, lab marketing, accreditation and CLS education practices. Laboratory personnel and resource management, cost control, cost analysis, lab marketing, accreditation and CLS education practices.
Pre-req: MGT 320 with a minimum grade of C or ECN 250 with a minimum grade of C and CLS 271 with a minimum grade of C.
Grade Mode: Normal Grading Mode

CLS 464 Lab Instrumen Inform Sys **3 Credit hours**
Principles of laboratory instrumentation operation, maintenance, and troubleshooting. Concepts in special topics such as Flow Cytometry, Laboratory Information Systems (LIS), and Schematics also discussed.
Grade Mode: Normal Grading Mode

CLS 466 Diagnostic Physiology **3 Credit hours**
Pathologic aspects of diseases will be discussed using case studies, diagnostic problem solving, and student projects.
Grade Mode: Normal Grading Mode

CLS 468 Clinical Lab Research **3 Credit hours**
Directed independent research in the clinical site on a subject/topic of interest for clinical laboratory practice; formal writing of a research proposal and final project report required.
Attributes: Capstone Course, No Textbook Required
Grade Mode: Normal Grading Mode

CLS 472 Adv CLS Clinical Practicum I **3 Credit hours**
Advanced problem solving and critical thinking through case study evaluation in all areas of the clinical laboratory.
Grade Mode: Normal Grading Mode

CLS 473 Adv CLS Clinical Practicum II **3 Credit hours**
Advanced problem solving and critical thinking in all areas of the clinical laboratory through intensive review of theory and national certification examination review materials for the Medical Laboratory Scientist.
Grade Mode: Normal Grading Mode

CLS 480 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

CLS 481 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

CLS 482 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

CLS 483 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

CLS 485 Independent Study **1-4 Credit hours**
Attributes: No Textbook Required
Grade Mode: Normal Grading Mode

CLS 486 Independent Study **1-4 Credit hours**
Grade Mode: Normal Grading Mode

CLS 487 Independent Study **1-4 Credit hours**
Grade Mode: Normal Grading Mode

CLS 488 Independent Study **1-4 Credit hours**
Grade Mode: Normal Grading Mode

CLS 499 Seminar in Lab Medicine **2 Credit hours**
Review, summary and critique of peer-reviewed research publications in all areas of clinical laboratory science.
Grade Mode: Normal Grading Mode

Communication Disorders (CD)

- General Education Course

CD 101 Intro Communic Disorders **3 Credit hours**
Introduction to the field of Communication Disorders for majors. Discussion of various communication disorders, as well as the roles and responsibilities of the speech-language pathologist.
Grade Mode: Normal Grading Mode

CD 228 Language and Speech Dev **3 Credit hours**
Theories of language acquisition; sequential patterns in the acquisition of prelinguistic communication, speech and language in relationship to general child development.
Grade Mode: Normal Grading Mode

CD 229 Anatomy Speech Mechanism **3 Credit hours**
Introduction to the anatomy and physiology of the speech and hearing mechanism and the neurological system. PR: CD 241 and CD 228 Introduction to the anatomy and physiology of the speech and hearing mechanism and the neurological system. PR: CD 241 and CD 228
Grade Mode: Normal Grading Mode

CD 239 Phonetics **3 Credit hours**
Introduction to articulatory phonetics; study of the International Phonetic Alphabet and practice in broad transcription of normal and disordered speech; discussion of social dialects. PR: CD 241, CD 228 Introduction to articulatory phonetics; study of the International Phonetic Alphabet and practice in broad transcription of normal and disordered speech; discussion of social dialects. PR: CD 241, CD 228
Grade Mode: Normal Grading Mode

CD 241 Intro Communication Science **3 Credit hours**
A survey of the physical and psychophysical bases of communication with discussion of elementary communication models. (PR: CD 101 and Permission) A survey of the physical and psychophysical bases of commun- ication with discussion of elementary communication models. (PR: CD 101 and Permission)
Grade Mode: Normal Grading Mode

CD 322 Dev Speech Disorders **3 Credit hours**
Introduction to developmental speech disorders; etiologies and symptoms; principles of assessment and treatment. Introduction to developmental speech disorders; etiologies and symptoms; principles of assessment and treatment.
Grade Mode: Normal Grading Mode

CD 328 Developmental Lang Dis **3 Credit hours**
Introduction to theoretical bases of developmental language disorders; etiologies and symptoms; principles of assessment and treatment.
Grade Mode: Normal Grading Mode

CD 330 Acq Comm Swallowing Dis **3 Credit hours**
Introduction to acquired disorders; etiologies and symptoms; principles of assessment and treatment. Emphasis on communication and swallowing disorders resulting from CVA, traumatic brain injury, the dementias and other neurological disorders. Introduction to acquired disorders; etiologies and symptoms; principles of assessment and treatment. Emphasis on communication and swallowing disorders resulting from CVA, traumatic brain injury, the dementias and other neurological disorders.
Grade Mode: Normal Grading Mode

CD 370L Field Exper: Sph & Lang **3 Credit hours**
Experience with preschool age children; planning and implementing speech and language stimulation activities. Experience with preschool age children; planning and implementing speech and language stimulation activities.
Grade Mode: Normal Grading Mode

CD 401 Inquiry in CD **1-3 Credit hours**
Course designed to expose undergraduate students to research in the field of CD through participation in a Community of Research Practice and individual study under the guidance of a mentor. May be repeated for credit, not to exceed a total of 12 credit hours. (PR: admission to undergraduate program and permission of advisor)
Attributes: No Textbook Required
Grade Mode: Normal Grading Mode

CD 415 Prof Literacies for SLPs **3 Credit hours**
Investigation into contemporary understandings of literacy using current communication and information technologies and resources. PR: Admission to undergraduate program; permission of instructor. Investigation into contemporary understandings of literacy using current communication and information technologies and resources. PR: Admission to undergraduate program; permission of instructor.
Attributes: Capstone Course
Grade Mode: Normal Grading Mode

CD 420 Voice and Fluency Disorders **3 Credit hours**
Introduction to voice and fluency disorders; etiologies and symptoms; principles of assessment and treatment.
Grade Mode: Normal Grading Mode

CD 424 Diagnosis Comm Disorders **3 Credit hours**
Examination of assessment procedures for differential diagnosis of various communication disorders; a study of symptom complexes; interpretation of diagnostic data.
Grade Mode: Normal Grading Mode

CD 427 Therapeutic Procedures II **3 Credit hours**
Examination of therapeutic procedures relative to speech and language disorders. Investigation into the clinician's role in case management as well as behavior management techniques. (PR: CE 426, CD 422L, CD 425, CR: CD 427L) Examination of therapeutic procedures relative to speech and language disorders. Investigation into the clinician's role in case management as well as behavior management techniques. (PR: CE 426, CD 422L, CD 425, CR: CD 427L)
Grade Mode: Normal Grading Mode

CD 460 Basic Audiology **3 Credit hours**
Introduction to hearing disorders; examination of the auditory system, psychophysical processes and preferred practice procedures for assessment. Includes laboratory. (PR: CD 429, CD 439) Introduction to hearing disorders; examination of the auditory system, psychophysical processes and preferred practice procedures for assessment. Includes laboratory. (PR: CD 429, CD 439)
Grade Mode: Normal Grading Mode

CD 461 Sign Language for SLP **3 Credit hours**
Introduction to basic signs and finger spelling. Overview of different sign systems. Introduction to basic signs and finger spelling. Overview of different sign systems.
Grade Mode: Normal Grading Mode

CD 463 Aural Rehabilitation **3 Credit hours**
Examination of various intervention strategies appropriate for individuals with hearing impairments, techniques for assessing degree of handicap. (PR: CD 460) Examination of various intervention strategies appropriate for individuals with hearing impairments, techniques for assessing degree of handicap. (PR: CD 460)
Grade Mode: Normal Grading Mode

CD 470L Therapeutic Prodecures Lab **2 Credit hours**
Guided and independent observation and analysis of the clinical process. Guided and independent observation and analysis of the clinical process.
Attributes: No Textbook Required
Grade Mode: Credit/No Credit Grade Only

CD 471 SLPA Practicum I **1 Credit hour**
A supervised SLPA clinical practicum in the MUSHC and/or other site with faculty from Marshall University.
Pre-req: CD 471L (may be taken concurrently) with a minimum grade of D.
Concurrent PR: CD 471L
Grade Mode: Normal Grading Mode

CD 471L SLPA Practicum Lab **2 Credit hours**
Introduction to the SLPA profession.
Pre-req: CD 471 (may be taken concurrently) with a minimum grade of D.
Concurrent PR: CD 471
Grade Mode: Credit/No Credit Grade Only

CD 472 Clin Prac School Children **1 Credit hour**
Supervised clinical practice with school-aged children; addresses clinical clock hour requirements set forth by American Speech Language and Hearing Association SLPA program
Pre-req: CD 471 with a minimum grade of D and CD 471L with a minimum grade of D.
Grade Mode: Credit/No Credit Grade Only

CD 472L SLPA Practicum Lab **2 Credit hours**
A lab focused on special considerations related to providing speech language pathology assistant services in the public school setting.
Pre-req: CD 471 with a minimum grade of D and CD 471L with a minimum grade of D and CD 472 (may be taken concurrently) with a minimum grade of D.
Concurrent PR: CD 472
Grade Mode: Credit/No Credit Grade Only

CD 480 Special Topics **1-4 Credit hours**
Attributes: No Textbook Required
Grade Mode: Normal Grading Mode

CD 481 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

CD 482 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

CD 483 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

CD 485 Independent Study **1-4 Credit hours**
Attributes: No Textbook Required
Grade Mode: Normal Grading Mode

CD 486 Independent Study **1-4 Credit hours**
Grade Mode: Normal Grading Mode

CD 487 Independent Study **1-4 Credit hours**
Grade Mode: Normal Grading Mode

CD 488 Independent Study **1-4 Credit hours**
Grade Mode: Normal Grading Mode

Communication Studies (CMM)

- General Education Course

CMM 103 Fund Speech-Communication **3 Credit hours**
A course designed to enhance the development of critical thinking skills and their application to verbal and nonverbal interaction in interpersonal and public communication contexts. A course designed to enhance the development of critical thinking skills and their application to verbal and non- verbal interaction in interpersonal and public communication contexts.
Attributes: Core II Communication Studies
Grade Mode: Normal Grading Mode

CMM 104H Honors in Speech Comm **3 Credit hours**
An accelerated course for selected freshmen and sophomores in fundamentals of communication, concepts and skills in verbal/ nonverbal communication and listening. Not open to juniors and seniors. An accelerated course for selected freshmen and sophomores in fundamentals of communication, concepts and skills in verbal/ nonverbal communication and listening. Not open to juniors and seniors.
Attributes: Core II Communication Studies
Grade Mode: Normal Grading Mode

CMM 201 Communication Foundations (CT) **3 Credit hours**
Develops essential skills in reading and critically analyzing scholarly texts, and in writing academic papers. Develops essential skills in reading and critically analyzing scholarly texts, and in writing academic papers.
Attributes: Critical Thinking
Grade Mode: Normal Grading Mode

CMM 205 The Rhetorical World (CT) **3 Credit hours**
An introduction to the study of rhetoric as a cultural force influencing human behavior and societies and as a critical approach to interpreting cultural artifacts. An introduction to the study of rhetoric as a cultural force influencing human behavior and societies and as a critical approach to interpreting cultural artifacts.
Attributes: Critical Thinking, Core II Humanities
Grade Mode: Normal Grading Mode

CMM 207 Bus & Prof Communication **3 Credit hours**
A study of the communication demands and skills relevant to the student's future role as a business or professional person. A study of the communication demands and skills relevant to the student's future role as a business or professional person.
Attributes: Core II Communication Studies
Grade Mode: Normal Grading Mode

CMM 213 Fund Interpersonal Com **3 Credit hours**
Introduction to principles and practices related to productive interpersonal communication. Emphasizes competence in using verbal and nonverbal message systems to promote effective communication in social and task relationships.
Attributes: Core II Social Sciences
Grade Mode: Normal Grading Mode

CMM 239 Dev & Appreciation of Film **3 Credit hours**
The historical development of the motion picture as an art form. Analysis of the technical, social, economic and cultural factors which have influenced the medium.
Attributes: Core II Humanities
Grade Mode: Normal Grading Mode

CMM 255 Intro Computer-Comm **3 Credit hours**
Use and implications of telecomputing for messaging, resource finding, and self-directed discovery lerning. Use and implications of telecomputing for messaging, re- source finding, and self-directed discovery lerning.
Attributes: Digital Humanities, Core II Social Sciences
Grade Mode: Normal Grading Mode

CMM 270 Intercollegiate Debate **1 Credit hour**
(PR: Permission of instructor). May be repeated 3 times for credit.
Grade Mode: Normal Grading Mode

CMM 271 Intercollegiate Debate **1 Credit hour**
(PR: Permission of instructor). May be repeated 3 times for credit.
Grade Mode: Normal Grading Mode

CMM 280 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

CMM 281 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

CMM 282 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

CMM 283 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

CMM 298 Itv **1-4 Credit hours**
A course based upon Instructional Television Series broadcast by public television. The student is repsonsible for viewing the series on the air and satisfying all course requirements announced by the department. A course based upon Instructional Television Series broad- cast by public television. The student is repsonsible for viewing the series on the air and satisfying all course re- quirements announced by the department.
Grade Mode: Normal Grading Mode

CMM 302 Professional Presentations **3 Credit hours**
Designed for present and future demands on skilled presenters of information. Included in the teaching of advanced oral presentation skills, computer assisted/ aided presentations, teleconferencing and other presentational skills. Designed for present and future demands on skilled presenters of information. Included in the teaching of advanced oral presentation skills, computer assisted/ aided presentations, teleconferencing and other presentational skills.
Pre-req: CMM 103 with a minimum grade of D or CMM 104H with a minimum grade of D or CMM 207 with a minimum grade of D or YGS 161 with a minimum grade of D or IST 101 with a minimum grade of D.
Grade Mode: Normal Grading Mode

CMM 303 Intro Communication Thry **3 Credit hours**
Analysis of the process of communication and its constituent elements, with emphasis upon traditional and contemporary theories, their validation, and their use as a tool in diagnosis and remediation of communication problems. Analysis of the process of communication and its constituent elements, with emphasis upon traditional and contemporary theories, their validation, and their use as a tool in diagnosis and remediation of communication problems.
Pre-req: CMM 103 or CMM 104H or CMM 207 or CMM 305 or YGS 161 or IST 101.
Grade Mode: Normal Grading Mode

CMM 307 Political Communication **3 Credit hours**
Investigation of the functions, ethics, responsibilities and social impact of oral communication in periods of social unrest and/or political change. Investigation of the functions, ethics, responsibilities and social impact of oral communication in periods of social unrest and/or political change.
Pre-req: CMM 103 or CMM 104H or CMM 207 or CMM 305 or YGS 161 or IST 101.
Grade Mode: Normal Grading Mode

CMM 308 Persuasive Communication **3 Credit hours**
Introduction to the understanding, practice and analysis of persuasion. Behavioral and rhetorical theories of persuasion will be examined and applied to contemporary persuasive communications. Introduction to the understanding, practice and analysis of persuasion. Behavioral and rhetorical theories of persuas- ion will be examined and applied to contemporary persuasive communications.
Pre-req: CMM 103 with a minimum grade of D or CMM 104H with a minimum grade of D or CMM 207 with a minimum grade of D or YGS 161 with a minimum grade of D or IST 101 with a minimum grade of D.
Grade Mode: Normal Grading Mode

CMM 310 Argumentation & Debate **3 Credit hours**
Basic principles of agrument; practice in discussion and debate. Recommended but not a prerequisite for intercollegiate debating. Basic principles of agrument; practice in discussion and debate. Recommended but not a prerequisite for inter- collegiate debating.
Pre-req: CMM 103 or CMM 104H or CMM 207 or CMM 305 or YGS 161 or IST 101.
Grade Mode: Normal Grading Mode

CMM 311 Lang & Communication **3 Credit hours**
A method for studying the role which language plays in human affairs. A method for studying the role which language plays in human affairs.
Grade Mode: Normal Grading Mode

CMM 315 Group Communication **3 Credit hours**
Study of group communication processes, including problem solving, systems of group communication analysis and evaluation, in task oriented groups. Study of group communication processes, including problem solving, systems of group communication analysis and evaluation, in task oriented groups.
Pre-req: CMM 103 with a minimum grade of D or CMM 104H with a minimum grade of D or CMM 207 with a minimum grade of D or YGS 161 with a minimum grade of D or IST 101 with a minimum grade of D.
Grade Mode: Normal Grading Mode

CMM 316 Legal Communication **3 Credit hours**
The theory and practice of legal communication techniques. The course will examine interviewing skills, negotiation skills, argument preparation skills, presentation skills, and cross-examination skills. Recommended for pre-law students. The theory and practice of legal communication techniques. The course will examine interviewing skills, negotiation skills, argument preparation skills, presentation skills, and cross-examination skills. Recommended for pre-law students.
Pre-req: CMM 103 or CMM 104H or CMM 207 or YGS 161 or IST 101.
Grade Mode: Normal Grading Mode

CMM 319 Superior-Subordinate Comm **3 Credit hours**
Survey of principles underlying communication between superiors and subordinates in organizations. Emphasis placed upon communication strategies regarding role definition, performance feedback, development and maintenance of relationships, conflict management, leadership, decisionmaking. Survey of principles underlying communication between superiors and subordinates in organizations. Emphasis placed upon communication strategies regarding role defini- tion, performance feedback, development and maintenance of relationships, conflict management, leadership, decision- making.
Pre-req: CMM 103 with a minimum grade of D or CMM 104H with a minimum grade of D or CMM 207 with a minimum grade of D or YGS 161 with a minimum grade of D or IST 101 with a minimum grade of D.
Grade Mode: Normal Grading Mode

CMM 320 Oral Interpretation Lit **3 Credit hours**
The fundamentals of reading, analyzing, and interpreting literature. The fundamentals of reading, analyzing, and interpreting literature.
Grade Mode: Normal Grading Mode

CMM 322 Intercultural Communication **3 Credit hours**
A study of the barriers to communication across cultures and of strategies for addressing these problems.
Pre-req: CMM 103 with a minimum grade of D or CMM 104H with a minimum grade of D or CMM 207 with a minimum grade of D or CMM 213 with a minimum grade of D or YGS 161 with a minimum grade of D or IST 101 with a minimum grade of D.
Attributes: Multicultural
Grade Mode: Normal Grading Mode

CMM 330 Performance Theory **3 Credit hours**
The study of performance practices that function as enactments of cultural identity. Topics will include performance as a cultural process, performance in social roles, and performance as power.
Pre-req: CMM 103 or CMM 104H or CMM 207.
Attributes: Multicultural
Grade Mode: Normal Grading Mode

CMM 345 Listening & Feedback **3 Credit hours**
A study of listening/feedback behavior as an integral part of the communication process, development of listening/ feedback skills, and an awareness of barriers to effective listening and feedback. A study of listening/feedback behavior as an integral part of the communication process, development of listening/ feedback skills, and an awareness of barriers to effective listening and feedback.
Pre-req: CMM 103 or CMM 104H or CMM 207 or YGS 161 or IST 101.
Grade Mode: Normal Grading Mode

CMM 370 Intercollegiate Debate **1 Credit hour**
(PR: Permission of instructor). May be repeated 3 times for credit. Continuation of Speech 270-271.
Grade Mode: Normal Grading Mode

CMM 371 Intercollegiate Debate **1 Credit hour**
(PR: Permission of instructor). May be repeated 3 times for credit. Continuation of Speech 270-271.
Grade Mode: Normal Grading Mode

CMM 374 Intro to Health Communication **3 Credit hours**
Surveys interpersonal, public, and organizational health communication theories and findings; explores the communication demands of health care and promotion, communication issues in health systems, and strategies to resolve problems.
Grade Mode: Normal Grading Mode

CMM 401 Organization Communication **3 Credit hours**
Investigation of information flow in organizations with emphasis on identifying communication problems. Investigation of information flow in organizations with emphasis on identifying communication problems.
Pre-req: CMM 303 (may be taken concurrently).
Concurrent PR: CMM 303
Grade Mode: Normal Grading Mode

CMM 402 Rhetorical Theory **3 Credit hours**
An exploration of theories of rhetoric from the Greek philosophers to the present. This course will examine the strategic use of symbols in persuasive discourse. An exploration of theories of rhetoric from the Greek philosophers to the present. This course will examine the strategic use of symbols in persuasive discourse.
Grade Mode: Normal Grading Mode

CMM 403 Nonverbal Communication **3 Credit hours**
This course will explore the areas and significance of nonverbal communication as they relate to the quality and effectiveness of human interaction in personal, social, and professional relationships. This course will explore the areas and significance of nonverbal communication as they relate to the quality and effectiveness of human interaction in personal, social, and professional relationships.
Pre-req: CMM 103 with a minimum grade of D or CMM 207 with a minimum grade of D or CMM 104H with a minimum grade of D.
Attributes: Multicultural
Grade Mode: Normal Grading Mode

CMM 404 Rhetorical Comm Criticism **3 Credit hours**
An examination of the construction of rhetorical texts and the effects they produce.
Grade Mode: Normal Grading Mode

CMM 406 Interviewing **3 Credit hours**
Skill development in the question-answer-response process as it applies to a variety of interviewing situations. Skill development in the question-answer-response process as it applies to a variety of interviewing situations.
Grade Mode: Normal Grading Mode

CMM 408 Leadership & Group Comm **3 Credit hours**
A study of the variable affecting, and affected by, communication process in small groups, with particular emphasis upon leadership variables. A study of the variable affecting, and affected by, communication process in small groups, with particular emphasis upon leadership variables.
Pre-req: CMM 315.
Grade Mode: Normal Grading Mode

CMM 409 Theory Persuasion Change **3 Credit hours**
Study of the relationship between persuasion and social change, including theories of attitude and behavioral change and contemporary theories of persuasion. Study of the relationship between persuasion and social change, including theories of attitude and behavioral change and contemporary theories of persuasion.
Attributes: Digital Humanities
Grade Mode: Normal Grading Mode

CMM 411 Communication Study & Resch **3 Credit hours**
Introduction to the advanced study of theory and research areas with emphasis on communication research methods and reporting.
Pre-req: CMM 303 (may be taken concurrently).
Concurrent PR: CMM 303
Grade Mode: Normal Grading Mode

CMM 413 Theories of Interpersonal Com **3 Credit hours**
Pre-req: CMM 213.
Grade Mode: Normal Grading Mode

CMM 420 Communication & Conflict **3 Credit hours**
An exploration of the theory, research, and practice of communication in understanding and negotiating interpersonal conflict.
Grade Mode: Normal Grading Mode

CMM 421 Gender and Communication **3 Credit hours**
An exploration of gender as an organizing principle for communication. An exploration of gender as an organizing principle for communication.
Grade Mode: Normal Grading Mode

CMM 441 Dev Appr Film Since 1930 **3 Credit hours**
Study of important directions in modern film, including style, genre, and the relationship to contemporary society. A variety offilms will be viewed for analysis. Study of important directions in modern film, including style, genre, and the relationship to contemporary society. A variety offilms will be viewed for analysis.
Grade Mode: Normal Grading Mode

CMM 450 Direction Speech Activity **3 Credit hours**
Direction of extracurricular speech activities: assemblies, forensic events, etc. Direction of extracurricular speech activities: assemblies, forensic events, etc.
Grade Mode: Normal Grading Mode

CMM 456 Computer-Mediated Comm **3 Credit hours**
This course explores the impact of computer-mediated communication on human organization. This course explores the impact of computer-mediated comm- unication on human organization.
Attributes: Digital Humanities
Grade Mode: Normal Grading Mode

CMM 474 Interpersonal Health Comm **3 Credit hours**
Investigates communication in establishing effective interactions between health providers, patients, and families. Explores theories and findings in relationship development, decision making, intercultural communication, social support, advocacy, and family relationships. Investigates communication in establishing effective interactions between health providers, patients, and families. Explores theories and findings in relationship development, decision making, intercultural communication, social support, advocacy, and family relationships.
Grade Mode: Normal Grading Mode

CMM 476 Communication Classrm Tch **3 Credit hours**
Knowledge and utilization of interpersonal communication skills in all teaching-learning environments. Knowledge and utilization of interpersonal communication skills in all teaching-learning environments.
Grade Mode: Normal Grading Mode

CMM 478 Senior Seminar **3 Credit hours**
Capstone experience. The development, organization, revision and presentation of major projects that serve to demonstrate the student's competence in the discipline.
Pre-req: CMM 411 with a minimum grade of D.
Attributes: Capstone Course
Grade Mode: Normal Grading Mode

CMM 479 Public Health Communication **3 Credit hours**
Examines communication processes that influence human behavior and public policy through health promotion campaigns, including theories and practices of health behavior change and designing, implementing, and evaluating health communication interventions.
Grade Mode: Normal Grading Mode

CMM 480 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

CMM 481 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

CMM 482 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

CMM 483 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

CMM 485 Independent Study **1-4 Credit hours**
Attributes: No Textbook Required
Grade Mode: Normal Grading Mode

CMM 486 Independent Study **1-4 Credit hours**
Grade Mode: Normal Grading Mode

CMM 487 Independent Study **1-4 Credit hours**
Grade Mode: Normal Grading Mode

CMM 488 Independent Study **1-4 Credit hours**
Grade Mode: Normal Grading Mode

CMM 490 Internship **1-4 Credit hours**
Attributes: No Textbook Required
Grade Mode: Normal Grading Mode

CMM 495H Readings Honors Com Study **4 Credit hours**
Open only to speech majors of outstanding ability. See Honors Courses. Open only to speech majors of outstanding ability. See Honors Courses.
Grade Mode: Normal Grading Mode

Computer & Info Security (CYBR)

- General Education Course

CYBR 210 Comp and Info Sec Principle **3 Credit hours**
Introduction to the various technical and administrative aspects of Computer and Information Security. Understanding key issues associated with protecting information assets, determining the protection needed and response to security incidents.
Pre-req: CS 105 or CS 110 or CS 110H.
Grade Mode: Normal Grading Mode

CYBR 240 Information Security Policies **3 Credit hours**
Introduction to information security policies, sociological and psychological issues in policy implementation in general. Discuss the lifecycle of policy creation, enactment in different domains of security and policy structure.
Pre-req: CS 105 with a minimum grade of D or CS 110 with a minimum grade of D or CS 110H with a minimum grade of D.
Grade Mode: Normal Grading Mode

CYBR 310 Introduction to Cryptography **3 Credit hours**
This course covers the basic aspects of modern crytography, including block ciphers, pseudorandom functions, symmetric encryption, Hash functions, message authentication, number theoretic primitives, public-key encryption, digital signatures and zero knowledge proofs.
Pre-req: CS 210 and (STA 225 or STA 345).
Grade Mode: Normal Grading Mode

CYBR 330 Cyber Security **3 Credit hours**
Concepts and issues in physical and cyber security; technical vulnerabilities found in operating systems, database servers, Web servers, Internet, and local area networks; developing defensive and offensive security measures.
Pre-req: CS 320 with a minimum grade of D.
Grade Mode: Normal Grading Mode

CYBR 350 Cyber System Administration **3 Credit hours**
Introduction of System Administration and related topics, including trouble-shooting system and network problems, hardware and software configuration and installation, basic scripting, and security aspects of Internet hosts.
Pre-req: CS 320 with a minimum grade of D.
Grade Mode: Normal Grading Mode

CYBR 360 Cyber Infrastructure Security **3 Credit hours**
Comprehensive analysis on the utilization and augmentation of cyber security technologies to harden cyber infrastructure and its interconnected cyber-physical systems against various attacks.
Pre-req: CS 320 with a minimum grade of D.
Grade Mode: Normal Grading Mode

CYBR 400 Computer Security Design **3 Credit hours**
Foundation technical and analytical skills to implement comprehensive computer security that encompass designing secure systems, information security, protecting information assets, managing computer security, risk mitigation strategies, and incident response.
Pre-req: CYBR 350.
Grade Mode: Normal Grading Mode

CYBR 435 Cyber Risk **3 Credit hours**
Advanced course on the functions and purposes of the latest development in cyber security techniques and tools used to create, secure, protect and remediate cyber-infrastructures from various cyber threats.
Pre-req: CYBR 330 with a minimum grade of D or CS 330 with a minimum grade of D.
Grade Mode: Normal Grading Mode

CYBR 442 Cyber Operations **3 Credit hours**
Study of various concepts and aspects in choosing, deploying, supporting, troubleshooting and securing various local and distributed components of a cyber operation with consideration of the human factor.
Pre-req: CYBR 350 and CYBR 360.
Grade Mode: Normal Grading Mode

CYBR 475 Internship **3 Credit hours**
An in-depth and hands-on involvement in a real-world project under direct professional supervision. The project my be on-campus or off-campus.
Grade Mode: Normal Grading Mode

CYBR 480 Special Topics **1-4 Credit hours**
Study of an advanced topic not normally covered in other courses.
Grade Mode: Normal Grading Mode

CYBR 481 Special Topics **1-4 Credit hours**
Study of an advanced topic not normally covered in other courses.
Grade Mode: Normal Grading Mode

CYBR 482 Special Topics **1-4 Credit hours**
Study of an advanced topic not normally covered in other courses.
Grade Mode: Normal Grading Mode

CYBR 483 Special Topics **1-4 Credit hours**
Study of an advanced topic not normally covered in other courses.
Grade Mode: Normal Grading Mode

CYBR 484 Special Topics **1-4 Credit hours**
Study of an advanced topic not normally covered in other courses.
Grade Mode: Normal Grading Mode

CYBR 485 Special Topics **1-4 Credit hours**
Study of an advanced topic not normally covered in other courses.
Grade Mode: Normal Grading Mode

CYBR 486 Independent Study **1-4 Credit hours**
Independent study for selected juniors and seniors under supervision of faculty; may be repeated only once.
Grade Mode: Normal Grading Mode

CYBR 487 Independent Study **1-4 Credit hours**
Independent study for selected juniors and seniors under supervision of faculty; may be repeated only once.
Grade Mode: Normal Grading Mode

CYBR 488 Independent Study **1-4 Credit hours**
Independent study for selected juniors and seniors under supervision of faculty; may be repeated only once.
Grade Mode: Normal Grading Mode

CYBR 489 Independent Study **1-4 Credit hours**
Independent study for selected juniors and seniors under supervision of faculty; may be repeated only once.
Grade Mode: Normal Grading Mode

CYBR 490 Senior Project **3 Credit hours**
Application of technical and profesional skills in solving a real-world problem in a team environment. Discuss professional code of conduct, societal issues, and transition from student to industry professional.
Pre-req: CYBR 330.
Attributes: Capstone Course
Grade Mode: Normal Grading Mode

Computer Information Tech (CIT)

- General Education Course

CIT 150 Spreadsheet and Database Apps **3 Credit hours**
Comprehensive coverage of spreadsheets and databases. Includes techniques to collect, manage, and analyze data; solve problems; and effectively communicate results for scientific research. Includes macro development and introduction to scripting.
Grade Mode: Normal Grading Mode

CIT 163 Intro to Programming: C++ **3 Credit hours**
Concepts of software development and maintenance using C++, including syntax of the language, loops, functions, pointers, decision structures, and file processing. Proper program design using object-oriented programming techniques are emphasized.
Grade Mode: Normal Grading Mode

CIT 260 Instrumentation **3 Credit hours**
The course introduces students to modern data gathering methods, laboratory instrumentation, and programming. Focuses range from transportation development, forensics, to environmental issues.
Grade Mode: Normal Grading Mode

CIT 263 Web Programming I **3 Credit hours**
Students will learn techniques for creating advanced documents and programs for the Web using HTML, DHTML, XML, JavaScript, and PHP scripting. Students will also learn how to install and maintain a Web server.
Grade Mode: Normal Grading Mode

CIT 264 Technology Foundations **3 Credit hours**
This course introduces the student to the common hardware and technology that pervades business and society as a whole. Topics include pc's, networks, software, the internet, cellular phones, etc.
Grade Mode: Normal Grading Mode

CIT 265 C# NET Programming **3 Credit hours**
Covers the essentials for developing robust and secure applications using C#, Windows forms, and the .NET framework. Also covers ADO.NET, writing secure .NET applications and web services.
Pre-req: IST 236 or CIT 236 or CS 120.
Grade Mode: Normal Grading Mode

CIT 266 Applied C++ Programming **3 Credit hours**
Designed to teach students intermediate C++ programming through an applied approach with examples and applications. The course extends topics covered in prerequisite courses. Prior programming knowledge in any language required.
Pre-req: CIT 163 with a minimum grade of D or CS 120 with a minimum grade of D.
Grade Mode: Normal Grading Mode

CIT 280 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

CIT 281 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

CIT 282 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

CIT 283 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

CIT 285 Independent Study **1-4 Credit hours**
Independent study for selected freshmen and sophomores under supervision of faculty; may be repeated only once.
Attributes: No Textbook Required
Grade Mode: Normal Grading Mode

CIT 301 Public Service Experience **1 Credit hour**
At least 30 contact hours in a public service/volunteer experience with a group, organization or agency that offers a service to the general public. Advisor permission required.
Grade Mode: Credit/No Credit Grade Only

CIT 313 Web Programming II **3 Credit hours**
The second semester of a two course sequence on Web programming. This course focuses on server-side programming and databases. Topics covered include PHP, mySQL, web services, and security.
Pre-req: CIT 263 with a minimum grade of D.
Grade Mode: Normal Grading Mode

CIT 332 Software Engineering I **3 Credit hours**
Introduction to the industrial process of software systems development. The course covers project management and planning risk management issues; software quality and configuration issues; and processes, methods, and development tools.
Pre-req: CIT 236 or IST 236 or CS 120.
Grade Mode: Normal Grading Mode

CIT 333 Software Engineering II **3 Credit hours**
Second course in a two course sequence. Covers the system development life cycle: requirement analysis and specifications; design methods; system implementation and integration; testing; and reuse issues. Team project participation.
Pre-req: CIT 332 with a minimum grade of D or IST 332 with a minimum grade of D.
Grade Mode: Normal Grading Mode

CIT 340 Game Development I:2D **3 Credit hours**
Covers computer software industry, history and the role of a creative game development team. Students will participate in the game development process, including art, animation, programming, music, sound and writing.
Pre-req: CIT 236 or IST 236 or CS 120.
Grade Mode: Normal Grading Mode

CIT 352 Network Protocols and Admin **3 Credit hours**
This course provides students with knowledge of network terminology, structures, topologies, protocols, and inter-faces involving Local Area and Wide Area networks.
Pre-req: CIT 163 with a minimum grade of D or IST 163 with a minimum grade of D or CS 110 with a minimum grade of D.
Grade Mode: Normal Grading Mode

CIT 365 Database Management **3 Credit hours**
To understand the logical and physical design of data stored and retrieved from a relational database. Exposure to distributed databases, database administration and structured query language will also be done.
Grade Mode: Normal Grading Mode

CIT 410 Electronic Commerce **3 Credit hours**
This course examines electronic commerce. Group decision making and collaborative applications through the Internet. Develop applications that retrieve and store information in distributed databases.
Pre-req: CIT 365 with a minimum grade of D or IST 365 with a minimum grade of D and CIT 313 with a minimum grade of D.
Attributes: No Textbook Required
Grade Mode: Normal Grading Mode

CIT 413 iOS Development **3 Credit hours**
Students will learn to develop iOS applications using HTML5/ PhoneGap, Objective-C, and Swift, using Apple and third-party SDKs. Also covers basic concepts for designing intuitive and usable user-interfaces.
Pre-req: CIT 265.
Grade Mode: Normal Grading Mode

CIT 414 Android Development **3 Credit hours**
Students will learn to develop Android applications using Java and the Android SDK. Course covers user interfaces, audio integration, SQLite databases, location services, sensors, and custom graphics.
Pre-req: CIT 265 with a minimum grade of D.
Attributes: No Textbook Required
Grade Mode: Normal Grading Mode

CIT 416 Advanced Web Programming **3 Credit hours**
Includes topics in XHTML, JavaScript Data Object Model, dynamic application of CSS rules to page elements, browser's support for XML, object-oriented PHP programming, server side graphics generation, web services.
Pre-req: CIT 365 with a minimum grade of D and CIT 313 with a minimum grade of D.
Grade Mode: Normal Grading Mode

CIT 440 Computer Graphics for Gaming **3 Credit hours**
Fundamental concepts dealing with the display of graphic information on semi-interactive storage tube displays. The course includes techniques for hidden line display, hidden line removal, and two- and three-dimensional transformation.
Pre-req: CIT 236 with a minimum grade of D or IST 236 with a minimum grade of D or CS 120 with a minimum grade of D.
Grade Mode: Normal Grading Mode

CIT 441 Game Development II:3D **3 Credit hours**
Covers state of the art techniques for computer game design and development with an emphasis on the 3D graphics and interaction through practical, example driven approaches of game development.
Pre-req: CIT 340 with a minimum grade of D or IST 360 with a minimum grade of D.
Attributes: No Textbook Required
Grade Mode: Normal Grading Mode

CIT 443 Game Development III: AI **3 Credit hours**
Advanced concepts of game development with a focus on artificial intelligence. AI techniques covered including A* path finding algorithm, rule-based reasoning, reinforcement learning, neural networks, genetic algorithm, knowledge representation.
Pre-req: CIT 441 with a minimum grade of D or IST 439 with a minimum grade of D.
Attributes: No Textbook Required
Grade Mode: Normal Grading Mode

CIT 446 3D Modeling and Animation **3 Credit hours**
Covers 3D modeling to create environments and character animation. Explores 3D forms within sculpture, architecture, animation and games. Includes development of simplifications, abstractions and hyper-realities for gaming.
Attributes: Digital Humanities, No Textbook Required
Grade Mode: Normal Grading Mode

CIT 447 Modeling/Simulation Dev **3 Credit hours**
Course applies fundamentals of game development to educational games or simulations within a virtual world. Explores virtual worlds, basic scripting/modeling techniques and role-playing simulations to teach any concept.
Pre-req: CIT 441 with a minimum grade of D.
Grade Mode: Normal Grading Mode

CIT 448 Mobile Game Development **3 Credit hours**
Students will work in teams to develop games for mobile devices. Emphasis on mobile development tools, techniques, cross platform development, and standard practices, using open-source software.
Pre-req: CIT 340 with a minimum grade of D.
Attributes: No Textbook Required
Grade Mode: Normal Grading Mode

CIT 466 Database Programming **3 Credit hours**
This course teaches students database programming available to relational database systems. Students will work with fourth generation languages to analyze, design and develop, and execute programs in a database environment.
Pre-req: CIT 365 or IST 365.
Attributes: No Textbook Required
Grade Mode: Normal Grading Mode

CIT 470 Internship in CIT **3 Credit hours**
Capstone course in CIT. A professionally supervised internship within the student's area of emphasis in the Computer and Information Technology major. Must be pre-approved before registering.
Attributes: Capstone Course
Grade Mode: Normal Grading Mode

CIT 480 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

CIT 481 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

CIT 482 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

CIT 483 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

CIT 485 Independent Study **1-4 Credit hours**
Independent study for selected juniors and seniors under supervision of faculty; may be repeated only once.
Attributes: No Textbook Required
Grade Mode: Normal Grading Mode

CIT 490 Capstone Project in CIT **3 Credit hours**
Capstone course in CIT. Students will plan, implement, and present a solution to a real-world problem within their emphasis demonstrating their technical and professional skills. Must be pre-approved before registering.
Attributes: Capstone Course
Grade Mode: Normal Grading Mode

Computer Science (CS)

- General Education Course

CS 101 Coding **1 Credit hour**
This course is designed to expose students to coding with no previous programming experience. The topic covers basic programming with software development methodologies.
Grade Mode: Normal Grading Mode

CS 105 Expl World with Computing (CT) **3 Credit hours**
Central principles and big ideas of computing: problem-solving, computational and critical thinking, abstraction, creativity, reasoning, data, algorithms, recursion, visualization, and limits of computation. Solve real-world problems with computing.
Pre-req: ACT Math with a score of 17 or SAT Verbal Before March 16 with a score of 400 or SAT MATH SECTION SCORE with a score of 440 or Placement Math After SP17 with a score of 101 or MTH 102 with a minimum grade of C or MTH 102B with a minimum grade of C or MTH 127 with a minimum grade of C or MTH 130 with a minimum grade of C or MTH 132 with a minimum grade of C or MTH 229 with a minimum grade of C or MTH 229H with a minimum grade of C.
Attributes: Critical Thinking, Digital Humanities
Grade Mode: Normal Grading Mode

CS 110 Computer Science I **3 Credit hours**
Pre-req: ACT Math with a score of 24 or SAT Mathematics Before Mar. 16 with a score of 560 or SAT MATH SECTION SCORE with a score of 580 or MTH 127 or MTH 130 and MTH 132 (may be taken concurrently) or MTH 229 (may be taken concurrently) or MTH 229H (may be taken concurrently).
Concurrent PR: MTH 132 or MTH 229 or MTH 229H
Attributes: Digital Humanities
Grade Mode: Normal Grading Mode

CS 110H Computer Science Honors **3 Credit hours**
Object-oriented and algorithmic problem solving principles and techniques; programming with classes in an integrated programming environment; and program debugging.
Pre-req: ACT Math with a score of 24 or SAT Mathematics Before Mar. 16 with a score of 560 or SAT MATH SECTION SCORE with a score of 580 or MTH 127 or MTH 130 and MTH 132 (may be taken concurrently) or MTH 129 (may be taken concurrently) or MTH 129H (may be taken concurrently).
Concurrent PR: MTH 132 or MTH 129 or MTH 129H
Grade Mode: Normal Grading Mode

CS 120 Computer Science II **3 Credit hours**
Object-oriented analysis and design, advanced programming with classes, arrays, strings, sorting, searching, I/O, GUI development, system life cycle and software development methodologies. CR/PR: CS 110
Pre-req: CS 110 with a minimum grade of D or CS 110H with a minimum grade of D.
Attributes: Digital Humanities
Grade Mode: Normal Grading Mode

CS 205 Scientific Computing **3 Credit hours**
An introduction to computer programming, software design, and algorithm analysis and implementation. Abstract concepts illustrated with examples and exercises drawn from the mathematical and physical sciences. Primarily for non-CS majors.
Pre-req: MTH 140 or MTH 229 (may be taken concurrently) or MTH 229H (may be taken concurrently).
Concurrent PR: MTH 229 or MTH 229H
Grade Mode: Normal Grading Mode

CS 210 Data Structures and Algorithms **3 Credit hours**
Design and implementation of data structures including stacks, queues, lists, trees, heaps, balanced trees, and graphs. Other topics include hasing, threading, data parsing, program testing, correctness, efficiency, and exceptions. Data structures including stacks, queues, lists, trees, graphs, priority queues, and dictionaries.
Pre-req: CS 120 with a minimum grade of D and MTH 220 (may be taken concurrently) with a minimum grade of D.
Concurrent PR: MTH 220
Grade Mode: Normal Grading Mode

CS 215 Adv Data Struct and Algorithms **3 Credit hours**
Advanced techniques for designing and analyzing algorithms, including asymptotic analysis; data structures; divide-and-conquer algorithms and recurrences; greedy algorithms; dynamic programming; graph algorithms; randomized algorithms; and NP-complete problems.
Pre-req: CS 210 with a minimum grade of D and (MTH 229 with a minimum grade of D or MTH 229H with a minimum grade of D) and MTH 220 (may be taken concurrently) with a minimum grade of D.
Concurrent PR: MTH 220
Grade Mode: Normal Grading Mode

CS 280 Special Topics **1-4 Credit hours**
EMERGING TOPICS IN COMPUTER SCIENCE.
Grade Mode: Normal Grading Mode

CS 281 Special Topics **1-4 Credit hours**
EMERGING TOPICS IN COMPUTER SCIENCE.
Grade Mode: Normal Grading Mode

CS 282 Special Topics **1-4 Credit hours**
EMERGING TOPICS IN COMPUTER SCIENCE.
Grade Mode: Normal Grading Mode

CS 283 Special Topics **1-4 Credit hours**
EMERGING TOPICS IN COMPUTER SCIENCE.
Grade Mode: Normal Grading Mode

CS 300 Programming Languages **3 Credit hours**
Pre-req: CS 210 with a minimum grade of D.
Grade Mode: Normal Grading Mode

CS 305 Software Engineering **3 Credit hours**
This course provides a broad introduction to software engineering theories, methods, and tools. Requires substantial writing.
Topics include requirements engineering, analysis and design, implementation, versioning, and testing. This course provides a broad introduction to software engineering theories, methods, and tools. Requires substantial writing. Topics include requirements engineering, analysis and design, implementation, versioning, and testing.
Pre-req: MTH 220 and CS 210 and ENG 354 (may be taken concurrently).
Concurrent PR: ENG 354
Grade Mode: Normal Grading Mode

CS 310 Software Engineering II **3 Credit hours**
Pre-req: CS 305 with a minimum grade of D.
Grade Mode: Normal Grading Mode

CS 315 Software Quality Assurance **3 Credit hours**
Testing techniques and validation of system requirements. Design reviews and code inspections; unit, integration, system, regression, load, stress, user acceptance, and regression testing; statistical testing; test strategies and project metrics.
Pre-req: CS 310 and MTH 345.
Grade Mode: Normal Grading Mode

CS 320 Internetworking **3 Credit hours**
Principles and issues in interconnecting multiple physical networks into a coordinated system, operation of internet protocols in the interconnected environment, and design of applications to operate in this environment.
Pre-req: CS 210 and (MTH 229 or MTH 229H).
Grade Mode: Normal Grading Mode

CS 330 Operating Systems **3 Credit hours**
Modern operating systems design and implementation: multi-tasking and time sharing, concurency and synchronization, interprocess communication, resource scheduling, memory management, deadlocks, I/O, file systems, and security.
Pre-req: CS 210.
Grade Mode: Normal Grading Mode

CS 351 Computer Sciences Co-Op **0 Credit hours**
A supervised experience in which the student works for a company to gain practical experience in a students major.
Pre-req: ENGR 217 with a minimum grade of D.
Grade Mode: Credit/No Credit Grade Only

CS 360 Automata and Formal Languages **3 Credit hours**
Basic theoretical concepts are introduced, including finite state automata, regular expressions, context-free grammars, pushdown automata, Turing machines, recursively enumerable languages, the halting problem, and the Church-Turing thesis. Basic theoretical concepts are introduced, including finite state automata, regular expressions, context-free grammars, pushdown automata, Turing machines, recursively enumerable languages, the halting problem, and the Church-Turing thesis.
Pre-req: MTH 220 and CS 210.
Grade Mode: Normal Grading Mode

CS 370 Computer Graphics **3 Credit hours**
Mathematical theory and practical tools and techniques for generating realistic pictures using computers. This is a project-centered course and involves extensive programming using the open GL standard.
Pre-req: CS 210 with a minimum grade of D.
Grade Mode: Normal Grading Mode

CS 402 Computer Architecture **3 Credit hours**
Design and analyze structure of major hardware components of computers including: ALU, instruction sets, memory hierarchy, parallelism through multicore and many core, storage systems and interfaces.
Pre-req: CS 300 with a minimum grade of D.
Grade Mode: Normal Grading Mode

CS 404 High Performance Computing **3 Credit hours**
Software design and development targeting high performance computing architectures. Multi-core and many-core systems: I/O, file systems, performance metrics. Programming models include MPI, OpenMP, MapReduce, CUDA, OpenCL.
Pre-req: CS 402.
Grade Mode: Normal Grading Mode

CS 405 Computing for Bioinformatics **3 Credit hours**
Study of computational algorithms and programming techniques for various bioinformatics tasks including parsing DNA files, sequence alignments, tree construction, clustering, species identification, principal component analysis, correlations, and gene expression arrays.
Pre-req: CS 215.
Grade Mode: Normal Grading Mode

CS 410 Database Engineering **3 Credit hours**
Study of data models, data description languages, query languages including relational algebra and SQL, logical and physical database design, transactions, backup and recovery. Design and implementation of a database application.
Pre-req: CS 210 with a minimum grade of D.
Grade Mode: Normal Grading Mode

CS 412 Embedded Systems **3 Credit hours**
The design of systems containing embedded computers. Micro-controller technology, assembly language and C programming, input/output interfacing, data acquisition hardware, interrupts, and timing. Real-time operating systems and application programming. Application examples.
Pre-req: CS 402 with a minimum grade of D or EE 340 with a minimum grade of D.
Grade Mode: Normal Grading Mode

CS 415 Data Mining **3 Credit hours**
Covers (1) the process of knowledge discovery, (2) algorithms (association rules, classification, and clustering), and (3) real-world applications. Focuses on efficient data mining algorithms and scaling up data mining methods.
Pre-req: CS 215 and CS 410.
Grade Mode: Normal Grading Mode

CS 425 Computational Intelligence **3 Credit hours**
Genetic algorithms, evolutionary strategies, and genetic programming. Methods of knowledge representation using rough sets, type-1 fuzzy sets, and type-2 fuzzy sets. Neural network architectures and their learning algorithms. Genetic algorithms, evolutionary strategies, and genetic programming. Methods of knowledge representation using rough sets, type-1 fuzzy sets, and type-2 fuzzy sets. Neural network architectures and their learning algorithms.
Pre-req: CS 300.
Grade Mode: Normal Grading Mode

CS 430 Cyber Security **3 Credit hours**
Concepts and issues in physical and cyber security; technological vulnerabilities found in operating systems, database servers, web servers, internet, and local area networks; developing defensive and offensive security measures.
Pre-req: CS 320 with a minimum grade of D.
Grade Mode: Normal Grading Mode

CS 435 Cyber Risk **3 Credit hours**
Advanced course on the functions and purposes of the latest development in cyber security techniques and tools used to create, secure, protect and remediate cyber-infrastructures from various cyber threats.
Pre-req: CS 430 with a minimum grade of D or CS 340 with a minimum grade of D.
Grade Mode: Normal Grading Mode

CS 440 Digital Image Processing **3 Credit hours**
Mathematical techniques, algorithms, and software tools for image sampling, quantization, coding and compression, enhancement, reconstruction, and analysis.
Pre-req: CS 210 and MTH 329.
Grade Mode: Normal Grading Mode

CS 452 Natural Language Processing **3 Credit hours**
Fundamental algorithms and computational models for core tasks in natural language processing: word and sentence tokenization, parsing, information and meaning extraction, spelling correction, text summarization, question answering, and sentiment analysis.
Pre-req: (CS 215 and MTH 220).
Grade Mode: Normal Grading Mode

CS 455 Systems Engineering **3 Credit hours**
Tools and techniques for optimizing the design and construction of software-intensive systems by considering system issues and making engineering tradeoffs in conflicting criteria and interacting decision parameters.
Pre-req: CS 330 and CS 340 and CS 350.
Grade Mode: Normal Grading Mode

CS 475 Internship **3-12 Credit hours**
An in-depth and hands-on involvement in a real-world project under direct professional supervision. The project may be on-campus or off-campus. Requires prior apporval of the internship director, who is a member of the computer science faculty.
Pre-req: CS 300 with a minimum grade of D or CS 215 with a minimum grade of D.
Grade Mode: Credit/No Credit Grade Only

CS 480 Special Topics **1-4 Credit hours**
EMERGING TOPICS IN COMPUTER SCIENCE.
Grade Mode: Normal Grading Mode

CS 481 Special Topics **1-4 Credit hours**
EMERGING TOPICS IN COMPUTER SCIENCE.
Grade Mode: Normal Grading Mode

CS 482 Special Topics **1-4 Credit hours**
EMERGING TOPICS IN COMPUTER SCIENCE.
Grade Mode: Normal Grading Mode

CS 483 Special Topics **1-4 Credit hours**
EMERGING TOPICS IN COMPUTER SCIENCE.
Grade Mode: Normal Grading Mode

CS 485 Independent Study **1-4 Credit hours**
EMERGING TOPICS IN COMPUTER SCIENCE.
Grade Mode: Normal Grading Mode

CS 486 Independent Study **1-4 Credit hours**
EMERGING TOPICS IN COMPUTER SCIENCE.
Grade Mode: Normal Grading Mode

CS 487 Independent Study **1-4 Credit hours**
EMERGING TOPICS IN COMPUTER SCIENCE.
Grade Mode: Normal Grading Mode

CS 488 Independent Study **1-4 Credit hours**
EMERGING TOPICS IN COMPUTER SCIENCE
Grade Mode: Normal Grading Mode

CS 490 Senior Project **3 Credit hours**
Application of technical and professional skills in solving a real-world problem in a team environment. Discuss professional code of conduct, societal issues, and transition from student to industry professional.
Pre-req: CS 310 with a minimum grade of D and CS 410 with a minimum grade of D.
Attributes: Capstone Course
Grade Mode: Normal Grading Mode

CS 491 Senior Project II **3 Credit hours**
Senior capstone experience. Application of technical and professional skills in constructing and testing a real-world problem in a team environment.
Pre-req: CS 490.
Grade Mode: Normal Grading Mode

Counseling (COUN)

COUN 263 AIDS Awareness **1 Credit hour**
Course designed to increase awareness of Human Immunodeficiency Virus and Acquired Immune Deficiency Syndrome, including: the virus,psycho social aspects, legal and religious issues, prevention, treatment. Course designed to increase awareness of Human Immunode- ficiency Virus and Acquired Immune Deficiency Syndrome, including: the virus,psycho social aspects, legal and religious issues, prevention, treatment.
Grade Mode: Normal Grading Mode

COUN 264 Group Guid Resident Setting I **1 Credit hour**
A Counselor Leadership training course focusing on basic peer helper and leadership skills. Specific areas include an overview of theory and concerns for college students living in residence halls. (PR: Permission) A Counselor Leadership training course focusing on basic peer helper and leadership skills. Specific areas include an overview of theory and concerns for college students living in residence halls. (PR: Permission)
Grade Mode: Normal Grading Mode

COUN 425 Counseling Theory & Tech **3 Credit hours**
Principles and practices of the interviewing relationship in helping service settings. Principles and practices of the interviewing relationship in helping service settings.
Pre-req: (CR 306 or COUN 306) and (CR 370 or COUN 370).
Co-req: COUN 470
Grade Mode: Normal Grading Mode

COUN 430 Case Devel Process/Manage **3 Credit hours**
Study of systematic development of casework to include case finding, follow-up provision of services, case recording and time management. Study of systematic development of casework to include case finding, follow-up provision of services, case recording and time management.
Pre-req: (CR 306 or COUN 306) and (CR 370 or COUN 370).
Grade Mode: Normal Grading Mode

COUN 455 Crisis Inter & Conf Res **3 Credit hours**
This course is directed to anyone who at some time has felt inadequate in responding effectively to people in crisis. Topics will include situational and developmental crisis. This course is directed to anyone who at some time has felt inadequate in responding effectively to people in crisis. Topics will include situational and developmental crisis.
Grade Mode: Normal Grading Mode

COUN 456 Death & Grief Coun **3 Credit hours**
Includes three areas of emphasis: To enable the student to come to grips with personal attitudes toward death and dying; to explore attitudes of society toward death; and to develop skills in managing the crisis of death terminal illness and bereavement. Includes three areas of emphasis: To enable the student to come to grips with personal attitudes toward death and dying; to explore attitudes of society toward death; and to develop skills in managing the crisis of death terminal illness and bereavement.
Grade Mode: Normal Grading Mode

COUN 461 Staff Development **1-4 Credit hours**
Attributes: Not Degree Applicable
Grade Mode: Credit/No Credit Grade Only

COUN 470 Adv Practicum Counseling **3 Credit hours**
Practical expriences in counseling interviews under professional supervision. Practical expriences in counseling interviews under professional supervision.
Pre-req: (CR 306 or COUN 306) and (CR 370 or COUN 370).
Co-req: COUN 425
Grade Mode: Normal Grading Mode

COUN 476 Counseling with Parents **3 Credit hours**
Consideration of effective parent counseling primarily from an Adlerian point of view. Techniques for counselor intervention via lecture demonstration and laboratory experiences. Consideration of effective parent counseling primarily from an Adlerian point of view. Techniques for counselor inter- vention via lecture demonstration and laboratory experi- ences.
Pre-req: (CR 370 or COUN 370) and (CR 306 or COUN 306).
Grade Mode: Normal Grading Mode

COUN 477 Stress Management Couns **3 Credit hours**
Provides beginning counselors and others with comprehensive information and strategies for successful management of stress and its consequences. Students explore theoretical and practical alternatives in counseling the stressed individual. Provides beginning counselors and others with comprehensive information and strategies for successful management of stress and its consequences. Students explore theoretical and practical alternatives in counseling the stressed individual.
Grade Mode: Normal Grading Mode

COUN 480 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

COUN 481 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

COUN 482 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

COUN 483 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

COUN 485 Independent Study **1-4 Credit hours**
Grade Mode: Normal Grading Mode

COUN 486 Independent Study **1-4 Credit hours**
Grade Mode: Normal Grading Mode

COUN 487 Independent Study **1-4 Credit hours**
Grade Mode: Normal Grading Mode

COUN 488 Independent Study **1-4 Credit hours**
Grade Mode: Normal Grading Mode

COUN 490 Counseling Internship **6-12 Credit hours**
This is a capstone and field experience that requires 200 hours of field placement along with a weekly on-campus seminar. This course is offered CR/NC. This is a capstone and field experience that requires 200 hours of field placement along with a weekly on-campus seminar. This course is offered CR/NC.
Pre-req: (CR 425 or COUN 425) and (CR 430 or COUN 430) and (CR 470 or COUN 470).
Grade Mode: Credit/No Credit Grade Only

COUN 494 Counseling Workshop **1-4 Credit hours**
A practical, participatory course designed for advanced students and professionals in the counseling field or related areas. A practical, participatory course designed for advanced students and professionals in the counseling field or related areas.
Grade Mode: Normal Grading Mode

Criminal Justice (CJ)

- General Education Course

CJ 200 Intro to Criminal Justice **3 Credit hours**
This survey course examines the various components of the criminal justice system, including law enforcement, courts, and corrections. Students will be introduced to various criminal justice agencies and career possibilities. This survey course examines the various components of the criminal justice system, including law enforcement, courts, and corrections. Students will be introduced to various criminal justice agencies and career possibilities.
Attributes: Core II Social Sciences
Grade Mode: Normal Grading Mode

CJ 211 Intro to Law Enforcement **3 Credit hours**
Designed to examine the philosophical and historical background of law enforcement in the United States. Addresses constitutional limitations on law enforcement, objectives of law enforcement, and processes of law enforcement. Designed to examine the philosophical and historical background of law enforcement in the United States. Addresses constitutional limitations on law enforcement, objectives of law enforcement, and processes of law enforcement.
Attributes: Core II Social Sciences
Grade Mode: Normal Grading Mode

CJ 221 Intro to Criminal Courts **3 Credit hours**
This course addresses the evolution of current functioning of the American criminal court system. Students are exposed to court administration, court procedures, and the state and federal court system. This course addresses the evolution of current functioning of the American criminal court system. Students are exposed to court administration, court procedures, and the state and federal court system.
Attributes: Core II Social Sciences
Grade Mode: Normal Grading Mode

CJ 223 Introduction to Legal Research **3 Credit hours**
An introduction to the processes and strategies involved in legal research. Students will develop an understanding of the sources of legal information and judgment in selecting appropriate sources and formats for specific projects.
Grade Mode: Normal Grading Mode

CJ 231 Intro to Corrections **3 Credit hours**
A survey of the historical development of the systems of punishment and rehabilitation. Analysis of the reasons for incarceration of offenders. A survey of the historical development of the systems of punishment and rehabilitation. Analysis of the reasons for incarceration of offenders.
Attributes: Core II Social Sciences
Grade Mode: Normal Grading Mode

CJ 280 Special Topics **1-4 Credit hours**
Lower level specialized courses of contemporary interest. Lower level specialized courses of contemporary interest.
Grade Mode: Normal Grading Mode

CJ 281 Special Topics **1-4 Credit hours**
Lower level specialized courses of contemporary interest. Lower level specialized courses of contemporary interest.
Grade Mode: Normal Grading Mode

CJ 282 Special Topics **1-4 Credit hours**
Lower level specialized courses of contemporary interest. Lower level specialized courses of contemporary interest.
Grade Mode: Normal Grading Mode

CJ 283 Special Topics **1-4 Credit hours**
Lower level specialized courses of contemporary interest. Lower level specialized courses of contemporary interest.
Grade Mode: Normal Grading Mode

CJ 300 Admin of Criminal Justice **3 Credit hours**
This course provides an analysis of the theories of organization and the administration of criminal justice agencies, including management styles, techniques of leadership, and decision-making.
Pre-req: CJ 200.
Grade Mode: Normal Grading Mode

CJ 302 CJ Research Methods **3 Credit hours**
Logic of social research methods, survey research, methods of evaluation, sampling, and the contrast between qualitative and quantitative CJ research.
Pre-req: CJ 200 with a minimum grade of D.
Grade Mode: Normal Grading Mode

CJ 314 Crime Scene & Investigations **3 Credit hours**
This course exposes students to crime scene processing techniques and technology, criminal investigation procedures, sources of information, interrogation, victim and witness interviewing, legal issues in criminal investigations.
Pre-req: CJ 211 with a minimum grade of D.
Grade Mode: Normal Grading Mode

CJ 322 Criminal Law **3 Credit hours**
History and development of criminal law, elements of a crime; parties to a crime, types of offenses. History and development of criminal law, elements of a crime; parties to a crime, types of offenses.
Pre-req: CJ 200 with a minimum grade of D.
Grade Mode: Normal Grading Mode

CJ 323 Criminal Procedure **3 Credit hours**
Admissibility of evidence and confessions, recent civil rights decisions, reconciling individual rights and community interest in law and order. Admissibility of evidence and confessions, recent civil rights decisions, reconciling individual rights and community interest in law and order.
Pre-req: CJ 200.
Attributes: Social Sciences
Grade Mode: Normal Grading Mode

CJ 325 Juvenile Justice **3 Credit hours**
A survey of the process--the police, the courts, and corrections--through which the juvenile delinquent passes. A survey of the process--the police, the courts, and corrections--through which the juvenile delinquent passes.
Pre-req: CJ 200 with a minimum grade of D.
Attributes: Social Sciences
Grade Mode: Normal Grading Mode

CJ 331 Probation & Parole **3 Credit hours**
Organization of systems of after-care treatment of juvenile and adult offenders released under probation and parole. Organization of systems of after-care treatment of juvenile and adult offenders released under probation and parole.
Pre-req: CJ 231 with a minimum grade of D.
Attributes: Social Sciences
Grade Mode: Normal Grading Mode

CJ 332 Correctional Rehab **3 Credit hours**
Examines the theories, treatment strategies and the role of the correctional counselor. Special emphasis is given to the topics of classification, development of treatment plans and principles of effective intervention. Examines the theories, treatment strategies and the role of the correctional counselor. Special emphasis is given to the topics of classification, development of treatment plans and principles of effective intervention.
Pre-req: CJ 231 with a minimum grade of D.
Grade Mode: Normal Grading Mode

CJ 340 Drugs and Crime **3 Credit hours**
Examines the history and consequences of mind-altering drugs, and criminal behavior as it is affected by drugs, the legal response to substance abuse, treatment and prevention of substance abuse.
Grade Mode: Normal Grading Mode

CJ 341 Victims of Crime **3 Credit hours**
Examines victims of crime, the process and consequences of victimization. Also covered are victims' rights and services available for victims and victim compensation.
Grade Mode: Normal Grading Mode

CJ 400 Applied Ethics in CJ **3 Credit hours**
Examines ethical issues and moral dilemmas faced by criminal justice professionals. Traditional ethical theories and practices designed to foster public trust in the criminal justice system are examined and applied.
Pre-req: CJ 200 with a minimum grade of D.
Grade Mode: Normal Grading Mode

CJ 403 Understanding Cybercrime **3 Credit hours**
Examination of hacking, piracy, cyber stalking, cyber bullying, identity theft, and other cybercrimes through the lens of various criminological theories with an emphasis on research methodology and criminal justice policy.
Grade Mode: Normal Grading Mode

CJ 404 Theoretical Criminology **3 Credit hours**
A critical analysis of the major criminological theories and their empirical foundations. Current theory and research receive greater emphasis than historical development.
Pre-req: CJ 200 with a minimum grade of D.
Grade Mode: Normal Grading Mode

CJ 405 Women & the CJS **3 Credit hours**
Examines factors surrounding women and the criminal justice system from a theoretical and practical perspective. Explores feminist ideologies, plus women as victims, offenders, and professionals in the justice system.
Pre-req: CJ 200 with a minimum grade of D.
Grade Mode: Normal Grading Mode

CJ 406 Race, Ethnicity, Class & Crime **3 Credit hours**
Examines the impact and relationship of race, ethnicity, and social class within the criminal justice system.
Pre-req: CJ 200.
Attributes: Multicultural
Grade Mode: Normal Grading Mode

CJ 410 Police Administration **3 Credit hours**
Functins and activities of police agencies. Police department organizations, responsibilities of upper level administrators. Current administrative experimentation on law enforcement agencies. Functins and activities of police agencies. Police depart- ment organizations, responsibilities of upper level administrators. Current administrative experimentation on law enforcement agencies.
Pre-req: CJ 211.
Grade Mode: Normal Grading Mode

CJ 415 Rural Criminology **3 Credit hours**
Critical analysis of rural crime and the criminological sub-field of rural criminology. Examines the economic, racial, and cultural conditions in rural America which reproduce exploitive economies and overall destructive behaviors.
Grade Mode: Normal Grading Mode

CJ 416 Terrorism **3 Credit hours**
Provides students with a working knowledge of the history of terrorism, the current status of terrorist groups, terrorism tactics, and methods to counteract terrorism.
Grade Mode: Normal Grading Mode

CJ 417 CJ Decision Making **3 Credit hours**
Focuses on theories of criminal justice decision-making and decision points across the criminal justice system. Topics include the decision to report crime, police decisions, jury decisions, and sentencing decisions.
Pre-req: CJ 200 with a minimum grade of D.
Grade Mode: Normal Grading Mode

CJ 418 Crime and Pop Culture **3 Credit hours**
A critical examination of the popular cutlure presentation of crime, offenders, victims, and the criminal justice process.
Pre-req: CJ 200 with a minimum grade of D.
Grade Mode: Normal Grading Mode

CJ 420 Homeland Security **3 Credit hours**
This course takes a comprehensive approach to studying the facets of homeland security, the complexity of homeland security and terrorism, defeating terrorists, and Homeland Security's response to terrorist threats.
Grade Mode: Normal Grading Mode

CJ 422 Law of Evidence **3 Credit hours**
Leading rules and principles of exclusion and selection; burden of proof, nature and effect of presumptions; proof of authenticity and contents of writings; examinations, compentency and privilege of witnesses. Leading rules and principles of exclusion and selection; burden of proof, nature and effect of presumptions; proof of authenticity and contents of writings; examinations, compentency and privilege of witnesses.
Pre-req: CJ 200.
Grade Mode: Normal Grading Mode

CJ 424 Computer Crime **3 Credit hours**
Students will identify and define criminal acts committed with computers or directed toward computer systems, electronic search and seizure and electronic evidence.
Grade Mode: Normal Grading Mode

CJ 426 Civil Liability Issues CJ **3 Credit hours**
This course examines various theories of civil liability that relate to Criminal Justice professionals, the civil justice system, and preventing and defending civil liability claims.
Pre-req: CJ 200 with a minimum grade of D.
Grade Mode: Normal Grading Mode

CJ 433 Correctional Administration **3 Credit hours**
Objectives of correctional institutions; records; personnel, program development, security; educational programs. Objectives of correctional institutions; records; personnel, program development, security; educational programs.
Pre-req: CJ 231.
Grade Mode: Normal Grading Mode

CJ 440 CJ Response to Dom Violence **3 Credit hours**
This course focuses on the legal response to child abuse, domestic violence, and elder abuse. Examines dynamics of abusive relationships, the effects of victimization, and current research on these issues.
Grade Mode: Normal Grading Mode

CJ 450 Business & Industrial Security **3 Credit hours**
Selection, training, and staffing of a security force; security devices available; techniques of internal security; ground security; security techniques applicable to personnel selection; legal problems. CJ majors only.
Pre-req: CJ 200 with a minimum grade of D.
Grade Mode: Normal Grading Mode

CJ 453 Seminar in Crime Prevention **3 Credit hours**
This course examines theory, operation, and evaluation of crime prevention as a function of the criminal justice system. Techniques for crime prevention are analyzed from various orientations, including environmental design.
Pre-req: CJ 200 with a minimum grade of D.
Grade Mode: Normal Grading Mode

CJ 460 Miscarriages of Justice **3 Credit hours**
This course provides a critical examination of the processes and procedures used by police, prosecutors, defense attorneys, judges, and corrections agents which may potentially produce errors or "miscarriages" of justice.
Pre-req: CJ 200.
Grade Mode: Normal Grading Mode

CJ 480 Special Topics **1-4 Credit hours**
A study of special interest criminal justice topics under the supervision of a qualified faculty member. A study of special interest criminal justice topics under the supervision of a qualified faculty member.
Grade Mode: Normal Grading Mode

CJ 481 Special Topics **1-4 Credit hours**
A study of special interest criminal justice topics under the supervision of a qualified faculty member. A study of special interest criminal justice topics under the supervision of a qualified faculty member.
Grade Mode: Normal Grading Mode

CJ 482 Special Topics **1-4 Credit hours**
A study of special interest criminal justice topics under the supervision of a qualified faculty member. A study of special interest criminal justice topics under the supervision of a qualified faculty member.
Grade Mode: Normal Grading Mode

CJ 483 Special Topics **1-4 Credit hours**
A study of special interest criminal justice topics under the supervision of a qualified faculty member. A study of special interest criminal justice topics under the supervision of a qualified faculty member.
Grade Mode: Normal Grading Mode

CJ 485 Independent Study **1-4 Credit hours**
This course permits the student to undertake supervised research (field or library) in any area where there is no appropriate course. This course permits the student to undertake supervised research (field or library) in any area where there is no appropriate course.
Grade Mode: Normal Grading Mode

CJ 486 Independent Study **1-4 Credit hours**
This course permits the student to undertake supervised research (field or library) in any area where there is no appropriate course. This course permits the student to undertake supervised research (field or library) in any area where there is no appropriate course.
Grade Mode: Normal Grading Mode

CJ 487 Independent Study **1-4 Credit hours**
This course permits the student to undertake supervised research (field or library) in any area where there is no appropriate course. This course permits the student to undertake supervised research (field or library) in any area where there is no appropriate course.
Grade Mode: Normal Grading Mode

CJ 488 Independent Study **1-4 Credit hours**
This course permits the student to undertake supervised research (field or library) in any area where there is no appropriate course. This course permits the student to undertake supervised research (field or library) in any area where there is no appropriate course.
Grade Mode: Normal Grading Mode

CJ 490 Internship **1-6 Credit hours**
The placement of an individual into a criminal justice ageny (police, probation, courts, jails) to observe and participate in its operation. Grading is CR/NC only. The placement of an individual into a criminal justice ageny (police, probation, courts, jails) to observe and participate in its operation. Grading is CR/NC only.
Grade Mode: Credit/No Credit Grade Only

CJ 492 Senior Seminar **3 Credit hours**
Capstone course. Integrates and applies material learned in the program of study. Serves as a culminating experience in which students demonstrate what they have learned in the classroom.
Pre-req: (CJ 200 with a minimum grade of D and CJ 302 with a minimum grade of D and CJ 404 with a minimum grade of D).
Attributes: Capstone Course
Grade Mode: Normal Grading Mode

Curr Inst Special Ed (CISP)

- General Education Course

CISP 101 American Sign Language I **3 Credit hours**
This is the first of 4 courses in American Sign Language. This course emphasizes the learning of basic survival conversational signing skills, including use of all ASL grammatical structures.
Grade Mode: Normal Grading Mode

CISP 102 American Sign Language II **3 Credit hours**
This is the second of 4 courses in American Sign Language. This course emphasizes the learning of intermediate conversational signing skills, including use of all ASL grammatical structures.
Pre-req: CISP 101 with a minimum grade of D.
Grade Mode: Normal Grading Mode

CISP 203 American Sign Language III **3 Credit hours**
This is the third of 4 courses in American Sign Language. This course emphasizes the learning of advanced conversational signing skills, including use of all ASL grammatical structures.
Pre-req: CISP 101 with a minimum grade of D and CISP 102 with a minimum grade of D.
Grade Mode: Normal Grading Mode

CISP 204 American Sign Language IV **3 Credit hours**
This is the fourth of 4 courses in American Sign Language. This course emphasizes the learning of complex conversational signing skills, including use of all ASL grammatical structures.
Pre-req: CISP 101 with a minimum grade of D and CISP 102 with a minimum grade of D and CISP 203 with a minimum grade of D.
Grade Mode: Normal Grading Mode

CISP 320 Survey Exceptional Child **3 Credit hours**
An introduction to the study of children who deviate from the average in mental, physical, and emotional characteristics, including a study of the characteristics of such children and the adaptation of educational procedures to their abilities and disabilities.
Pre-req: CISP 420 (may be taken concurrently) with a minimum grade of C.
Concurrent PR: CISP 420
Grade Mode: Normal Grading Mode

CISP 420 Survey Except Child II **3 Credit hours**
Examination of procedures needed for implementation of the Resource Room model for mildly handicapped children. The course includes a review of the Mainstreaming movement, interpersonal relations, and skills necessary for maintaining the resource room.
Pre-req: CISP 320 (may be taken concurrently) with a minimum grade of C.
Concurrent PR: CISP 320
Grade Mode: Normal Grading Mode

CISP 421 Child with Exceptionalities **3 Credit hours**
Behavioral characteristics of children with exceptional development, dynamics of family- community interaction, and attitudes towards exceptional conditions. Implications for amelioration and educational planning.
Grade Mode: Normal Grading Mode

CISP 422 Differentiate Instruction **3 Credit hours**
Research-based strategies for providing differentiated instruction to students with diverse learning, social, and behavioral needs who are being educated in inclusive settings.
Pre-req: CISP 421 with a minimum grade of C.
Grade Mode: Normal Grading Mode

CISP 423 Sp Ed Learning Disability **3 Credit hours**
Grade Mode: Normal Grading Mode

CISP 424 Sp Ed Emotional Disturb **3 Credit hours**
Grade Mode: Normal Grading Mode

CISP 427 Introduction to Autism **3 Credit hours**
This course is designed to survey current issues in education and the treatment of students with autism spectrum disorder (ASD).
Grade Mode: Normal Grading Mode

CISP 428 Special Needs in Erly Child Ed **3 Credit hours**
Emphasis will be given to enhancing the success of diverse learners through intervention strategies, family involvement and interdisciplinary service delivery. Emphasis will be given to enhancing the success of diverse learners through intervention strategies, family involvement and interdisciplinary service delivery.
Pre-req: Admitted to Teacher ED with a score of 4 and CISP 421 with a minimum grade of C or (CISP 320 with a minimum grade of C and CISP 420 with a minimum grade of C).
Grade Mode: Normal Grading Mode

CISP 429 Intro Developmental Disability **3 Credit hours**
Introduction to the characteristics and needs of young children with developmental disabilities addressing the physical, neurological, health , and environmental problems that impact atypical growth and development (PR: CISP 320, CR: Field Experience)
Pre-req: Admitted to Teacher ED with a score of 4 and CISP 420 with a minimum grade of C.
Grade Mode: Normal Grading Mode

CISP 433 Intro Intellect Disabilities **3 Credit hours**
Characteristics and needs of individuals with intellectual disabilites. Current research, etiologic factors and the impact of intellectual disabilities on education are emphasized. Includes a field experience. (PR: CISP 320)
Pre-req: Admitted to Teacher ED with a score of 4 and CISP 420.
Grade Mode: Normal Grading Mode

CISP 434 Sp Ed St Tch Phys Handicap **4-6 Credit hours**
Grade Mode: Credit/No Credit Grade Only

CISP 435 Gen Spec Ed Programming **3 Credit hours**
Pre-req: Admitted to Teacher ED with a score of 4 and CISP 420.
Grade Mode: Normal Grading Mode

CISP 438 Char/Behav Mild/Mod Disability **3 Credit hours**
An introduction to positive behavior supports at the school, classroom, and individual level to improve student behavior and academic engagement.
Pre-req: CISP 320 and CISP 420.
Grade Mode: Normal Grading Mode

CISP 439 Assessment in Sp Ed **3 Credit hours**
Pre-req: Admitted to Teacher ED with a score of 4 and CISP 420.
Grade Mode: Normal Grading Mode

CISP 440 Stu Teach Multicategorical **4-6 Credit hours**
Attributes: Capstone Course
Grade Mode: Credit/No Credit Grade Only

CISP 445 Intervent Preschool Sp Ed **3 Credit hours**
Curriculum development and methodology used to teach young children with special needs. Integration, program development, management, material and equipment adaptation are emphasized.
Pre-req: CISP 428 with a minimum grade of D.
Grade Mode: Normal Grading Mode

CISP 453 Curr Methods Mild to Moderate **3 Credit hours**
Principals and current trends in curriculum development and teaching methodology for individuals with mild to moderate disabilities are reviewed and evaluated (PR: CISP 320, CISP 420)
Pre-req: Admitted to Teacher ED with a score of 4 and CISP 320.
Grade Mode: Normal Grading Mode

CISP 454 Families of Except Students **3 Credit hours**
Principles and information designed to give the student an understanding of the needs and rights of families of exceptional children and techniques to involve families successfully in their children's education.
Grade Mode: Normal Grading Mode

CISP 455 Field Exp Preschool Sp Ed **3 Credit hours**
Supervised participation and directed teaching activities in a preschool special education program.
Pre-req: CISP 445 with a minimum grade of C.
Grade Mode: Normal Grading Mode

CISP 461 Staff Development **1-4 Credit hours**
Attributes: Not Degree Applicable
Grade Mode: Credit/No Credit Grade Only

CISP 462 Staff Development **1-4 Credit hours**
Attributes: Not Degree Applicable
Grade Mode: Credit/No Credit Grade Only

CISP 480 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

Curriculum & Instruction (CI)

- General Education Course

CI 100 Critical Thinking in Educ (CT) **3 Credit hours**
An introduction to the critical thinking skills in education, an orientation of the teaching profession, and an overview of the historical, sociological, multicultural, and philosophical issues affecting schools and teachers. An introduction to the critical thinking skills in education, an orientation of the teaching profession, and an overview of the historical, sociological, multicultural, and philosophical issues affecting schools and teachers.
Attributes: Critical Thinking
Grade Mode: Normal Grading Mode

CI 101 Math for Elem Teachers I **3 Credit hours**
The study of the foundations of elementary mathematics including numeration systems, number theory, and consumer mathematics with emphasis on problem solving and teaching strategies.
Pre-req: MTH 130 with a minimum grade of D or MTH 130H with a minimum grade of D or MTH 127 with a minimum grade of D.
Grade Mode: Normal Grading Mode

CI 102 Intro Comp in Classroom **1 Credit hour**
The introduction of selection and evaluation techniques of computer courseware and hardware for classrooms K-12 with consideration for CAI, CMI and specific skills for K-12 students. The introduction of selection and evaluation techniques of computer courseware and hardware for classrooms K-12 with consideration for CAI, CMI and specific skills for K-12 students.
Grade Mode: Normal Grading Mode

CI 201 Math for Elem Teachers II **3 Credit hours**
Study of elementary mathematics including structure of the real number system, statistics, probability, informal and transformational geometry, and basic algebraic operations with emphasis on problem solving and teaching strategies. Study of elementary mathematics including structure of the real number system, statistics, probability, informal and transformational geometry, and basic algebraic operations with emphasis on problem solving and teaching strategies.
Pre-req: CI 101 with a minimum grade of C and (MTH 127 with a minimum grade of D or MTH 130 with a minimum grade of D).
Grade Mode: Normal Grading Mode

CI 248 Intro to Science Elem Ed **4 Credit hours**
Introduction to teaching science in elementary schools emphasizing inquiry-based science and engineering practices utilizing effective research-based teaching strategies including seminars, discussions and investigations.
Pre-req: MTH 127 with a minimum grade of D or MTH 130 with a minimum grade of D.
Grade Mode: Normal Grading Mode

CI 280 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

CI 281 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

CI 282 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

CI 283 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

CI 298 Itv **1-4 Credit hours**
A course based upon an Instructional Television Series broadcast by public television. The student is responsible for viewing the series on the air and satisfying all course requirements announced by the division. A course based upon an Instructional Television Series broadcast by public television. The student is responsible for viewing the series on the air and satisfying all course requirements announced by the division.
Grade Mode: Normal Grading Mode

CI 301 Teach Elem/Middle Mathematics **3 Credit hours**
This course is an investigation of techniques and approaches to helping children learn mathematics with special emphasis on the use of manipulative materials in a laboratory setting.
Pre-req: CI 201 with a minimum grade of C and Admitted to Teacher ED with a score of 4.
Grade Mode: Normal Grading Mode

CI 321 ECE Curr and Methods **3 Credit hours**
Study of factors shaping curriculum and exploration and assessment of appropriate curriculum for young children in transition from pre-operational to concrete operational stages of development. Field experience included. Study of factors shaping curriculum and exploration and assessment of appropriate curriculum for young children in transition from pre-operational to concrete operational stages of development. Field experience included.
Pre-req: Admitted to Teacher ED with a score of 4.
Grade Mode: Normal Grading Mode

CI 342 Lit & Lang Arts Methods **3 Credit hours**
A study of literary genres' characteristics and implementation within the elementary classroom, with emphasis on methods of presentation and a review of English grammar and language.
Grade Mode: Normal Grading Mode

CI 343 The Process of Reading Part I **3 Credit hours**
Study of modern techniques and practices in the teaching and assessment of reading and language arts: Part 1
Pre-req: CI 342 with a minimum grade of C.
Grade Mode: Normal Grading Mode

CI 345 Crit Read Writ & Think **3 Credit hours**
This course examines strategies for learning from text, studying different types of textual material, monitoring learning, and integrating oral and written discourse. This course examines strategies for learning from text, studying different types of textual material, monitoring learning, and integrating oral and written discourse.
Pre-req: Admitted to Teacher ED with a score of 4.
Grade Mode: Normal Grading Mode

CI 348 Phy Sci & Engr for Elem Ed **4 Credit hours**
General elementary education course with emphasis on Next Generation Science standards, methods, and content for Physical Science and Engineering practices.
Pre-req: MTH 130 with a minimum grade of D or MTH 127 with a minimum grade of D.
Grade Mode: Normal Grading Mode

CI 350 Inst Tech & Computing **3 Credit hours**
Critical examination and skill development using commercial, non-commercial, and computer generated media. Emphasis will be placed on its application to teaching and learning.
Grade Mode: Normal Grading Mode

CI 360 Social Studies Methods Elem **3 Credit hours**
An introduction to materials and methods for teaching social studies in the elementary school including goals, processes, strategies, and evaluation. An introduction to materials and methods for teaching social studies in the elementary school - including goals, pro- cesses, strategies, and evaluation.
Pre-req: Admitted to Teacher ED with a score of 4.
Grade Mode: Normal Grading Mode

CI 367 Org for Inst in ECE **3 Credit hours**
An overview of the development of early childhood education related research, pre-primary program models, elementary school organizational patterns, program planning and techniques of working with parents. An overview of the development of early childhood educa- tion related research, pre-primary program models, elementary school organizational patterns, program planning and techniques of working with parents.
Grade Mode: Normal Grading Mode

CI 401 Middle Childhood Curric **3 Credit hours**
Study of procedures for creating a functional middle childhood curriculum with emphasis upon the needs of transecents. Study of procedures for creating a functional middle child- hood curriculum with emphasis upon the needs of transecents.
Pre-req: Admitted to Teacher ED with a score of 4.
Grade Mode: Normal Grading Mode

CI 402 Teach Mid Child Learners **3 Credit hours**
The study of methods appropriate for teaching in the middle childhood grades and the production and utilization of materials and resources based upon the needs of middle childhood learners.
Pre-req: Admitted to Teacher ED with a score of 4.
Grade Mode: Normal Grading Mode

CI 403 Meth Teach Mid Child Grd **3 Credit hours**
Study of methods appropriate for teaching in the middle childhood grades, and production and utilization of materials and resources in these grades. Middle school clinical experience is required.
Pre-req: Admitted to Teacher ED with a score of 4 and CI 401 with a minimum grade of C.
Grade Mode: Normal Grading Mode

CI 405 Student Teaching-Elem Ed **4-12 Credit hours**
All-day teaching under supervision in cooperating schools; periodic seminars, conducted by University faculty, accompany student teaching. All-day teaching under supervision in cooperating schools; periodic seminars, conducted by University faculty, accompany student teaching.
Attributes: Capstone Course
Grade Mode: Credit/No Credit Grade Only

CI 406 Student Teaching II Elem Ed **4-6 Credit hours**
Supervised student teaching (4-6 hrs). All-day teaching under supervision in cooperating schools. Periodic semiars conducted by university faculty accompany student teaching. Prerequisites: Methods and permission.
Attributes: Capstone Course
Grade Mode: Credit/No Credit Grade Only

CI 410 Stu Teach-Early Childhood **4-6 Credit hours**
All-day kindergarten teaching under supervision in cooperating schools; periodic seminars, conducted by University faculty, accompany student teaching. All-day kindergarten teaching under supervision in co- operating schools; periodic seminars, conducted by University faculty, accompany student teaching.
Attributes: Capstone Course
Grade Mode: Credit/No Credit Grade Only

CI 415 Int Meth & Mat: Sec Ed **3 Credit hours**
General secondary/middle school course with emphasis on instructional standards and objectives, methods, and materials of the disciplines. A clinical experience provides observation and teaching. General secondary/middle school course with emphasis on instructional standards and objectives, methods, and materials of the disciplines. A clinical experience provides observation and teaching.
Pre-req: Admitted to Teacher ED with a score of 5.
Co-req: CI 470
Grade Mode: Normal Grading Mode

CI 427 Introduction To Autism **3 Credit hours**
This is a lecture-discussion course designed to survey current autism definitions, rates of incidence, conceptual models, and educational designs relating to autistic children, youth, and adults. This is a lecture-discussion course designed to survey current autism definitions, rates of incidence, conceptual models, and educational designs relating to autistic children, youth, and adults.
Grade Mode: Normal Grading Mode

CI 442 Instr & Clrm Mgt in Elem Ed **3 Credit hours**
This course allows elementary education students to critically examine a variety of classroom management strategies and educational issues that impact instruction. PR: Full admission to the Teacher Education Program This course allows elementary education students to critically examine a variety of classroom management strategies and educational issues that impact instruction. PR: Full admission to the Teacher Education Program
Pre-req: Admitted to Teacher ED with a score of 4.
Grade Mode: Normal Grading Mode

CI 446 The Process of Reading Part II **3 Credit hours**
Study of modern techniques and practices in the teaching and assessment of reading and language arts: Part 2
Pre-req: CI 342 with a minimum grade of C.
Grade Mode: Normal Grading Mode

CI 447 Inte Read/Lang Arts: Elem Edu **3 Credit hours**
General K-6 course with emphasis on instructional standards and objectives, methods, and materials for Reading, Language Arts and Social Studies. General K-6 course with emphasis on instructional standards and objectives, methods, and materials for Reading, Language Arts and Social Studies.
Pre-req: Admitted to Teacher ED with a score of 5 and CI 343 with a minimum grade of C and CI 446 with a minimum grade of C.
Co-req: CI 471
Grade Mode: Normal Grading Mode

CI 448 Science Methods: Elem Edu **3 Credit hours**
General K-6 course with emphasis on instructional standards and objectives, methods and materials for mathematics and science. General K-6 course with emphasis on instructional standards and objectives, methods and materials for mathematics and science.
Pre-req: CI 201 with a minimum grade of C and Admitted to Teacher ED with a score of 4 and BSC 105 with a minimum grade of C and CI 248 with a minimum grade of C.
Grade Mode: Normal Grading Mode

CI 449 Instr & Clarm Mgt Sec Ed **3 Credit hours**
Classroom management with emphasis on practical techniques for dealing with management problems in secondary and middle school settings. Classroom management with emphasis on practical techniques for dealing with management problems in secondary and middle school settings.
Pre-req: Admitted to Teacher ED with a score of 4.
Grade Mode: Normal Grading Mode

CI 450 Stu Teach Secondary Ed **4-12 Credit hours**
All-day teaching under supervision in cooperating schools; periodic seminars conducted by University faculty accompany student teaching. All-day teaching under supervision in cooperating schools; periodic seminars conducted by University faculty accompany student teaching.
Attributes: Capstone Course
Grade Mode: Credit/No Credit Grade Only

CI 452 Mce: Supervised Stu Teach **4-6 Credit hours**
All-day student teaching in cooperating middle schools; periodic seminars conducted by University faculty accompany student teaching. All-day student teaching in cooperating middle schools; periodic seminars conducted by University faculty accompany student teaching.
Attributes: Capstone Course
Grade Mode: Credit/No Credit Grade Only

CI 455 Student Teaching II Sec Ed **4-6 Credit hours**
Supervised student teaching (4-6 hrs). All-day teaching under supervision in cooperating schools. Periodic seminars conducted by university faculty accompany student teaching. Prerequisites: Methods and permission.
Attributes: Capstone Course
Grade Mode: Credit/No Credit Grade Only

CI 459 Multicult Influence in Ed **3 Credit hours**
Multicultural education with an emphasis on methods and materials for teaching students from diverse cultural backgrounds. Multicultural education with an emphasis on methods and materials for teaching students from diverse cultural backgrounds.
Attributes: Multicultural
Grade Mode: Normal Grading Mode

CI 460 Staff Development **1-3 Credit hours**
Attributes: Not Degree Applicable
Grade Mode: Credit/No Credit Grade Only

CI 461 Staff Development **1-3 Credit hours**
Attributes: Not Degree Applicable
Grade Mode: Credit/No Credit Grade Only

CI 462 Staff Development **1-3 Credit hours**
Attributes: Not Degree Applicable
Grade Mode: Credit/No Credit Grade Only

CI 463 Staff Development **1-3 Credit hours**
Attributes: Not Degree Applicable
Grade Mode: Credit/No Credit Grade Only

CI 464 Staff Development **1-3 Credit hours**
Attributes: Not Degree Applicable
Grade Mode: Credit/No Credit Grade Only

CI 470 Level II Clinical Exp **0 Credit hours**
A Level II Clinical Experience teaching in an elementary or secondary public school. An opportunity to put theory into classroom practice. A Level II Clinical Experience teaching in an elementary or secondary public school. An opportunity to put theory into classroom practice.
Pre-req: Admitted to Teacher ED with a score of 5.
Co-req: CI 415
Grade Mode: Credit/No Credit Grade Only

CI 471 Level II Clinical Exp **0 Credit hours**
A Level II Clinical Experience teaching in an elementary school. An opportunity to put theory into classroom practice. A Level II Clinical Experience teaching in an elementary school. An opportunity to put theory into classroom practice.
Pre-req: Admitted to Teacher ED with a score of 5.
Co-req: CI 447
Grade Mode: Credit/No Credit Grade Only

CI 472 Level II Clinical Exp **0 Credit hours**
A Level II Clinical Experience teaching in an elementary or secondary public school. An opportunity to put theory into classroom practice.
A Level II Clinical Experience teaching in an elementary or secondary public school. An opportunity to put theory into classroom practice.
Pre-req: Admitted to Teacher ED with a score of 5.
Grade Mode: Credit/No Credit Grade Only

CI 480 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

CI 481 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

CI 482 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

CI 483 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

CI 485 Independent Study **1-4 Credit hours**
Grade Mode: Normal Grading Mode

CI 486 Independent Study **1-4 Credit hours**
Grade Mode: Normal Grading Mode

CI 487 Independent Study **1-4 Credit hours**
Grade Mode: Normal Grading Mode

CI 488 Independent Study **1-4 Credit hours**
Grade Mode: Normal Grading Mode

Cyber Forensics and Security (CFS)

- General Education Course

CFS 200 Introduction to CFS **3 Credit hours**
This course teaches student how information is recovered from electronic devices and the forensic techniques used to perform forensic examinations. In addition, legal issues regarding electronic data will be discussed.
Grade Mode: Normal Grading Mode

CFS 261 Introduction to Linux **3 Credit hours**
An introductory course for the Linux operating system, focusing on its application in information assurance and the digital forensics.
Pre-req: CFS 200 with a minimum grade of D or IST 264 with a minimum grade of D or IST 280 with a minimum grade of D or DFIA 200 with a minimum grade of D.
Grade Mode: Normal Grading Mode

CFS 305 Open Source Intelligence **3 Credit hours**
This course identifies and demonstrates free online resources that can aid investigators in searching the Internet for resources that can be applied to domestic and international investigations.
Pre-req: CFS 200 with a minimum grade of D or IST 264 with a minimum grade of D or IST 280 with a minimum grade of D or DFIA 200 with a minimum grade of D.
Grade Mode: Normal Grading Mode

CFS 357 Network Penetration and Attack **4 Credit hours**
Students will explore tools and techniques used to penetrate, exploit and ex filtrate data from computers and networks.
Pre-req: CFS 200 with a minimum grade of D or IST 264 with a minimum grade of D or IST 280 with a minimum grade of D or DFIA 200 with a minimum grade of D.
Grade Mode: Normal Grading Mode

CFS 400 Intro to Cyber Forensics **3 Credit hours**
This course teaches students how information is recovering from electronic devices and the forensic techniques used to perform forensic examinations. In addition, legal issues regarding electronic data will be discussed.
Pre-req: CFS 200 with a minimum grade of D or IST 264 with a minimum grade of D or IST 280 with a minimum grade of D or DFIA 200 with a minimum grade of D.
Grade Mode: Normal Grading Mode

CFS 405 OSINT Practicum **3 Credit hours**
Grade Mode: Normal Grading Mode

CFS 406 OSINT Practicum II **3 Credit hours**
Grade Mode: Normal Grading Mode

CFS 410 Collegiate Cyber Competition I **3 Credit hours**
Pre-req: CFS 200 with a minimum grade of D.
Grade Mode: Normal Grading Mode

CFS 411 Collegiate Cyber Comp II **3 Credit hours**
Pre-req: CFS 200 with a minimum grade of D.
Grade Mode: Normal Grading Mode

CFS 420 Incident Response **3 Credit hours**
This course examines forensic and investigative aspects of a network intrusion. Topics include pre-incident preparation, developing leads, scoping an incident, forensic data collection, evidence form hosts, networks, and enterprise environments.
Pre-req: CFS 400 with a minimum grade of D.
Grade Mode: Normal Grading Mode

CFS 430 Exploit Development **3 Credit hours**
Students will learn the skills required to reverse-engineer 32-bit and 64-bit applications, perform remote user application, analyze patches for 1-day exploits, and write complex modern software and operating systems.
Pre-req: CFS 200 with a minimum grade of D or IST 264 with a minimum grade of D or IST 280 with a minimum grade of D or DFIA 200 with a minimum grade of D.
Grade Mode: Normal Grading Mode

CFS 440 Digital Evidence **4 Credit hours**
Concepts of computer forensics, including handling digital evidence, case preparation, forensic imaging, data recovery, password cracking, e-mail analysis, and report writing. Proper usage of difference forensic tools is emphasized.
Pre-req: CFS 200 with a minimum grade of D or IST 264 with a minimum grade of D or IST 280 with a minimum grade of D or DFIA 200 with a minimum grade of D.
Grade Mode: Normal Grading Mode

CFS 445 Mobile & Web Pen Testing **3 Credit hours**
This course is designed to teach students the advanced skills and techniques required to test mobile and web applications.
Pre-req: CFS 200 with a minimum grade of D or IST 264 with a minimum grade of D or IST 280 with a minimum grade of D or DFIA 200 with a minimum grade of D.
Grade Mode: Normal Grading Mode

CFS 448 Multimedia Forensics **3 Credit hours**
Course will introduce principles of multimedia forensics and their application to digital forensics. Practical forensics enhancements and analysis techniques, including how to prepare forensically-sound exhibits are covered.
Pre-req: CFS 200 with a minimum grade of D or IST 264 with a minimum grade of D or IST 280 with a minimum grade of D or DFIA 200 with a minimum grade of D.
Grade Mode: Normal Grading Mode

CFS 454 Network Defense **4 Credit hours**
An in-depth examination of the principles, strategies, and tools used to defend, detect, and respond to a variety of common network attacks.
Pre-req: CFS 200 with a minimum grade of D.
Grade Mode: Normal Grading Mode

CFS 460 Applied Cyber Forensics **4 Credit hours**
Introduction to the principles, practices and tools of digital forensics and electronic discovery. Hands-on exercises in a simulated real-world environment are a critical component of the course.
Pre-req: CFS 400 with a minimum grade of D.
Grade Mode: Normal Grading Mode

CFS 461 Cyber Warfare **3 Credit hours**
Broad examination of this new form of conflict including the role of nation states, the challenge of attribution, potential impact on the physical world, and current government policy and doctrine.
Pre-req: CFS 200 with a minimum grade of D or IST 264 with a minimum grade of D or IST 280 with a minimum grade of D or DFIA 200 with a minimum grade of D.
Grade Mode: Normal Grading Mode

CFS 462 Network Forensics **4 Credit hours**
Examination of techniques and tools used to investigate, search, collect, analyze, and report on network based breaches and events.
Pre-req: (CFS 200 with a minimum grade of D or IST 264 with a minimum grade of D or DFIA 200 with a minimum grade of D) and CFS 400 with a minimum grade of D and CFS 261 with a minimum grade of D and CIT 352 with a minimum grade of D.
Grade Mode: Normal Grading Mode

CFS 464 Network Security **3 Credit hours**
Addresses security issues for TCP/IP-based networks, Access Control and Communications are covered as well as Internet security in areas of cryptography, protocols, applications, encryption, hash functions digital signatures, etc.
Pre-req: CFS 200 with a minimum grade of D.
Grade Mode: Normal Grading Mode

CFS 467 Mobile Device Forensics **4 Credit hours**
Identification, preservation, collection, analysis, and reporting techniques and tools used in the forensics examination of mobile devices such as cell phones and GPS units.
Pre-req: CFS 400 with a minimum grade of D and (CFS 200 with a minimum grade of D or DFIA 200 with a minimum grade of D or IST 264 with a minimum grade of D).
Grade Mode: Normal Grading Mode

CFS 470 Internship **3 Credit hours**
Grade Mode: Normal Grading Mode

CFS 480 Special Topics **3 Credit hours**
Grade Mode: Normal Grading Mode

CFS 485 Independent Study **3-6 Credit hours**
Grade Mode: Normal Grading Mode

CFS 490 Capstone **3 Credit hours**
This course reinforces assesses the student's ability to apply core digital forensics and information assurance knowledge and skills in a series of realistic practical exercises.
Pre-req: CFS 357 with a minimum grade of D and CFS 460 with a minimum grade of D and CFS 467 with a minimum grade of D.
Attributes: Capstone Course
Grade Mode: Normal Grading Mode

CFS 491 Research **3-6 Credit hours**
Students will explore and apply common research methods used in digital forensics and information assurance. Students will complete a research project including a paper or poster during the semester.
Grade Mode: Normal Grading Mode

Dance (DAN)

- General Education Course

DAN 101 Introduction to Dance **3 Credit hours**
Introduction to dance forms, principles of dance techniques, and role of dance in society. Introduction to dance forms, principles of dance techniques, and role of dance in society.
Grade Mode: Normal Grading Mode

DAN 205 Dance for Musical Theatre **3 Credit hours**
Introduction to various dance forms and styles necessary for musical theatre. Training in rhythm and coordination with emphasis on elementary techniques and routines. Introduction to various dance forms and styles necessary for musical theatre. Training in rhythm and coordination with emphasis on elementary techniques and routines.
Grade Mode: Normal Grading Mode

DAN 210 Tap Dance **2 Credit hours**
Technique, styles, an rhythmic structures of tap dance for the theatre. Emphasis on steps, movement, and routines. Course may be repeated for total of four hours credit. 2 lec-2 lab. Technique, styles, an rhythmic structures of tap dance for the theatre. Emphasis on steps, movement, and routines. Course may be repeated for total of four hours credit. 2 lec-2 lab.
Grade Mode: Normal Grading Mode

DAN 230 Ballet Technique **2 Credit hours**
Classical ballet technique, exercise, routine, and drill for the dancer. Course may be repeated for a total of eight hours credit. 2 lec-2 lab. Classical ballet technique, exercise, routine, and drill for the dancer. Course may be repeated for a total of eight hours credit. 2 lec-2 lab.
Grade Mode: Normal Grading Mode

DAN 270 Practicum **1 Credit hour**
Opportunity to study and perform concert dance. Opportunity to study and perform concert dance.
Grade Mode: Normal Grading Mode

DAN 280 Special Topics **1-4 Credit hours**
Program of study not normally covered in other courses. Topics vary from semester to semester. Program of study not normally covered in other courses. Topics vary from semester to semester.
Grade Mode: Normal Grading Mode

DAN 281 Special Topics **1-4 Credit hours**
Program of study not normally covered in other courses. Topics vary from semester to semester. Program of study not normally covered in other courses. Topics vary from semester to semester.
Grade Mode: Normal Grading Mode

DAN 282 Special Topics **1-4 Credit hours**
Program of study not normally covered in other courses. Topics vary from semester to semester. Program of study not normally covered in other courses. Topics vary from semester to semester.
Grade Mode: Normal Grading Mode

DAN 283 Special Topics **1-4 Credit hours**
Program of study not normally covered in other courses. Topics vary from semester to semester. Program of study not normally covered in other courses. Topics vary from semester to semester.
Grade Mode: Normal Grading Mode

DAN 305 Dance for Musical Theatre **3 Credit hours**
Various dance forms and styles necessary for musical theatre. Training in rhythm and coordination with emphasis on classic and modern techniques and routines. PR: Department Permission
Grade Mode: Normal Grading Mode

DAN 316 Modern Jazz Dance **2 Credit hours**
Techniques, styles, and rhythmic structures of modern jazz dance. Emphasis on increasing personal expression and dance movement repertoire. Course may be repeated for total of six hours credit. 2 lec-2 lab. Techniques, styles, and rhythmic structures of modern jazz dance. Emphasis on increasing personal expression and dance movement repertoire. Course may be repeated for total of six hours credit. 2 lec-2 lab.
Grade Mode: Normal Grading Mode

DAN 320 Modern Dance Technique **2 Credit hours**
Principles, movement, and performance techniques in modern dance. Course may be repeated for total of four hours credit. 2 lec-2 lab. Principles, movement, and performance techniques in modern dance. Course may be repeated for total of four hours credit. 2 lec-2 lab.
Grade Mode: Normal Grading Mode

DAN 480 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

DAN 485 Independent Study **1-4 Credit hours**
Grade Mode: Normal Grading Mode

DAN 486 Independent Study **1-4 Credit hours**
Grade Mode: Normal Grading Mode

DAN 491 Dance Workshop **1-4 Credit hours**
Practical participatory course for advanced students and professionals. Experience in new techniques, theories, and principles. Actual course title will vary with subject being covered. Practical participatory course for advanced students and professionals. Experience in new techniques, theories, and principles. Actual course title will vary with subject being covered.
Grade Mode: Normal Grading Mode

Dietetics (DTS)

- General Education Course

DTS 202 Introductory Foods **4 Credit hours**
Provides basic understanding of the science of food and food substances. Instruction on nutrients will be integrated with preparation of foods to form the laboratory experience. Provides basic understanding of the science of food and food substances. Instruction on nutrients will be integrated with preparation of foods to form the laboratory experience.
Pre-req: DTS 210 with a minimum grade of C.
Grade Mode: Normal Grading Mode

DTS 210 Nutrition **3 Credit hours**
Principles of human nutrition and their application in planning and evaluating dietaries for individuals and families.
Grade Mode: Normal Grading Mode

DTS 215 Assess and Ed Strat in DTS **3 Credit hours**
Establish a foundation for effective nutrition assessment and education of individuals and groups. Establish a foundation for effective nutrition assessment and education of individuals and groups.
Pre-req: DTS 202 with a minimum grade of C.
Grade Mode: Normal Grading Mode

DTS 280 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

DTS 301 FS Safety & Systems Mgt I **4 Credit hours**
A study of foodservice management and an in-depth look at food safety in foodservice establishments. Laboratory/field experiences provide students a better perspective of foodservice management in various institutions. A study of foodservice management and an in-depth look at food safety in foodservice establishments. Laboratory/field experiences provide students a better perspective of foodservice management in various institutions.
Pre-req: DTS 202 with a minimum grade of C and BSC 250 with a minimum grade of C.
Grade Mode: Normal Grading Mode

DTS 302 FS Safety & Sys Mgt II **4 Credit hours**
A continued study of foodservice management principles. The course emphasizes quantity production, distribution, and service of foods as well as facility planning and design. A continued study of foodservice management principles. The course emphasizes quantity production, distribution, and service of foods as well as facility planning and design.
Pre-req: DTS 301 with a minimum grade of C.
Grade Mode: Normal Grading Mode

DTS 310 Life Span Nutrition **3 Credit hours**
An exploration of the scientific principles of human nutrition and nutrient needs for stages of the life cycle, which include prenatal, gestational, infancy, toddler, child, preadolescent, adult, and elderly. An exploration of the scientific principles of human nutrition and nutrient needs for stages of the life cycle, which include prenatal, gestational, infancy, toddler, child, preadolescent, adult, and elderly.
Pre-req: DTS 210 with a minimum grade of C.
Grade Mode: Normal Grading Mode

DTS 320 Intermediate Nutrition **3 Credit hours**
Builds on knowledge acquired in introductory nutrition, and prepares students for advanced nutrition courses. Development of therapeutic diets, analysis of vitamin and mineral needs, and digestive processes discussed in detail. Builds on knowledge acquired in introductory nutrition, and prepares students for advanced nutrition courses. Development of therapeutic diets, analysis of vitamin and mineral needs, and digestive processes discussed in detail.
Pre-req: DTS 210 with a minimum grade of C and BSC 227 with a minimum grade of C.
Grade Mode: Normal Grading Mode

DTS 403 Advanced Nutrition **3 Credit hours**
An in-depth study of digestion, absorption, and metabolism of macronutrients; maintaining homepstasis in the body is also discussed in relationship to fluid, electrolyte, and acid-base balance. An in-depth study of digestion, absorption, and metabolism of macronutrients; maintaining homepstasis in the body is also discussed in relationship to fluid, electrolyte, and acid-base balance.
Pre-req: DTS 320 with a minimum grade of C and BSC 228 with a minimum grade of C.
Grade Mode: Normal Grading Mode

DTS 409 Nutrition in Community **3 Credit hours**
Nutritional needs of communities and the dietician's role in addressing them are identified, and community nutrition programs are closely examined. Nutritional needs of communities and the dietician's role in addressing them are identified, and community nutrition programs are closely examined.
Pre-req: DTS 210 with a minimum grade of C and DTS 202 with a minimum grade of C.
Grade Mode: Normal Grading Mode

DTS 410 Cross Cultural Foods **3 Credit hours**
Explores the relationship between food, nutrition, history, geography, culture, traditions, religion, communication, and acculturation. Studies cultural parameters and current issues that have shaped and continue to influence foodways.
Grade Mode: Normal Grading Mode

DTS 460 Research in Dietetics **3 Credit hours**
An introduction to quantitative and qualitative research methodologies with application in the field of dietetics. An introduction to quantitative and qualitative research methodologies with application in the field of dietetics.
Grade Mode: Normal Grading Mode

DTS 468 Chemistry of Food **3 Credit hours**
Experimental study of chemical and physical factors affecting food preparation. Experimental study of chemical and physical factors affecting food preparation.
Pre-req: DTS 202 with a minimum grade of C.
Grade Mode: Normal Grading Mode

DTS 469 Medical Nutr Therapy I **3 Credit hours**
A study of medical diseases and conditions in relation to medical nutrition therapy and the nutrition care process. A study of medical diseases and conditions in relation to medical nutrition therapy and the nutrition care process.
Pre-req: DTS 320 (may be taken concurrently) with a minimum grade of C and BSC 228 with a minimum grade of C.
Concurrent PR: DTS 320
Grade Mode: Normal Grading Mode

DTS 470 Medical Nutrition Therapy **3 Credit hours**
A continued study of medical diseases and conditions in relation to medical nutrition therapy and the nutrition care process. Case study presentations access critical thinking skills. A continued study of medical diseases and conditions in relation to medical nutrition therapy and the nutrition care process. Case study presentations access critical thinking skills.
Pre-req: DTS 469 with a minimum grade of C.
Grade Mode: Normal Grading Mode

DTS 476 Senior Seminar in DTS **3 Credit hours**
As a synthesis of dietetics program content, students will use food and nutrition knowledge to plan, implement, and evaluate a nutrition education program and prepare for supervised practice. As a synthesis of dietetics program content, students will use food and nutrition knowledge to plan, implement, and evaluate a nutrition education program and prepare for supervised practice.
Attributes: Capstone Course
Grade Mode: Normal Grading Mode

DTS 480 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

DTS 485 Independent Study **1-4 Credit hours**
Grade Mode: Normal Grading Mode

Digital Humanities (DH)

- General Education Course

DH 201 Intro to Digital Humanities **3 Credit hours**
Examines the entagled relationships between human cultures and digital technologies, and uses those technologies to explore topcis in the humanities.
Attributes: Digital Humanities, Core II Humanities
Grade Mode: Normal Grading Mode

Economics (ECN)

- General Education Course

ECN 200 Survey of Economics **3 Credit hours**
Major emphasis given to microeconomic topics such as supply and demand, market structure, and international trade. Macroeconomic concepts and aggregate supply-aggregate demand model are examined. (Not open to students in the College of Business or to students who have completed ECN 250) Major emphasis given to microeconomic topics such as supply and demand, market structure, and international trade. Macroeconomic concepts and aggregate supply-aggregate demand model are examined. (Not open to students in the College of Business or to students who have completed ECN 250)
Grade Mode: Normal Grading Mode

ECN 250 Principles Microeconomics **3 Credit hours**
Principles of scarcity, opportunity cost, and supply and demand are developed along with price and wage determination in the marketplace. International trade and policy problems are also examined. Principles of scarcity, opportunity cost, and supply and demand are developed along with price and wage determination in the marketplace. International trade and policy problems are also examined.
Grade Mode: Normal Grading Mode

ECN 253 Principles Macroeconomics **3 Credit hours**
Introduction to the workings of the national economy. Focuses on the forces driving economic growth, inflation, unemployment, and the country's international economic relations. Introduction to the workings of the national economy. Focuses on the forces driving economic growth, inflation, unemployment, and the country's international economic relations.
Pre-req: ECN 250 with a minimum grade of D or ECN 200 with a minimum grade of D.
Grade Mode: Normal Grading Mode

ECN 280 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

ECN 301 Quantitative Methods ECN/FIN **3 Credit hours**
Application of mathematical and statistical methods in Economics and Finance.
Pre-req: ECN 250 with a minimum grade of D and ECN 253 with a minimum grade of D.
Grade Mode: Normal Grading Mode

ECN 302 Health Economics **3 Credit hours**
A study of the health care market and health policy using the economic concepts of demand-supply, individual choice, uncertainty, asymmetric information and moral hazard.
Pre-req: ECN 250 with a minimum grade of D and ECN 253 with a minimum grade of D.
Grade Mode: Normal Grading Mode

ECN 310 Money and Banking **3 Credit hours**
Money, credit and credit institutions in the United States; monetary, fiscal, and banking functions of the Federal Reserve System.
Pre-req: ECN 250 with a minimum grade of D and ECN 253 with a minimum grade of D.
Attributes: American Institutions
Grade Mode: Normal Grading Mode

ECN 326 Int Macroeconomic Analys **3 Credit hours**
Advanced study of the national economy as a whole. The main topics focused on are: economic growth, unemployment, inflation, international monetary and financial relations, and macroeconomic policy activity. Advanced study of the national economy as a whole. The main topics focused on are: economic growth, unemployment, inflation, international monetary and financial relations, and macroeconomic policy activity.
Pre-req: ECN 250 with a minimum grade of D and ECN 253 with a minimum grade of D.
Attributes: American Institutions
Grade Mode: Normal Grading Mode

ECN 328 Int Microeconomic Analys **3 Credit hours**
Microeconomics theories of the production and pricing of goods and services, payments to the factors of production.
Pre-req: ECN 250 with a minimum grade of D and ECN 253 with a minimum grade of D.
Grade Mode: Normal Grading Mode

ECN 405 Environmental Economics **3 Credit hours**
An application of basic economic theory to a consideration of a wide range of environmental problems including pollution, natural resource exhaustion, population and economic growth.
Pre-req: ECN 250 with a minimum grade of D.
Grade Mode: Normal Grading Mode

ECN 408 Comparative Econ Systems **3 Credit hours**
Marxism, capitalism, communism, facism ad socialism considered as theories, movements and actual political economies.
Pre-req: ECN 250 with a minimum grade of D and ECN 253 with a minimum grade of D.
Attributes: International
Grade Mode: Normal Grading Mode

ECN 415 Regional Economics **3 Credit hours**
A study of location theory and regional development within a framework of economic theory. A study of location theory and regional development within a framework of economic theory.
Pre-req: ECN 250 with a minimum grade of D and ECN 253 with a minimum grade of D.
Attributes: American Institutions, Social Sciences
Grade Mode: Normal Grading Mode

ECN 420 International Trade **3 Credit hours**
An introduction to the basic microeconomic models explaining the reasons for and the effects of trade among nations, trade restrictions and regional trading arrangements. An introduction to the basic microeconomic models explaining the reasons for and the effects of trade among nations, trade restrictions and regional trading arrangements.
Pre-req: ECN 250 with a minimum grade of D and ECN 253 with a minimum grade of D.
Attributes: International
Grade Mode: Normal Grading Mode

ECN 421 Global Macroeconomic Analysis **3 Credit hours**
Current topics in international monetary relations, and how countries use macroeconomic policy to influence their performance in the global economy, and how global events influence country performance. Emphasis upon applications.
Pre-req: ECN 253 with a minimum grade of D.
Attributes: International
Grade Mode: Normal Grading Mode

ECN 423 Intro to Econometrics **3 Credit hours**
Combines economic theory with real data to obtain quantitative results for purposes of explanation and prediction. The development of useful economic models applicable to present day world problems.
Pre-req: (MGT 218 with a minimum grade of D or MGT 318 with a minimum grade of D or MTH 225 with a minimum grade of D or STA 225 with a minimum grade of D or IST 130 with a minimum grade of D or EDF 417 with a minimum grade of D or PSY 223 with a minimum grade of D or SOC 345 with a minimum grade of D) and ECN 253 with a minimum grade of D.
Grade Mode: Normal Grading Mode

ECN 456 Labor Economics **3 Credit hours**
Theoretical and empirical analysis of labor markets, wage determination, hours of work, unemployment and inflation, unions and collective bargaining and related subjects in their social and legal contexts.
Pre-req: ECN 250 with a minimum grade of D.
Attributes: American Institutions, Social Sciences
Grade Mode: Normal Grading Mode

ECN 460 Economic of Dev Countries **3 Credit hours**
Introduction to developing nations in the world economy. Focus on their economic characteristics, current economic problems, and policy issues. Interactions between the world economy and country performance.
Pre-req: ECN 250 with a minimum grade of D and ECN 253 with a minimum grade of D.
Attributes: International
Grade Mode: Normal Grading Mode

ECN 466 Economics Workshop **3 Credit hours**
Capstone experience. Emphasis on learning economics through applied research, writing, and oral presentations of student work. Capstone experience. Emphasis on learning economics through applied research, writing, and oral presentations of student work.
Pre-req: ECN 326 with a minimum grade of D and ECN 328 with a minimum grade of D and ECN 423 with a minimum grade of D.
Attributes: Capstone Course
Grade Mode: Normal Grading Mode

ECN 467 Economics Workshop II **2 Credit hours**
Capstone Experience. Emphasis on learning economics through writing exercises. Opportunity for collaborative research with CBER staff. Development of skills necessary for success in the job market. (PR: ECN 466) tion of Senior Thesis I) Capstone Experience. Emphasis on learning economics through writing exercises. Opportunity for collaborative research with CBER staff. Development of skills necessary for success in the job market. (PR: ECN 466) tion of Senior Thesis I)
Attributes: Capstone Course
Grade Mode: Normal Grading Mode

ECN 480 Special Topics **1-4 Credit hours**
Members of the department may teach, when necessary, any economics subject not listed among the current course offerings. Members of the department may teach, when necessary, any economics subject not listed among the current course offer- ings.
Grade Mode: Normal Grading Mode

ECN 485 Independent Study **1-4 Credit hours**
A research project conducted by a qualified student under guidance of a member of the department; involves gathering of data, interpretation, and presentation of findings in a written report. A research project conducted by a qualified student under guidance of a member of the department; involves gathering of data, interpretation, and presentation of findings in a written report.
Grade Mode: Normal Grading Mode

ECN 490 Internship **3-12 Credit hours**
A supervised internship in which the student works for a business firm/agency to gain practical experience in the student's major. The program of work and study will be defined in advanced and the students performance will be evaluated.
Grade Mode: Credit/No Credit Grade Only

Early Childhood Education (ECE)

- General Education Course

ECE 101 Early Childhood Wellbeing **3 Credit hours**
An introduction to the basic requirements and regulations for health and safety in early childhood programs serving children from birth to age eight. An introduction to the basic requirements and regulations for health and safety in early childhood programs serving children from birth to age eight.
Grade Mode: Normal Grading Mode

ECE 102 Early Childhood Programs (CT) **3 Credit hours**
A critical analysis of the historical, philosophical, political, social, and theoretical foundations of early childhood programs with specific attention to current programs serving children prior to school entry. 3 CR. A critical analysis of the historical, philosophical, political, social, and theoretical foundations of early childhood programs with specific attention to current programs serving children prior to school entry. 3 CR.
Attributes: Critical Thinking
Grade Mode: Normal Grading Mode

ECE 201 Early Education Tech **3 Credit hours**
Application of technology in the teaching and administration of early childhood education programs.
Grade Mode: Normal Grading Mode

ECE 204 Parenting **3 Credit hours**
This course examines parenting from a socio-cultural and developmental perspective using a systems model. This course examines parenting from a socio-cultural and developmental perspective using a systems model.
Grade Mode: Normal Grading Mode

ECE 215 Family Relationships **3 Credit hours**
Relationships in the family during its life cycle, with some consideration of family life in other cultures. Relationships in the family during its life cycle, with some consideration of family life in other cultures.
Grade Mode: Normal Grading Mode

ECE 303 Child Development **3 Credit hours**
Care and guidance of young children through five years in relation to their physical, emotional, mental and social development. Observation and participation in nursery school required. Care and guidance of young children through five years in relation to their physical, emotional, mental and social development. Observation and participation in nursery school required.
Grade Mode: Normal Grading Mode

ECE 322 Language & Literacy **3 Credit hours**
Provide pre-service teachers with an overview of the emergent nature of the development of language and literacy in the young child in a context that is developmentally and culturally appropriate.
Pre-req: ECE 303 with a minimum grade of C.
Grade Mode: Normal Grading Mode

ECE 323 Assess Early Childhood **3 Credit hours**
Realistic and practical guidance in providing learning experiences for children from diverse cultural backgrounds based upon authentic assessment practices. Realistic and practical guidance in providing learning experiences for children from diverse cultural backgrounds based upon authentic assessment practices.
Pre-req: ECE 303 with a minimum grade of C.
Grade Mode: Normal Grading Mode

ECE 324 Early Childhood Sci/Math **3 Credit hours**
Strategies for integrating math, science and technology in early childhood curriculum with focus on inquiry approaches. Strategies for integrating math, science and technology in early childhood curriculum with focus on inquiry approaches.
Pre-req: ECE 303 with a minimum grade of C.
Grade Mode: Normal Grading Mode

ECE 325 Play and Creativity **3 Credit hours**
Exploration of the multiple ways children and adults express their thoughts and represent their environment and experiences.
Pre-req: ECE 303 with a minimum grade of C.
Grade Mode: Normal Grading Mode

ECE 420 Infant/Toddler Environs & Rela **3 Credit hours**
Creation of developmentally supportive environments for infants and toddlers in group settings with emphasis on establishing nurturing relationships. Creation of developmentally supportive environments for infants and toddlers in group settings with emphasis on establishing nurturing relationships.
Pre-req: ECE 303 with a minimum grade of D.
Grade Mode: Normal Grading Mode

ECE 421 Infant/Toddler Ed Practicum **3 Credit hours**
Practice in planning and leading an infant/toddler group with emphasis on environments and relationships that provide supportive nurturance and education for the babies and their parents. Practice in planning and leading an infant/toddler group with emphasis on environments and relationships that provide supportive nurturance and education for the babies and their parents.
Pre-req: ECE 420 (may be taken concurrently) with a minimum grade of C and Admitted to Teacher ED with a score of 4.
Concurrent PR: ECE 420
Grade Mode: Normal Grading Mode

ECE 430 Preschool Curr and Methods **3 Credit hours**
Historical and contemporary curriculum and methods for preschool children with emphasis on current best practices. Historical and contemporary curriculum and methods for preschool children with emphasis on current best practices.
Pre-req: ECE 303 with a minimum grade of D.
Grade Mode: Normal Grading Mode

ECE 431 Guid Young Child Pract **3 Credit hours**
Techniques of guidance of young children with emphasis on adult-child interaction. Participation in laboratory preschool required. Techniques of guidance of young children with emphasis on adult-child interaction. Participation in laboratory preschool required.
Pre-req: Admitted to Teacher ED with a score of 4 and ECE 303 with a minimum grade of C.
Grade Mode: Normal Grading Mode

ECE 435 Admin Early Child Program **3 Credit hours**
Instruction and practice in the development of day centers for three and four year old children and administration of programs in these centers. Laboratory participation required. Instruction and practice in the development of day centers for three and four year old children and administration of programs in these centers. Laboratory participation required.
Pre-req: ECE 303 with a minimum grade of D.
Grade Mode: Normal Grading Mode

ECE 472 Early Childhood Capstone **3 Credit hours**
Application of ECE content knowledge in the management of early childhood programs: senior level capstone. Premission required.
Attributes: Capstone Course
Grade Mode: Normal Grading Mode

ECE 485 Independent Study **1-4 Credit hours**
Permission of the coordinator. Requires 2.5 GPA, limit of 6 hours to be used in professional education as a specialization. Permission of the coordinator. Requires 2.5 GPA, limit of 6 hours to be used in professional education as a specialization.
Grade Mode: Normal Grading Mode

ECE 486 Independent Study **1-4 Credit hours**
Permission of the coordinator. Requires 2.5 GPA, limit of 6 hours to be used in professional education as a specialization. Permission of the coordinator. Requires 2.5 GPA, limit of 6 hours to be used in professional education as a specialization.
Grade Mode: Normal Grading Mode

ECE 487 Independent Study **1-4 Credit hours**
Permission of the coordinator. Requires 2.5 GPA, limit of 6 hours to be used in professional education as a specialization. Permission of the coordinator. Requires 2.5 GPA, limit of 6 hours to be used in professional education as a specialization.
Grade Mode: Normal Grading Mode

ECE 488 Independent Study **1-4 Credit hours**
Permission of the coordinator. Requires 2.5 GPA, limit of 6 hours to be used in professional education as a specialization. Permission of the coordinator. Requires 2.5 GPA, limit of 6 hours to be used in professional education as a specialization.
Grade Mode: Normal Grading Mode

Educational Foundations (EDF)

- General Education Course

EDF 201 Ed Psych Developing Learner **3 Credit hours**
A study of the psychological principles for learning and teaching based on children's emotional, social, cognitive, and physical development.
Grade Mode: Normal Grading Mode

EDF 218 Child/Adol Dev in Schools **3 Credit hours**
A basic course in the study of children's emotional, social, mental, and physical development. Field experience required. A basic course in the study of children's emotional, social, mental, and physical development. Field experience required.
Co-req: EDF 270
Grade Mode: Normal Grading Mode

EDF 270 Level I Clinical Exp **0 Credit hours**
A public school Clinical Experience in an elementary school. An opportunity to work with faculty, staff, and students in a teaching/learning environment. A public school Clinical Experience in an elementary school. An opportunity to work with faculty, staff, and students in a teaching/learning environment.
Grade Mode: Credit/No Credit Grade Only

EDF 271 Level I Clinical Exp **0 Credit hours**
A public school Clinical Experience in an elementary public school. An opportunity to work with faculty, staff, and students in a teaching/learning environment. A public school Clinical Experience in an elementary public school. An opportunity to work with faculty, staff, and students in a teaching/learning environment.
Co-req: EDF 218
Grade Mode: Normal Grading Mode

EDF 272 Level I Clinical Exp **0 Credit hours**
A public school Clinical Experience in an elementary public school. An opportunity to work with faculty, staff, and students in a teaching/learning environment. A public school Clinical Experience in an elementary public school. An opportunity to work with faculty, staff, and students in a teaching/learning environment.
Co-req: EDF 218
Grade Mode: Normal Grading Mode

EDF 280 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

EDF 281 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

EDF 282 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

EDF 283 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

EDF 319 Applications Learning Theory **3 Credit hours**
A study of the psychological principles which are the foundation for learning and teaching. A study of the psychological principles which are the foundation for learning and teaching.
Pre-req: Admitted to Teacher ED with a score of 4.
Grade Mode: Normal Grading Mode

EDF 406 Foundations of Education **3 Credit hours**
A survey of the historical, philosophical and sociological foundations of American education with emphasis upon current educational problems and issues. A survey of the historical, philosophical and sociological foundations of American education with emphasis upon current educational problems and issues.
Pre-req: EDF 319.
Grade Mode: Normal Grading Mode

EDF 417 Statistical Methods **3 Credit hours**
A foundation course in descriptive and inferential statistics as applied in education and the social sciences. A foundation course in descriptive and inferential statistics as applied in education and the social sciences.
Attributes: Statistics
Grade Mode: Normal Grading Mode

EDF 435 Classroom Assessment **3 Credit hours**
History, philosophy and elementary statistical methods for testing, measuring and evaluating pupil behavior are studied. History, philosophy and elementary statistical methods for testing, measuring and evaluating pupil behavior are studied.
Pre-req: Admitted to Teacher ED with a score of 4 and EDF 201 with a minimum grade of C.
Grade Mode: Normal Grading Mode

EDF 475 Schools in a Diverse Society **3 Credit hours**
Study of social, historical and philosophical foundations of U.S. schooling. Study of social, historical and philosophical foundations of U.S. schooling.
Pre-req: Admitted to Teacher ED with a score of 4.
Grade Mode: Normal Grading Mode

EDF 480 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

EDF 481 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

EDF 482 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

EDF 483 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

EDF 485 Independent Study **1-4 Credit hours**
Grade Mode: Normal Grading Mode

EDF 486 Independent Study **1-4 Credit hours**
Grade Mode: Normal Grading Mode

EDF 487 Independent Study **1-4 Credit hours**
Grade Mode: Normal Grading Mode

EDF 488 Independent Study **1-4 Credit hours**
Grade Mode: Normal Grading Mode

Electrical Engineering (EE)

- General Education Course

EE 202 Circuits II **3 Credit hours**
The transient response of first and second order systems. Balanced three-phase systems. Mutual inductance, transformers, resonance, and two-port networks.
Pre-req: ENGR 201 with a minimum grade of D and MTH 230 with a minimum grade of D.
Grade Mode: Normal Grading Mode

EE 204 Intro to Digital Systems **3 Credit hours**
Number systems, digital components and systems, Boolen switching algebra; the analysis and design of combinational and sequential circuits; introduction to computer architecture.
Pre-req: MTH 220 with a minimum grade of D.
Grade Mode: Normal Grading Mode

EE 210 Programming Lab **3 Credit hours**
This course introduces students to the fundamental principles of programming for solving engineering programs. It familiarizes students with the process of translating real-life engineering problems to computation problems.
Pre-req: CS 110.
Grade Mode: Normal Grading Mode

EE 211 Intro to Computer Engineering **3 Credit hours**
Provide a study of Data Structure, operating systems' concepts, HW designed methods and relationship between hardware and software.
Pre-req: EE 210 with a minimum grade of D.
Grade Mode: Normal Grading Mode

EE 310 Electromagnetic Fields **3 Credit hours**
This course provdies in depth coverage of all aspects electromagnetics, with a focus on field and wave generation and propagation. The course will focus on more practical aspects of E-M theory.
Pre-req: EE 202 with a minimum grade of D and MTH 335 with a minimum grade of D.
Grade Mode: Normal Grading Mode

EE 320 Analysis of Signals & Systems **3 Credit hours**
This class introduces students to concepts of probability and random variables necessary for study of signals and systems involving uncertainty; applications to elementary problems in detection, signal processing and communication.
Pre-req: MTH 335.
Grade Mode: Normal Grading Mode

EE 330 Random Signals and Systems **3 Credit hours**
This course will introduce the students to the fundamental concepts of probabiliity theory applied to engineering problems, including elementary set operations, sample spaces and probability laws, conditional probability and independence.
Pre-req: EE 320 with a minimum grade of D.
Grade Mode: Normal Grading Mode

EE 340 Computer Architecture & Design **4 Credit hours**
This course is a study of the factors influencing the design of hardware and software elements of computer systems. Topics include: instruction set design; cache and virtual memory organizations.
Pre-req: EE 211 with a minimum grade of D.
Grade Mode: Normal Grading Mode

EE 350 Elect Properties of Materials **3 Credit hours**
Introduction to basic physical properties of solid materials; some solid state physics employed, but major emphasis is on engineering applications based on semiconducting, magnetic, dielectric and superconducting phenomena.
Pre-req: EE 202 with a minimum grade of D.
Grade Mode: Normal Grading Mode

EE 360 Control Systems **3 Credit hours**
Application of state variable and frequency domain techniques to modeling, analysis and synthesis of single input, single output linear control systems.
Pre-req: EE 202 with a minimum grade of D.
Grade Mode: Normal Grading Mode

EE 370 Electric Machinery **3 Credit hours**
Fundamentals of energy-handling electric circuits, analysis of power electric circuits, elements of linear and rotating electric machinery, induction, and DC machinery.
Pre-req: EE 310 with a minimum grade of D.
Grade Mode: Normal Grading Mode

EE 375 Communcation Systems I **3 Credit hours**
Introduction to the fundamental concepts of computer communication networks. Topics include the OSI reference model, the physical data link, network, and transport layers, TCP/IP, LANs, ALOHA, routing and flow controls.
Pre-req: EE 310 with a minimum grade of D and EE 320 (may be taken concurrently) with a minimum grade of D.
Concurrent PR: EE 320
Grade Mode: Normal Grading Mode

EE 380 Microprocessor Design **3 Credit hours**
Hardware and software for real-time microprocessor-based digital systems. Basic concepts of on-chip components related to digital system functionality. Introduction to 32-bit machines with treatment of 16- and 8- bit machines.
Pre-req: EE 204 with a minimum grade of D and EE 340 with a minimum grade of D.
Grade Mode: Normal Grading Mode

EE 401 Communication Systems II **3 Credit hours**
This course will cover topics in the field of RF/microwave engineering, such as transmission lines, waveguides, impedance matching, microwave resonators, RF filters, RF amplifiers and an introduction to antenna design.
Pre-req: EE 375 with a minimum grade of D.
Grade Mode: Normal Grading Mode

EE 410 Electrical Engineering Design **3 Credit hours**
Application of design process and project engineering as practiced in industry; team approach to the design process; development of a project proposal; proposed project implemented in EE 420.
Grade Mode: Normal Grading Mode

EE 411 Intro to Digital IC Design **3 Credit hours**
This course covers the analysis and design of digital integrated circuits using CMOS technology. The course emphasizes design of circuit layout, and HSPICE and IRSIM for simulations, lab included.
Pre-req: ENGR 204.
Grade Mode: Normal Grading Mode

EE 412 Computer Engineering Design **3 Credit hours**
Introduction to the design process and project engineering as practiced in industry; student teams apply the design process by developing a project from proposal; proposed project implemented in EE 420.
Grade Mode: Normal Grading Mode

EE 415 Intro VHDL Design & HW Systems **3 Credit hours**
This course provides fundamental of hardware design methodologies and modeling. It covers the essentials of HDL, embedded C and hardware-embedded systems using VHDL language, Lab included.
Pre-req: EE 380 with a minimum grade of D.
Grade Mode: Normal Grading Mode

EE 419 Intr Digital Signal Processing **3 Credit hours**
This course covers the transformation, manipulation of signals. It introduces the concepts of discrete-time, discrete frequency domains, representations and analyses of systems, and filter designs, lab is included.
Pre-req: EE 350.
Grade Mode: Normal Grading Mode

EE 420 Capstone Design **3 Credit hours**
Application of the design process and project engineering as practiced in industry; team approach to the design process; completion of project based on proposal from EE 410 or EE 412.
Pre-req: EE 410 with a minimum grade of D or EE 412 with a minimum grade of D.
Attributes: Capstone Course, No Textbook Required
Grade Mode: Normal Grading Mode

EE 425 Electric Power Systems **3 Credit hours**
The course emphasizes power engineering area that includes power generation, transmission, and distribution.
Pre-req: EE 202 with a minimum grade of D.
Grade Mode: Normal Grading Mode

EE 440 Digital Control Systems **3 Credit hours**
Feedback systems in which a digital computer is used to implement the control law; Z-transform and time domain methods serve as a basis for control systems design.
Pre-req: EE 360.
Grade Mode: Normal Grading Mode

EE 445 Radio Freq & Microwave Engr **3 Credit hours**
Fundamental Radio Frequency (RF) and microwave circuit analysis; return loss, insertion loss; transmission lines, lumped elements, impedence matching; theory, analysis and design of basic RF and microwave passive circuits.
Pre-req: EE 320.
Grade Mode: Normal Grading Mode

EE 447 Real-Time Digital Processing **3 Credit hours**
This course provides an introduction to the principles of real-time digital signal processing and hands-on development of real-time signal processing algorithms.
Pre-req: EE 320.
Grade Mode: Normal Grading Mode

EE 448 Power Electronics **3 Credit hours**
Principles of power electronics. Including understanding of power semiconductor devices, passive components, basic switching circuits, AC/DC, DC/DC, DC/AC converters and their applications.
Pre-req: (ENGR 202 with a minimum grade of D or EE 202 with a minimum grade of D) and EE 310 with a minimum grade of D.
Grade Mode: Normal Grading Mode

EE 480 Special Topics **1-4 Credit hours**
Special Topics
Grade Mode: Normal Grading Mode

EE 481 Special Topics **1-4 Credit hours**
Special Topics
Grade Mode: Normal Grading Mode

EE 482 Special Topics **1-4 Credit hours**
Special Topics
Grade Mode: Normal Grading Mode

EE 483 Special Topics **1-4 Credit hours**
Special Topics
Grade Mode: Normal Grading Mode

EE 485 Independent Study **1-4 Credit hours**
Independent Study
Grade Mode: Normal Grading Mode

EE 486 Independent Study **1-4 Credit hours**
Independent Study
Grade Mode: Normal Grading Mode

EE 487 Independent Study **1-4 Credit hours**
Independent Study
Grade Mode: Normal Grading Mode

EE 488 Independent Study **1-4 Credit hours**
Independent Study
Grade Mode: Normal Grading Mode

Engineering & Science (ENGR)

- General Education Course

ENGR 102 Introduction to CAD **2 Credit hours**
An introduction of scales, plan reading, engineering graphics and computer aided designing. Itroduction to the operation of modern 2D and 3D CAD software. 2 lec (PR: MTH 132; pre-engineering or engineering major)
Pre-req: MTH 132 (may be taken concurrently) with a minimum grade of D or MTH 229 (may be taken concurrently) with a minimum grade of D or MTH 229H (may be taken concurrently) with a minimum grade of D.
Concurrent PR: MTH 132 or MTH 229 or MTH 229H
Grade Mode: Normal Grading Mode

ENGR 103 First-Year Engineering Seminar **1 Credit hour**
Weekly seminars presented by practicing engineers to help students gain a better understanding of various engineering fields and the attributes required to be a successful engineer.
Grade Mode: Normal Grading Mode

ENGR 104 The Engineering Profession **1 Credit hour**
Introduction to the engineering profession and engineering disciplines; introduction to the engineering design process and team projects. Introduction to the engineering profession and engineering disiplines; introduction to the engineering design process and team projects.
Grade Mode: Normal Grading Mode

ENGR 111 Engineering Computations **3 Credit hours**
Introduction to effective problem-solving techniques using various engineering applications with an emphasis on accuracy. Various tools will be covered including calculators, spreadsheets, and a computational environment such as MATLAB.
Pre-req: ACT Math with a score of 24 or SAT Mathematics Before Mar. 16 with a score of 560 or MTH 132 (may be taken concurrently) or MTH 229 (may be taken concurrently) or MTH 229H (may be taken concurrently).
Concurrent PR: MTH 132 or MTH 229 or MTH 229H
Grade Mode: Normal Grading Mode

ENGR 201 Circuits I **4 Credit hours**
Definition of fundamental concepts and components, including operational amplifiers. Steady-state ac and dc analysis using the basic laws of circuits. Principles of electrical measurements. Single-phase ac power. Computer applications. Definition of fundamental concepts and components, including operational amplifiers. Steady-state ac and dc analysis using the basic laws of circuits. Principles of electrical measurements. Single-phase ac power. Computer applica- tions. (PR: MTH 229)
Pre-req: MTH 229 or MTH 229H.
Grade Mode: Normal Grading Mode

ENGR 213 Statics **3 Credit hours**
Particle and rigid body mechanics for static force systems.
Pre-req: (MTH 229 with a minimum grade of D or MTH 229H with a minimum grade of D).
Grade Mode: Normal Grading Mode

ENGR 214 Dynamics **3 Credit hours**
Laws of motion, work and energy, impulse and momentum, relative motion. 3 lec.
Pre-req: ENGR 213 with a minimum grade of D and MTH 230 (may be taken concurrently) with a minimum grade of D.
Concurrent PR: MTH 230
Grade Mode: Normal Grading Mode

ENGR 215 Engineering Materials **3 Credit hours**
Material types and the relationships between material structure and material properties. Material defects, failure, corrosion and degradation, strengthening mechanisms, testing, and joining operations. (PR: CHM 211).
Pre-req: CHM 211.
Grade Mode: Normal Grading Mode

ENGR 216 Mech of Deformable Bodies **3 Credit hours**
Strength of materials; shear and moment diagrams; stresses in shafts, beams and columns; combined stresses; deflections. 4 lec.
Pre-req: ENGR 213 with a minimum grade of D.
Grade Mode: Normal Grading Mode

ENGR 217 Engineering Co-Op Preparation **1 Credit hour**
To prepare students for both the job search and employment in the field of engineering. Students will learn strategies for conducting a successful Co-Op.
Pre-req: ENGR 102 with a minimum grade of D or CE 102 with a minimum grade of D or CS 110 with a minimum grade of D or CS 110H with a minimum grade of D.
Attributes: No Textbook Required
Grade Mode: Normal Grading Mode

ENGR 219 Engineering Thermodynamics **3 Credit hours**
Fundamental concepts of energy analysis and thermodynamic principles. Computer applications. 3-lec.
Pre-req: PHY 211 with a minimum grade of D.
Grade Mode: Normal Grading Mode

ENGR 221 Engineering Economy **3 Credit hours**
Economic selection of machines, structures and processes. 3 lec.
Pre-req: MTH 127 or MTH 130 or MTH 132 or MTH 229 or MTH 229H.
Grade Mode: Normal Grading Mode

ENGR 222 Engr Cost Analysis & Economy **3 Credit hours**
Economic analysis of engineering proposals; time value of money; evaluation and selection of projects; replacement and retention decisions; uncertainty and risk; inflation; cost estimation; depreciation; and benefit cost analysis.
Pre-req: MTH 229 with a minimum grade of D or MTH 229H with a minimum grade of D.
Grade Mode: Normal Grading Mode

ENGR 265 Engineering Analysis **4 Credit hours**
Mathematical and analytical solutions of linear and power systems that involve linear algebra, Fourier analysis, and complex variables.
Pre-req: MTH 231.
Grade Mode: Normal Grading Mode

ENGR 280 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

ENGR 281 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

ENGR 282 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

ENGR 283 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

ENGR 290 Internship in Engineering **1-4 Credit hours**
Supervised off-campus activities which provide professional experience in different fields of engineering.
Grade Mode: Credit/No Credit Grade Only

ENGR 318 Fluid Mechanics **3 Credit hours**
Fluid properities, hydrostatic forces, stability of floating bodies, equations of fluid acceleration and motion (continuity, momentum, energy, Euler's Bernoulli's), dynamic similitude, internal flow, and computer solutions in ideal fluids. 3-lec. (PR: ENGR 214; CR: ENGR 319)
Pre-req: ENGR 214 with a minimum grade of D.
Grade Mode: Normal Grading Mode

ENGR 319 Fluid Mechanics Laboratory **1 Credit hour**
Laboratory techniques in fluid mechanics to include various experiments in fluid statics and fluid dynamics such as hydrostatic pressure, open channel flow, pipe flow, momentum theorem, etc.
Pre-req: ENGR 214 with a minimum grade of D.
Co-req: ENGR 318
Grade Mode: Normal Grading Mode

ENGR 330 Engineering Research **3 Credit hours**
This course is designed to provide the undergraduate engineering student with an opportunity to participate in engineering projects, research
Grade Mode: Normal Grading Mode

ENGR 335 Adv Engineering Analysis **3 Credit hours**
Mathematical methods for analyzing and solving a range of engineering problems, including linear algebra, vector and multivariate calculus, complex variables calculus, and Fourier analysis.
Pre-req: MTH 335 with a minimum grade of D.
Grade Mode: Normal Grading Mode

ENGR 350 Engineering Co-Op **0 Credit hours**
A supervised experience in which the student works for a company to gain practical experience in a students major.
Pre-req: ENGR 217 with a minimum grade of D.
Grade Mode: Credit/No Credit Grade Only

ENGR 451 Intro to Proj Management **3 Credit hours**
This course covers project management fundamentals including project definition, project selection, project planning, estimating, scheduling, resource allocation and project control. An emphasis will be placed on building effective project teams.
Pre-req: ENGR 222.
Grade Mode: Normal Grading Mode

ENGR 473 Capstone Senior Design **3 Credit hours**
Students utilize the engineering design process to complete a comprehensive engineering project that addresses a real-world problem with realistic constraints in a collaborative environment.
Pre-req: ENGR 451 with a minimum grade of D.
Attributes: Capstone Course
Grade Mode: Normal Grading Mode

ENGR 480 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

ENGR 481 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

ENGR 482 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

ENGR 483 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

ENGR 485 Independent Study **1-4 Credit hours**
Grade Mode: Normal Grading Mode

ENGR 486 Independent Study **1-4 Credit hours**
Grade Mode: Normal Grading Mode

ENGR 487 Independent Study **1-4 Credit hours**
Grade Mode: Normal Grading Mode

ENGR 488 Independent Study **1-4 Credit hours**
Grade Mode: Normal Grading Mode

English (ENG)

Advanced placement in English is granted on the basis of the Educational Testing Service (ETS) Advanced Placement Test scores. See section entitled “Advanced Placement” of this catalog for details. Students with ACT verbal scores of 34 or better (770 SAT ERW) should notify the Coordinator of Composition (marshallme@marshall.edu), who will then arrange for credit in ENG 101-201 to be assigned to the students’ records. Students with ACT verbal scores of 28-33 (640 SAT ERW) should enroll in ENG 201H. Students with ACT verbal scores of

18-27 (480 SAT ERW) should enroll in ENG 101. Students who score 17 or below on the ACT verbal (or below 470 SAT ERW) must take ENG 101P. Honors College students should enroll in ENG 200H.

- General Education Course

ENG 101 Beginning Composition **3 Credit hours**
Introduction to academic writing with emphasis on writing as a multi-stage process, critical thinking, and fundamental research strategies and skills.
Pre-req: ACT Verbal with a score of 18 or SAT Verbal Before March 16 with a score of 450 or SAT EVIDENCE-BASED READ/WRIT with a score of 480 or ENG 0XX or Placement English with a score of 0101 or ENG 099 with a minimum grade of CR or ENG 100 with a minimum grade of C or ENG 101C.
Attributes: Composition Core II
Grade Mode: Normal Grading Mode

ENG 101P Beginning Composition Plus **4 Credit hours**
Introduction to academic writing with emphasis on writing as a multi-stage process, critical thinking, and fundamental research strategies and skills. Additional attention on reading, paragraph development, and sentence-level writing skills.
Attributes: Composition Core II
Grade Mode: Normal Grading Mode

ENG 150 Academic Listening & Speaking **3 Credit hours**
This course promotes the development of English language fluency by nonnative speakers of English. It specifically targets the language skills necessary for successful oral communication within an academic context.
Grade Mode: Normal Grading Mode

ENG 151 Academic Reading **3 Credit hours**
This course prepares nonnative speakers of English to meet the challenges of reading for academic purposes at the college level by improving their reading skills and English language proficiency.
Grade Mode: Normal Grading Mode

ENG 160 Academic English & Composition **6 Credit hours**
This course for nonnative speakers of English focuses on written academic English, including grammar, mechanics, research, American English rhetorical conventions, and process writing. It further provides practice in oral communication.
Grade Mode: Normal Grading Mode

ENG 200 Texting the World(CT) **3 Credit hours**
This class brings together literary and non-literary texts and considers how the same theme plays through them via analysis, evaluation, and creation of said texts. This class brings together literary and non-literary texts and considers how the same theme plays through them via analysis, evaluation, and creation of said texts.
Attributes: Critical Thinking, Core II Humanities, Literature
Grade Mode: Normal Grading Mode

ENG 200H Texting the World (CT) **3 Credit hours**
This class brings together literary and non-literary texts and considers how the same theme plays through them via analysis, evaluation and creation of said texts.
Pre-req: Admitted Honors College with a score of 1.
Attributes: Composition Core II, Critical Thinking, Honors, Core II Humanities, Literature
Grade Mode: Normal Grading Mode

ENG 201 Advanced Composition **3 Credit hours**
An advanced composition course centered on critical reading, writing, and research skills for the disciplines.
Pre-req: ENG 101 with a minimum grade of C or ENG 101P with a minimum grade of C or ENG 160 with a minimum grade of C or ENG 101B with a minimum grade of C.
Attributes: Composition Core II
Grade Mode: Normal Grading Mode

ENG 201H English Comp Honors **3 Credit hours**
An accelerated course in English composition. Completion of 201H with a C or better satisfies the University requirement in freshman composition. Students completing the course are awarded three additional hours of credit toward graduation. An accelerated course in English composition. Completion of 201H with a C or better satisfies the University requirement in freshman composition. Students completing the course are awarded three additional hours of credit toward graduation.
Pre-req: ACT Verbal with a score of 28 or SAT Verbal Before March 16 with a score of 640 or SAT EVIDENCE-BASED READ/WRIT with a score of 640.
Attributes: Composition Core II
Grade Mode: Normal Grading Mode

ENG 203 Appalachian Literature **3 Credit hours**
The study of Appalachian literature and texts that reflect cultural, political, and aesthetic experiences in the region as well as the intellectual, emotional, and spiritual experience of its inhabitants.(PR: Completion of Core II Composition Requirement)
Pre-req: ENG 201 with a minimum grade of C or ENG 201H with a minimum grade of C or ENG 200H with a minimum grade of C.
Attributes: Core II Humanities, Literature, Multicultural
Grade Mode: Normal Grading Mode

ENG 204 Writing for the Workplace **3 Credit hours**
A writing course focused on the styles and forms used in the workplace. (PR: Completion of Core II Composition Requirement; Restricted to College of Business students, English majors, and English minors)
Pre-req: ENG 201 with a minimum grade of C or ENG 201H with a minimum grade of C or ENG 200H with a minimum grade of C.
Grade Mode: Normal Grading Mode

ENG 205 Popular Literature (CT) **3 Credit hours**
The study of popular literature in its cultural contexts.
Attributes: Critical Thinking, Core II Humanities, Literature
Grade Mode: Normal Grading Mode

ENG 206 Good Plays **3 Credit hours**
Study of plays from a variety of traditions and/or historical eras that have had a powerful impact on culture and the tradition of drama. PR: Completion of Core II Composition Requirement
Pre-req: ENG 201 with a minimum grade of C or ENG 201H with a minimum grade of C or ENG 200H with a minimum grade of C.
Attributes: Core II Humanities, Literature
Grade Mode: Normal Grading Mode

ENG 207 Good Essays **3 Credit hours**
Criticism and analysis of representative selections of short nonfiction. (PR: Completion of Core II Composition Requirement)
Pre-req: ENG 201 with a minimum grade of C or ENG 201H with a minimum grade of C or ENG 200H with a minimum grade of C.
Attributes: Core II Humanities
Grade Mode: Normal Grading Mode

ENG 209 Literature of Fantasy **3 Credit hours**
Study of different forms, conventions, and styles in fantastic literature, such as legend, fairy tale, horror story, heroic fantasy, nonsense, and romance. (PR: Completion of Core II Composition Requirement)
Pre-req: ENG 201 with a minimum grade of C or ENG 200H with a minimum grade of C or ENG 201H with a minimum grade of C.
Attributes: Core II Humanities, Literature
Grade Mode: Normal Grading Mode

ENG 210 Autobiography **3 Credit hours**
Study of select autobiographies and memoirs from a variety of literary traditions. (PR: Completion of Core II Composition Requirement)
Pre-req: ENG 201 with a minimum grade of C or ENG 200H with a minimum grade of C or ENG 201H with a minimum grade of C.
Attributes: Core II Humanities, Literature
Grade Mode: Normal Grading Mode

ENG 211 Science Fiction **3 Credit hours**
Study of science fiction, including its background, themes, types, analyses, and appreciation. (PR: Completion of Core II Composition Requirement)
Pre-req: ENG 201 with a minimum grade of C or ENG 200H with a minimum grade of C or ENG 201H with a minimum grade of C.
Attributes: Core II Humanities, Literature
Grade Mode: Normal Grading Mode

ENG 212 Sports Literature **3 Credit hours**
Study of sports literature of different genres, including fiction, poetry, drama, and biography. (PR: Completion of Core II Composition Requirement)
Pre-req: ENG 201 with a minimum grade of C or ENG 200H with a minimum grade of C or ENG 201H with a minimum grade of C.
Attributes: Core II Humanities, Literature
Grade Mode: Normal Grading Mode

ENG 213 Good Poems **3 Credit hours**
Selected examples of poems from a variety of cultures and/or historical eras studied through close reading and analysis. (PR: Completion of Core II Composition Requirement)
Pre-req: ENG 201 with a minimum grade of C or ENG 200H with a minimum grade of C or ENG 201H with a minimum grade of C.
Attributes: Core II Humanities, Literature
Grade Mode: Normal Grading Mode

ENG 214 Intro to Comics **3 Credit hours**
Introduction of the literary art form of comics through a study of its history, genres, conventions, and complexities. (PR: Completion of Core II Composition Requirement)
Pre-req: ENG 201 with a minimum grade of C or ENG 200H with a minimum grade of C or ENG 201H with a minimum grade of C.
Attributes: Core II Humanities, Literature
Grade Mode: Normal Grading Mode

ENG 215 Good Novels **3 Credit hours**
An introduction to the basic elements of the novel, such as forms and techniques, through careful reading of selected novels and criticism concerning them. (PR: Completion of Core II Composition Requirement)
Pre-req: ENG 201 with a minimum grade of C or ENG 200H with a minimum grade of C or ENG 201H with a minimum grade of C.
Attributes: Core II Humanities, Literature
Grade Mode: Normal Grading Mode

ENG 220 The Political Novel **3 Credit hours**
Studies in English and American novels relating significantly to political themes. (PR: Completion of Core II Composition Requirement)
Pre-req: ENG 201 with a minimum grade of C or ENG 200H with a minimum grade of C or ENG 201H with a minimum grade of C.
Attributes: Core II Humanities, Literature
Grade Mode: Normal Grading Mode

ENG 221 Postcolonial Literature **3 Credit hours**
Study of postcolonial literature and theory. Focuses on questions of class, gender, sexuality and human rights in the literature of current and former colonies in Asia, Africa, and the Americas. (PR: Completion of Core II Composition Requirement)
Pre-req: ENG 201 with a minimum grade of C or ENG 200H with a minimum grade of C or ENG 201H with a minimum grade of C.
Attributes: Core II Humanities, Literature, Multicultural
Grade Mode: Normal Grading Mode

ENG 225 Southern Literature **3 Credit hours**
The study of selected writers of the American South from its beginnings to the present with special attention on writers after 1920. (PR: Completion of Core II Composition Requirement)
Pre-req: ENG 201 with a minimum grade of C or ENG 200H with a minimum grade of C or ENG 201H with a minimum grade of C.
Attributes: Core II Humanities, Literature
Grade Mode: Normal Grading Mode

ENG 231 Good Stories **3 Credit hours**
Criticism and analysis of representative short stories, primarily British and American. (PR: Completion of Core II Composition Requirement)
Pre-req: ENG 201 with a minimum grade of C or ENG 200H with a minimum grade of C or ENG 201H with a minimum grade of C.
Attributes: Core II Humanities, Literature
Grade Mode: Normal Grading Mode

ENG 232 Good Films **3 Credit hours**
Study of films as narratives, as cultural representations, and as aesthetic expressions. (PR: Completion of Core II Composition Requirement)
Pre-req: ENG 201 with a minimum grade of C or ENG 200H with a minimum grade of C or ENG 201H with a minimum grade of C.
Attributes: Core II Humanities, Literature
Grade Mode: Normal Grading Mode

ENG 235 Crime and Sensation Literature **3 Credit hours**
Examines the literary responses to crime and sensational literature and discusses the artistic, cultural, and historical contexts of those responses. (PR: Completion of Core II Composition Requirement)
Pre-req: ENG 201 with a minimum grade of C or ENG 200H with a minimum grade of C or ENG 201H with a minimum grade of C.
Attributes: Core II Humanities, Literature
Grade Mode: Normal Grading Mode

ENG 236 Forbidden Literature **3 Credit hours**
Examines the literary responses to "banned literature" and discusses the artistic, cultural and historical contexts of those responses. (PR: Completion of Core II Composition Requirement)
Pre-req: ENG 201 with a minimum grade of C or ENG 200H with a minimum grade of C or ENG 201H with a minimum grade of C.
Attributes: Core II Humanities, Literature
Grade Mode: Normal Grading Mode

ENG 240 African American Literatures **3 Credit hours**
Examination of the tradition in African American literatures through close reading. (PR: Completion of Core II Composition Requirement)
Pre-req: ENG 201 with a minimum grade of C or ENG 200H with a minimum grade of C or ENG 201H with a minimum grade of C.
Attributes: Core II Humanities, Literature, Multicultural
Grade Mode: Normal Grading Mode

ENG 241 Multicultural Literatures **3 Credit hours**
Study of texts from diverse ethnic and cultural groups in social and historical context. (PR: Completion of Core II Composition Requirement)
Pre-req: ENG 201 with a minimum grade of C or ENG 200H with a minimum grade of C or ENG 201H with a minimum grade of C.
Attributes: Core II Humanities, Literature, Multicultural
Grade Mode: Normal Grading Mode

ENG 242 Women Writers **3 Credit hours**
A study of women writers in cultural contexts. Surveys attitudes toward women, women writers, and their work. (PR: Completion of Core II Composition Requirement)
Pre-req: ENG 201 with a minimum grade of C or ENG 200H with a minimum grade of C or ENG 201H with a minimum grade of C.
Attributes: Core II Humanities, Literature, Multicultural
Grade Mode: Normal Grading Mode

ENG 263 Intro Digital Literary Studies **3 Credit hours**
An introduction to digital literary studies, including the use of digital tools for textual analysis, the study of electronic literature, and the creation of digital texts.
Pre-req: ENG 201 with a minimum grade of C or ENG 201H with a minimum grade of C or ENG 200H with a minimum grade of C.
Attributes: Digital Humanities, Core II Humanities, Literature
Grade Mode: Normal Grading Mode

ENG 280 Special Topics **1-4 Credit hours**
Writing courses to meet needs of special groups. Cannot be substituted for English 101-102 or English 201H. Writing courses to meet needs of special groups. Cannot be substituted for English 101-102 or English 201H.
Grade Mode: Normal Grading Mode

ENG 281 Special Topics **1-4 Credit hours**
Writing courses to meet needs of special groups. Cannot be substituted for English 101-102 or English 201H. Writing courses to meet needs of special groups. Cannot be substituted for English 101-102 or English 201H.
Grade Mode: Normal Grading Mode

ENG 282 Special Topics **1-4 Credit hours**
Writing courses to meet needs of special groups. Cannot be substituted for English 101-102 or English 201H. Writing courses to meet needs of special groups. Cannot be substituted for English 101-102 or English 201H.
Grade Mode: Normal Grading Mode

ENG 283 Special Topics **1-4 Credit hours**
Writing courses to meet needs of special groups. Cannot be substituted for English 101-102 or English 201 H. Writing courses to meet needs of special groups. Cannot be substituted for English 101-102 or English 201 H.
Grade Mode: Normal Grading Mode

ENG 314 Intro to Professional Writing **3 Credit hours**
An introductory course on the basic elements and types of professional writing, such as technical writing, non-profit writing, business writing, digital writing, scientific writing, and document design.
Pre-req: ENG 201 with a minimum grade of C or ENG 201H with a minimum grade of C or ENG 200H with a minimum grade of C.
Grade Mode: Normal Grading Mode

ENG 344 Introduction to Film Studies **3 Credit hours**
An intensive study of film form (mise-en-scene, cinematography, editing, and sound) and international film history. (PR: Completion of Core II Composition Requirement)
Pre-req: ENG 201 with a minimum grade of C or ENG 200H with a minimum grade of C or ENG 201H with a minimum grade of C.
Attributes: Digital Humanities, Literature
Grade Mode: Normal Grading Mode

ENG 350 Intro to Textual Analysis **3 Credit hours**
An introduction to critical reading of texts from a range of genres and media. Develops explication, critical reading, and research skills. Taken within the first 9 hours of coursework in major. (PR: Completion of Core II composition requirement and declaration of either English major or English 5-Adult major; or permission of chair)
Pre-req: ENG 201 with a minimum grade of C or ENG 200H with a minimum grade of C or ENG 201H with a minimum grade of C.
Attributes: Digital Humanities, Literature
Grade Mode: Normal Grading Mode

ENG 354 Scientific & Tech Writing **3 Credit hours**
Acquaints students with types and styles of written reports required in science, government, industry, and medicine. Practical applications adapted to needs of the individual student. (PR: Completion of Core II Composition Requirement)
Pre-req: ENG 201 with a minimum grade of C or ENG 200H with a minimum grade of C or ENG 201H with a minimum grade of C.
Grade Mode: Normal Grading Mode

ENG 355 Intro to Critical Theory **3 Credit hours**
An examination of the principles and methods of a range of major critical theories, emphasizing how their application affects textual interpretation.
Pre-req: ENG 350 with a minimum grade of C.
Grade Mode: Normal Grading Mode

ENG 360 Intro Creative Writing **3 Credit hours**
An introduction to writing of fiction, poetry, and creative nonfiction. (PR: Completion of Core II composition requirement)
Pre-req: ENG 201 with a minimum grade of C or ENG 200H with a minimum grade of C or ENG 201H with a minimum grade of C.
Grade Mode: Normal Grading Mode

ENG 377 Creative Writing Poetry **3 Credit hours**
Practice in writing poetry. Practice in writing poetry.
Pre-req: ENG 360 with a minimum grade of C.
Grade Mode: Normal Grading Mode

ENG 378 Creative Writing Fiction **3 Credit hours**
Practice in writing fiction. Practice in writing fiction.
Pre-req: ENG 360 with a minimum grade of C.
Grade Mode: Normal Grading Mode

ENG 379 Creative Writing: Nonfiction **3 Credit hours**
Practice in writing creative nonfiction.
Pre-req: ENG 360 with a minimum grade of C.
Grade Mode: Normal Grading Mode

ENG 402 Comp & Rhet Preservice Teacher **3 Credit hours**
Study of rhetorical invention and models of the composing process, with intensive practice in writing. Study of rhetorical invention and models of the composing process, with intensive practice in writing.
Pre-req: ENG 350 with a minimum grade of C and Admitted to Teacher ED with a score of 4.
Grade Mode: Normal Grading Mode

ENG 405 History English Language **3 Credit hours**
The phonology, spelling, grammar, syntax, and vocabulary of previous language periods as background to Modern English. The phonology, spelling, grammar, syntax, and vocabulary of previous language periods as background to Modern English.
Pre-req: ENG 350.
Grade Mode: Normal Grading Mode

ENG 407 Writing, Editing & Doc Design **3 Credit hours**
Study of the principles and practices of professional writing, editing, and document design.
Pre-req: ENG 204 with a minimum grade of C or ENG 350 with a minimum grade of C or ENG 354 with a minimum grade of C.
Grade Mode: Normal Grading Mode

ENG 408 Writing in the Digital World **3 Credit hours**
Development of writing skills and strategies with an emphasis on digital texts and genres. (PR: Completion of Core II composition requirement)
Pre-req: ENG 201 with a minimum grade of C or ENG 201H with a minimum grade of C or ENG 200H with a minimum grade of C.
Attributes: Digital Humanities
Grade Mode: Normal Grading Mode

ENG 409 Milton **3 Credit hours**
Biographical and critical study, including Milton's English poetry and prose, and his literary and intellectual milieu. (PR: any 200-level or 300-level ENG course EXCEPT 200, 204, 205, 314, or 354; or permission of chair)
Pre-req: ENG 203 with a minimum grade of C or ENG 206 with a minimum grade of C or ENG 207 with a minimum grade of C or ENG 209 with a minimum grade of C or ENG 210 with a minimum grade of C or ENG 211 with a minimum grade of C or ENG 212 with a minimum grade of C or ENG 213 with a minimum grade of C or ENG 214 with a minimum grade of C or ENG 215 with a minimum grade of C or ENG 220 with a minimum grade of C or ENG 221 with a minimum grade of C or ENG 225 with a minimum grade of C or ENG 231 with a minimum grade of C or ENG 232 with a minimum grade of C or ENG 235 with a minimum grade of C or ENG 236 with a minimum grade of C or ENG 240 with a minimum grade of C or ENG 241 with a minimum grade of C or ENG 242 with a minimum grade of C or ENG 263 with a minimum grade of C or ENG 344 with a minimum grade of C or ENG 350 with a minimum grade of C or ENG 360 with a minimum grade of C.
Attributes: Literature
Grade Mode: Normal Grading Mode

ENG 410 Shaks Comedy Tragedy & Rom **3 Credit hours**
Intensive study of Shakespeare's comedies, tragicomedies, and late romances. Also includes the Sonnets and Venus and Adonis. (PR: Any 200-level or 300-level ENG course EXCEPT 200, 204, 205, 314, or 354; or permission of chair)
Pre-req: ENG 203 with a minimum grade of C or ENG 206 with a minimum grade of C or ENG 207 with a minimum grade of C or ENG 209 with a minimum grade of C or ENG 210 with a minimum grade of C or ENG 211 with a minimum grade of C or ENG 212 with a minimum grade of C or ENG 213 with a minimum grade of C or ENG 214 with a minimum grade of C or ENG 215 with a minimum grade of C or ENG 220 with a minimum grade of C or ENG 221 with a minimum grade of C or ENG 225 with a minimum grade of C or ENG 231 with a minimum grade of C or ENG 232 with a minimum grade of C or ENG 235 with a minimum grade of C or ENG 236 with a minimum grade of C or ENG 240 with a minimum grade of C or ENG 241 with a minimum grade of C or ENG 242 with a minimum grade of C or ENG 263 with a minimum grade of C or ENG 344 with a minimum grade of C or ENG 350 with a minimum grade of C or ENG 360 with a minimum grade of C.
Attributes: Literature
Grade Mode: Normal Grading Mode

ENG 411 Chaucer **3 Credit hours**
The poetry of Chaucer, chiefly the Canterbury Tales, in the light of medieval tradition and critical analysis. (PR: any 200-level or 300-level ENG course EXCEPT 200, 204, 205, 314, or 354; or permission of chair)
Pre-req: ENG 203 with a minimum grade of C or ENG 206 with a minimum grade of C or ENG 207 with a minimum grade of C or ENG 209 with a minimum grade of C or ENG 210 with a minimum grade of C or ENG 211 with a minimum grade of C or ENG 212 with a minimum grade of C or ENG 213 with a minimum grade of C or ENG 214 with a minimum grade of C or ENG 215 with a minimum grade of C or ENG 220 with a minimum grade of C or ENG 221 with a minimum grade of C or ENG 225 with a minimum grade of C or ENG 231 with a minimum grade of C or ENG 232 with a minimum grade of C or ENG 235 with a minimum grade of C or ENG 236 with a minimum grade of C or ENG 240 with a minimum grade of C or ENG 241 with a minimum grade of C or ENG 242 with a minimum grade of C or ENG 263 with a minimum grade of C or ENG 344 with a minimum grade of C or ENG 350 with a minimum grade of C or ENG 360 with a minimum grade of C.
Attributes: Literature
Grade Mode: Normal Grading Mode

ENG 412 Shaks Hist & Tragedies **3 Credit hours**
Intensive study of Shakespeare's histories and tragedies. (PR: any 200-level or 300-level ENG course EXCEPT 200, 204, 205, 314, or 354; or permission of chair)
Pre-req: ENG 203 with a minimum grade of C or ENG 206 with a minimum grade of C or ENG 207 with a minimum grade of C or ENG 209 with a minimum grade of C or ENG 210 with a minimum grade of C or ENG 211 with a minimum grade of C or ENG 212 with a minimum grade of C or ENG 213 with a minimum grade of C or ENG 214 with a minimum grade of C or ENG 215 with a minimum grade of C or ENG 220 with a minimum grade of C or ENG 221 with a minimum grade of C or ENG 225 with a minimum grade of C or ENG 231 with a minimum grade of C or ENG 232 with a minimum grade of C or ENG 235 with a minimum grade of C or ENG 236 with a minimum grade of C or ENG 240 with a minimum grade of C or ENG 241 with a minimum grade of C or ENG 242 with a minimum grade of C or ENG 263 with a minimum grade of C or ENG 344 with a minimum grade of C or ENG 350 with a minimum grade of C or ENG 360 with a minimum grade of C.
Attributes: Literature
Grade Mode: Normal Grading Mode

ENG 414 19th C British Novel **3 Credit hours**
Austen, Scott, the Brontes, Gaskell, Dickens, Hardy, Schreiner, and others.
Pre-req: ENG 203 with a minimum grade of C or ENG 206 with a minimum grade of C or ENG 207 with a minimum grade of C or ENG 209 with a minimum grade of C or ENG 210 with a minimum grade of C or ENG 211 with a minimum grade of C or ENG 212 with a minimum grade of C or ENG 213 with a minimum grade of C or ENG 214 with a minimum grade of C or ENG 215 with a minimum grade of C or ENG 220 with a minimum grade of C or ENG 221 with a minimum grade of C or ENG 225 with a minimum grade of C or ENG 231 with a minimum grade of C or ENG 232 with a minimum grade of C or ENG 235 with a minimum grade of C or ENG 236 with a minimum grade of C or ENG 240 with a minimum grade of C or ENG 241 with a minimum grade of C or ENG 242 with a minimum grade of C or ENG 263 with a minimum grade of C or ENG 344 with a minimum grade of C or ENG 350 with a minimum grade of C or ENG 360 with a minimum grade of C.
Attributes: Literature
Grade Mode: Normal Grading Mode

ENG 415 Victorian Poetry **3 Credit hours**
Tennyson, Browning, Arnold, and others.(PR: any 200-level or 300-level ENG course EXCEPT 200, 204, 205, 314, or 354; or permission of chair)
Pre-req: ENG 203 with a minimum grade of C or ENG 206 with a minimum grade of C or ENG 207 with a minimum grade of C or ENG 209 with a minimum grade of C or ENG 210 with a minimum grade of C or ENG 211 with a minimum grade of C or ENG 212 with a minimum grade of C or ENG 213 with a minimum grade of C or ENG 214 with a minimum grade of C or ENG 215 with a minimum grade of C or ENG 220 with a minimum grade of C or ENG 221 with a minimum grade of C or ENG 225 with a minimum grade of C or ENG 231 with a minimum grade of C or ENG 232 with a minimum grade of C or ENG 235 with a minimum grade of C or ENG 236 with a minimum grade of C or ENG 240 with a minimum grade of C or ENG 241 with a minimum grade of C or ENG 242 with a minimum grade of C or ENG 263 with a minimum grade of C or ENG 344 with a minimum grade of C or ENG 350 with a minimum grade of C or ENG 360 with a minimum grade of C.
Attributes: Literature
Grade Mode: Normal Grading Mode

ENG 416 Victorian Nonfiction **3 Credit hours**
Essays, speeches, treatises, and other works from Britain's Victorian age. Includes such authors as Arnold, Carlyle, Darwin, Huxley, Eliot, Martineau, Mill, Newman, and others.(PR: any 200-level or 300-level ENG course EXCEPT 200, 204, 205, 314, or 354; or permission of chair)
Pre-req: ENG 203 with a minimum grade of C or ENG 206 with a minimum grade of C or ENG 207 with a minimum grade of C or ENG 209 with a minimum grade of C or ENG 210 with a minimum grade of C or ENG 211 with a minimum grade of C or ENG 212 with a minimum grade of C or ENG 213 with a minimum grade of C or ENG 214 with a minimum grade of C or ENG 215 with a minimum grade of C or ENG 220 with a minimum grade of C or ENG 221 with a minimum grade of C or ENG 225 with a minimum grade of C or ENG 231 with a minimum grade of C or ENG 232 with a minimum grade of C or ENG 235 with a minimum grade of C or ENG 236 with a minimum grade of C or ENG 240 with a minimum grade of C or ENG 241 with a minimum grade of C or ENG 242 with a minimum grade of C or ENG 263 with a minimum grade of C or ENG 344 with a minimum grade of C or ENG 350 with a minimum grade of C or ENG 360 with a minimum grade of C.
Attributes: Literature
Grade Mode: Normal Grading Mode

ENG 418 Addiction Literature **3 Credit hours**
Study of literature that explores addiction as a primary theme. Genres may include memoir and autobiography, fiction, poetry, graphic narratives, video, and digital-born texts. (PR: any 200-level or 300-level ENG course EXCEPT 200, 204, 205, 314, or 354; or permission of chair)
Pre-req: ENG 203 with a minimum grade of C or ENG 206 with a minimum grade of C or ENG 207 with a minimum grade of C or ENG 209 with a minimum grade of C or ENG 210 with a minimum grade of C or ENG 211 with a minimum grade of C or ENG 212 with a minimum grade of C or ENG 213 with a minimum grade of C or ENG 214 with a minimum grade of C or ENG 215 with a minimum grade of C or ENG 220 with a minimum grade of C or ENG 221 with a minimum grade of C or ENG 225 with a minimum grade of C or ENG 231 with a minimum grade of C or ENG 232 with a minimum grade of C or ENG 235 with a minimum grade of C or ENG 236 with a minimum grade of C or ENG 240 with a minimum grade of C or ENG 241 with a minimum grade of C or ENG 242 with a minimum grade of C or ENG 263 with a minimum grade of C or ENG 344 with a minimum grade of C or ENG 350 with a minimum grade of C or ENG 360 with a minimum grade of C.
Grade Mode: Normal Grading Mode

ENG 419 Approaches Teach Lit **3 Credit hours**
The intensive study of the pedagogy of literature and literary critical theory and its classroom applications. The intensive study of the pedagogy of literature and literary critical theory and its classroom applications.
Pre-req: ENG 350 with a minimum grade of C and Admitted to Teacher ED with a score of 4 and (ENG 410 with a minimum grade of C or ENG 412 with a minimum grade of C).
Grade Mode: Normal Grading Mode

ENG 421 American Lit to 1830 **3 Credit hours**
Study of American literature of the Puritan, Colonial, and Federal periods, including such authors as Jonathan Edwards, Edward Taylor, Benjamin Franklin, Phillis Wheatley, Anne Bradstreet, Washington Irving, and James Fenimore Cooper. (PR: any 200-level or 300-level ENG course EXCEPT 200, 204, 205, 314, or 354; or permission of chair)
Pre-req: ENG 203 with a minimum grade of C or ENG 206 with a minimum grade of C or ENG 207 with a minimum grade of C or ENG 209 with a minimum grade of C or ENG 210 with a minimum grade of C or ENG 211 with a minimum grade of C or ENG 212 with a minimum grade of C or ENG 213 with a minimum grade of C or ENG 214 with a minimum grade of C or ENG 215 with a minimum grade of C or ENG 220 with a minimum grade of C or ENG 221 with a minimum grade of C or ENG 225 with a minimum grade of C or ENG 231 with a minimum grade of C or ENG 232 with a minimum grade of C or ENG 235 with a minimum grade of C or ENG 236 with a minimum grade of C or ENG 240 with a minimum grade of C or ENG 241 with a minimum grade of C or ENG 242 with a minimum grade of C or ENG 263 with a minimum grade of C or ENG 344 with a minimum grade of C or ENG 350 with a minimum grade of C or ENG 360 with a minimum grade of C.
Attributes: Literature
Grade Mode: Normal Grading Mode

ENG 422 American Lit 1830-1865 **3 Credit hours**
American literature of the Romantic period, including such authors as Emerson, Douglass, Poe, Melville, Hawthorne, Whitman, Dickinson, and lesser figures of the period. (PR: any 200-level or 300-level ENG course EXCEPT 200, 204, 205, 314, or 354; or permission of chair)
Pre-req: ENG 203 with a minimum grade of C or ENG 206 with a minimum grade of C or ENG 207 with a minimum grade of C or ENG 209 with a minimum grade of C or ENG 210 with a minimum grade of C or ENG 211 with a minimum grade of C or ENG 212 with a minimum grade of C or ENG 213 with a minimum grade of C or ENG 214 with a minimum grade of C or ENG 215 with a minimum grade of C or ENG 220 with a minimum grade of C or ENG 221 with a minimum grade of C or ENG 225 with a minimum grade of C or ENG 231 with a minimum grade of C or ENG 232 with a minimum grade of C or ENG 235 with a minimum grade of C or ENG 236 with a minimum grade of C or ENG 240 with a minimum grade of C or ENG 241 with a minimum grade of C or ENG 242 with a minimum grade of C or ENG 263 with a minimum grade of C or ENG 344 with a minimum grade of C or ENG 350 with a minimum grade of C or ENG 360 with a minimum grade of C.
Attributes: Literature
Grade Mode: Normal Grading Mode

ENG 423 American Lit 1865-1914 **3 Credit hours**
American literature of the Realistic and Naturalistic periods, including such authors as Howells, Crane, Twain, James, Chopin, Dreiser, Chesnutt,and Wharton. (PR: any 200-level or 300-level ENG course EXCEPT 200, 204, 205, 314, or 354; or permission of chair)
Pre-req: ENG 203 with a minimum grade of C or ENG 206 with a minimum grade of C or ENG 207 with a minimum grade of C or ENG 209 with a minimum grade of C or ENG 210 with a minimum grade of C or ENG 211 with a minimum grade of C or ENG 212 with a minimum grade of C or ENG 213 with a minimum grade of C or ENG 214 with a minimum grade of C or ENG 215 with a minimum grade of C or ENG 220 with a minimum grade of C or ENG 221 with a minimum grade of C or ENG 225 with a minimum grade of C or ENG 231 with a minimum grade of C or ENG 232 with a minimum grade of C or ENG 235 with a minimum grade of C or ENG 236 with a minimum grade of C or ENG 240 with a minimum grade of C or ENG 241 with a minimum grade of C or ENG 242 with a minimum grade of C or ENG 263 with a minimum grade of C or ENG 344 with a minimum grade of C or ENG 350 with a minimum grade of C or ENG 360 with a minimum grade of C.
Attributes: Literature
Grade Mode: Normal Grading Mode

ENG 424 American Literature after 1914 **3 Credit hours**
American literature after 1914, including such authors as Faulkner, Hemingway, Cather, Carver, Vonnegut, Morrison, and others. (PR: any 200-level or 300-level ENG course EXCEPT 200, 204, 205, 314, or 354; or permission of chair)
Pre-req: ENG 203 with a minimum grade of C or ENG 206 with a minimum grade of C or ENG 207 with a minimum grade of C or ENG 209 with a minimum grade of C or ENG 210 with a minimum grade of C or ENG 211 with a minimum grade of C or ENG 212 with a minimum grade of C or ENG 213 with a minimum grade of C or ENG 214 with a minimum grade of C or ENG 215 with a minimum grade of C or ENG 220 with a minimum grade of C or ENG 221 with a minimum grade of C or ENG 225 with a minimum grade of C or ENG 231 with a minimum grade of C or ENG 232 with a minimum grade of C or ENG 235 with a minimum grade of C or ENG 236 with a minimum grade of C or ENG 240 with a minimum grade of C or ENG 241 with a minimum grade of C or ENG 242 with a minimum grade of C or ENG 263 with a minimum grade of C or ENG 344 with a minimum grade of C or ENG 350 with a minimum grade of C or ENG 360 with a minimum grade of C.
Attributes: Literature
Grade Mode: Normal Grading Mode

ENG 426 Appalachian Lit & Theory **3 Credit hours**

Appalachian Literature and Theory conducts an in-depth study of aspects of Appalachian culture and literature through the lens of select literary and social theories such as multiculturalism, feminism, or post-colonialism.

Pre-req: ENG 203 with a minimum grade of C or ENG 206 with a minimum grade of C or ENG 207 with a minimum grade of C or ENG 209 with a minimum grade of C or ENG 210 with a minimum grade of C or ENG 211 with a minimum grade of C or ENG 212 with a minimum grade of C or ENG 213 with a minimum grade of C or ENG 214 with a minimum grade of C or ENG 215 with a minimum grade of C or ENG 220 with a minimum grade of C or ENG 221 with a minimum grade of C or ENG 225 with a minimum grade of C or ENG 231 with a minimum grade of C or ENG 232 with a minimum grade of C or ENG 235 with a minimum grade of C or ENG 236 with a minimum grade of C or ENG 240 with a minimum grade of C or ENG 241 with a minimum grade of C or ENG 242 with a minimum grade of C or ENG 263 with a minimum grade of C or ENG 344 with a minimum grade of C or ENG 350 with a minimum grade of C or ENG 360 with a minimum grade of C.

Attributes: Literature

Grade Mode: Normal Grading Mode

ENG 427 Studies in Authors or Genre **3 Credit hours**

Survey includes works by Wyatt, Philip and Mary Sidney, Spenser, Elizabeth I, Nashe, Marlowe, Raleigh, Anne Cecil, Lyly, Isabella Whitney, and Shakespeare, excluding drama. (PR: any 200-level or 300-level ENG course EXCEPT 200, 204, 205, 314, or 354; or permission of chair)

Pre-req: ENG 203 with a minimum grade of C or ENG 206 with a minimum grade of C or ENG 207 with a minimum grade of C or ENG 209 with a minimum grade of C or ENG 210 with a minimum grade of C or ENG 211 with a minimum grade of C or ENG 212 with a minimum grade of C or ENG 213 with a minimum grade of C or ENG 214 with a minimum grade of C or ENG 215 with a minimum grade of C or ENG 220 with a minimum grade of C or ENG 221 with a minimum grade of C or ENG 225 with a minimum grade of C or ENG 231 with a minimum grade of C or ENG 232 with a minimum grade of C or ENG 235 with a minimum grade of C or ENG 236 with a minimum grade of C or ENG 240 with a minimum grade of C or ENG 241 with a minimum grade of C or ENG 242 with a minimum grade of C or ENG 263 with a minimum grade of C or ENG 344 with a minimum grade of C or ENG 350 with a minimum grade of C or ENG 360 with a minimum grade of C.

Attributes: Literature

Grade Mode: Normal Grading Mode

ENG 428 International Literature **3 Credit hours**

Readings in contemporary literature from the non-Anglo-European world. Texts will be taken from Asian, African, South American, Australian, and other authors. (PR: any 200-level or 300-level ENG course EXCEPT 200, 204, 205, 314, or 354; or permission of chair)

Pre-req: ENG 203 with a minimum grade of C or ENG 206 with a minimum grade of C or ENG 207 with a minimum grade of C or ENG 209 with a minimum grade of C or ENG 210 with a minimum grade of C or ENG 211 with a minimum grade of C or ENG 212 with a minimum grade of C or ENG 213 with a minimum grade of C or ENG 214 with a minimum grade of C or ENG 215 with a minimum grade of C or ENG 220 with a minimum grade of C or ENG 221 with a minimum grade of C or ENG 225 with a minimum grade of C or ENG 231 with a minimum grade of C or ENG 232 with a minimum grade of C or ENG 235 with a minimum grade of C or ENG 236 with a minimum grade of C or ENG 240 with a minimum grade of C or ENG 241 with a minimum grade of C or ENG 242 with a minimum grade of C or ENG 263 with a minimum grade of C or ENG 344 with a minimum grade of C or ENG 350 with a minimum grade of C or ENG 360 with a minimum grade of C.

Attributes: International, Literature

Grade Mode: Normal Grading Mode

ENG 429 Multicultural Identities (MC) **3 Credit hours**

Intensive exploration of multicultural identities in texts. Topics may vary. May be repeated up to 6 hrs. with permission of chair. (PR: any 200-level or 300-level ENG course EXCEPT 200, 204, 205, 314, or 354; or permission of chair)

Pre-req: ENG 203 with a minimum grade of C or ENG 206 with a minimum grade of C or ENG 207 with a minimum grade of C or ENG 209 with a minimum grade of C or ENG 210 with a minimum grade of C or ENG 211 with a minimum grade of C or ENG 212 with a minimum grade of C or ENG 213 with a minimum grade of C or ENG 214 with a minimum grade of C or ENG 215 with a minimum grade of C or ENG 220 with a minimum grade of C or ENG 221 with a minimum grade of C or ENG 225 with a minimum grade of C or ENG 231 with a minimum grade of C or ENG 232 with a minimum grade of C or ENG 235 with a minimum grade of C or ENG 236 with a minimum grade of C or ENG 240 with a minimum grade of C or ENG 241 with a minimum grade of C or ENG 242 with a minimum grade of C or ENG 263 with a minimum grade of C or ENG 344 with a minimum grade of C or ENG 350 with a minimum grade of C or ENG 360 with a minimum grade of C.

Attributes: Multicultural

Grade Mode: Normal Grading Mode

ENG 430 Young Adult Literature **3 Credit hours**
Examines literature written for adolescents and young adults, with a focus on coming of age and the formation of identity. (PR: any 200-level or 300-level ENG course EXCEPT 200, 204, 205, 314, or 354; or permission of chair)
Pre-req: ENG 203 with a minimum grade of C or ENG 206 with a minimum grade of C or ENG 207 with a minimum grade of C or ENG 209 with a minimum grade of C or ENG 210 with a minimum grade of C or ENG 211 with a minimum grade of C or ENG 212 with a minimum grade of C or ENG 213 with a minimum grade of C or ENG 214 with a minimum grade of C or ENG 215 with a minimum grade of C or ENG 220 with a minimum grade of C or ENG 221 with a minimum grade of C or ENG 225 with a minimum grade of C or ENG 231 with a minimum grade of C or ENG 232 with a minimum grade of C or ENG 235 with a minimum grade of C or ENG 236 with a minimum grade of C or ENG 240 with a minimum grade of C or ENG 241 with a minimum grade of C or ENG 242 with a minimum grade of C or ENG 263 with a minimum grade of C or ENG 344 with a minimum grade of C or ENG 350 with a minimum grade of C or ENG 360 with a minimum grade of C.
Attributes: Literature, Multicultural
Grade Mode: Normal Grading Mode

ENG 431 Writing for Non-Profits **3 Credit hours**
This foundational course will explore the goals and strategies specific to writing for non-profit organizations. Students will read, analyze, and practice the real world writing tasks that non-profits require. (Completion of Core II Composition Requirement)
Pre-req: ENG 201 with a minimum grade of C or ENG 201H with a minimum grade of C or ENG 200H with a minimum grade of C.
Grade Mode: Normal Grading Mode

ENG 432 Contemporary Literature **3 Credit hours**
Examines literature of the present, its influences, and the increasing diversification of cultural/textual production, including cinema, video, comix/manga, videogames, and blogs. (PR: any 200-level or 300-level ENG course EXCEPT 200, 204, 205, 314, or 354; or permission of chair)
Pre-req: ENG 203 with a minimum grade of C or ENG 206 with a minimum grade of C or ENG 207 with a minimum grade of C or ENG 209 with a minimum grade of C or ENG 210 with a minimum grade of C or ENG 211 with a minimum grade of C or ENG 212 with a minimum grade of C or ENG 213 with a minimum grade of C or ENG 214 with a minimum grade of C or ENG 215 with a minimum grade of C or ENG 220 with a minimum grade of C or ENG 221 with a minimum grade of C or ENG 225 with a minimum grade of C or ENG 231 with a minimum grade of C or ENG 232 with a minimum grade of C or ENG 235 with a minimum grade of C or ENG 236 with a minimum grade of C or ENG 240 with a minimum grade of C or ENG 241 with a minimum grade of C or ENG 242 with a minimum grade of C or ENG 263 with a minimum grade of C or ENG 344 with a minimum grade of C or ENG 350 with a minimum grade of C or ENG 360 with a minimum grade of C.
Attributes: Literature
Grade Mode: Normal Grading Mode

ENG 433 20th C Brit & Irish Poetry **3 Credit hours**
Principal poetry since the Victorian period. (PR: any 200-level or 300-level ENG course EXCEPT 200, 204, 205, 314, or 354; or permission of chair)
Pre-req: ENG 203 with a minimum grade of C or ENG 206 with a minimum grade of C or ENG 207 with a minimum grade of C or ENG 209 with a minimum grade of C or ENG 210 with a minimum grade of C or ENG 211 with a minimum grade of C or ENG 212 with a minimum grade of C or ENG 213 with a minimum grade of C or ENG 214 with a minimum grade of C or ENG 215 with a minimum grade of C or ENG 220 with a minimum grade of C or ENG 221 with a minimum grade of C or ENG 225 with a minimum grade of C or ENG 231 with a minimum grade of C or ENG 232 with a minimum grade of C or ENG 235 with a minimum grade of C or ENG 236 with a minimum grade of C or ENG 240 with a minimum grade of C or ENG 241 with a minimum grade of C or ENG 242 with a minimum grade of C or ENG 263 with a minimum grade of C or ENG 344 with a minimum grade of C or ENG 350 with a minimum grade of C or ENG 360 with a minimum grade of C.
Attributes: Literature
Grade Mode: Normal Grading Mode

ENG 434 20th C American Poetry **3 Credit hours**
Principal poetry since 1900. (PR: any 200-level or 300-level ENG course EXCEPT 200, 204, 205, 314, or 354; or permission of chair)
Pre-req: ENG 203 with a minimum grade of C or ENG 206 with a minimum grade of C or ENG 207 with a minimum grade of C or ENG 209 with a minimum grade of C or ENG 210 with a minimum grade of C or ENG 211 with a minimum grade of C or ENG 212 with a minimum grade of C or ENG 213 with a minimum grade of C or ENG 214 with a minimum grade of C or ENG 215 with a minimum grade of C or ENG 220 with a minimum grade of C or ENG 221 with a minimum grade of C or ENG 225 with a minimum grade of C or ENG 231 with a minimum grade of C or ENG 232 with a minimum grade of C or ENG 235 with a minimum grade of C or ENG 236 with a minimum grade of C or ENG 240 with a minimum grade of C or ENG 241 with a minimum grade of C or ENG 242 with a minimum grade of C or ENG 263 with a minimum grade of C or ENG 344 with a minimum grade of C or ENG 350 with a minimum grade of C or ENG 360 with a minimum grade of C.
Attributes: Literature
Grade Mode: Normal Grading Mode

ENG 435 Modernism **3 Credit hours**
Examines literary modernism and the artistic, cultural, and historical contexts of that movement. (PR: any 200-level or 300-level ENG course EXCEPT 200, 204, 205, 314, or 354; or permission of chair)
Pre-req: ENG 203 with a minimum grade of C or ENG 206 with a minimum grade of C or ENG 207 with a minimum grade of C or ENG 209 with a minimum grade of C or ENG 210 with a minimum grade of C or ENG 211 with a minimum grade of C or ENG 212 with a minimum grade of C or ENG 213 with a minimum grade of C or ENG 214 with a minimum grade of C or ENG 215 with a minimum grade of C or ENG 220 with a minimum grade of C or ENG 221 with a minimum grade of C or ENG 225 with a minimum grade of C or ENG 231 with a minimum grade of C or ENG 232 with a minimum grade of C or ENG 235 with a minimum grade of C or ENG 236 with a minimum grade of C or ENG 240 with a minimum grade of C or ENG 241 with a minimum grade of C or ENG 242 with a minimum grade of C or ENG 263 with a minimum grade of C or ENG 344 with a minimum grade of C or ENG 350 with a minimum grade of C or ENG 360 with a minimum grade of C.
Attributes: Literature
Grade Mode: Normal Grading Mode

ENG 436 Medieval British Lit **3 Credit hours**
Old English elegiac and heroic poetry; Middle English lyrics and romances; the Ricardian poets and Malory. (PR: any 200-level or 300-level ENG course EXCEPT 200, 204, 205, 314, or 354; or permission of chair)
Pre-req: ENG 203 with a minimum grade of C or ENG 206 with a minimum grade of C or ENG 207 with a minimum grade of C or ENG 209 with a minimum grade of C or ENG 210 with a minimum grade of C or ENG 211 with a minimum grade of C or ENG 212 with a minimum grade of C or ENG 213 with a minimum grade of C or ENG 214 with a minimum grade of C or ENG 215 with a minimum grade of C or ENG 220 with a minimum grade of C or ENG 221 with a minimum grade of C or ENG 225 with a minimum grade of C or ENG 231 with a minimum grade of C or ENG 232 with a minimum grade of C or ENG 235 with a minimum grade of C or ENG 236 with a minimum grade of C or ENG 240 with a minimum grade of C or ENG 241 with a minimum grade of C or ENG 242 with a minimum grade of C or ENG 263 with a minimum grade of C or ENG 344 with a minimum grade of C or ENG 350 with a minimum grade of C or ENG 360 with a minimum grade of C.
Attributes: Literature
Grade Mode: Normal Grading Mode

ENG 439 Professional Writing Theory **3 Credit hours**
Study of the major questions and theories relevant to professional writing.
Pre-req: ENG 314 with a minimum grade of C.
Grade Mode: Normal Grading Mode

ENG 440 Selected Topics in Film **3 Credit hours**
Intensive study of a specific theme or genre. Topics will vary. May be repeated up to 6 hrs. with permission of chair.
Pre-req: ENG 350 with a minimum grade of C or ENG 344 with a minimum grade of C or ENG 232 with a minimum grade of C.
Attributes: Literature
Grade Mode: Normal Grading Mode

ENG 442 Gender and Sexuality in Film **3 Credit hours**
Exploration of evolving portrayals of gender roles and sexualities throughout film history and across film genres.
Pre-req: (ENG 350 with a minimum grade of C or ENG 344 with a minimum grade of C or ENG 232 with a minimum grade of C or WS 101 with a minimum grade of C) and (ENG 201 with a minimum grade of C or ENG 201H with a minimum grade of C or ENG 200H with a minimum grade of C).
Attributes: Literature
Grade Mode: Normal Grading Mode

ENG 445 Screenwriting **3 Credit hours**
Practice in writing screenplays.
Pre-req: ENG 201 with a minimum grade of C or ENG 200H with a minimum grade of C or ENG 201H with a minimum grade of C and (ENG 344 or ENG 360 or ART 219 or THE 201).
Attributes: Literature
Grade Mode: Normal Grading Mode

ENG 447 British Romantic Poets **3 Credit hours**
Emphasis on Blake, Wordsworth, Coleridge, Byron, Shelley, and Keats. (PR: any 200-level or 300-level ENG course EXCEPT 200, 204, 205, 314, or 354; or permission of chair)
Pre-req: ENG 203 with a minimum grade of C or ENG 206 with a minimum grade of C or ENG 207 with a minimum grade of C or ENG 209 with a minimum grade of C or ENG 210 with a minimum grade of C or ENG 211 with a minimum grade of C or ENG 212 with a minimum grade of C or ENG 213 with a minimum grade of C or ENG 214 with a minimum grade of C or ENG 215 with a minimum grade of C or ENG 220 with a minimum grade of C or ENG 221 with a minimum grade of C or ENG 225 with a minimum grade of C or ENG 231 with a minimum grade of C or ENG 232 with a minimum grade of C or ENG 235 with a minimum grade of C or ENG 236 with a minimum grade of C or ENG 240 with a minimum grade of C or ENG 241 with a minimum grade of C or ENG 242 with a minimum grade of C or ENG 263 with a minimum grade of C or ENG 344 with a minimum grade of C or ENG 350 with a minimum grade of C or ENG 360 with a minimum grade of C.
Attributes: Literature
Grade Mode: Normal Grading Mode

ENG 450 World Lit to Renaissance **3 Credit hours**
Major works (excluding English), with emphasis on Homer, the Greek Drama, Virgil, Dante, and Cervantes.(PR: any 200-level or 300-level ENG course EXCEPT 200, 204, 205, 314, or 354; or permission of chair)
Pre-req: ENG 203 with a minimum grade of C or ENG 206 with a minimum grade of C or ENG 207 with a minimum grade of C or ENG 209 with a minimum grade of C or ENG 210 with a minimum grade of C or ENG 211 with a minimum grade of C or ENG 212 with a minimum grade of C or ENG 213 with a minimum grade of C or ENG 214 with a minimum grade of C or ENG 215 with a minimum grade of C or ENG 220 with a minimum grade of C or ENG 221 with a minimum grade of C or ENG 225 with a minimum grade of C or ENG 231 with a minimum grade of C or ENG 232 with a minimum grade of C or ENG 235 with a minimum grade of C or ENG 236 with a minimum grade of C or ENG 240 with a minimum grade of C or ENG 241 with a minimum grade of C or ENG 242 with a minimum grade of C or ENG 263 with a minimum grade of C or ENG 344 with a minimum grade of C or ENG 350 with a minimum grade of C or ENG 360 with a minimum grade of C.
Attributes: Literature
Grade Mode: Normal Grading Mode

ENG 451 World Lit Since Renaissance **3 Credit hours**
Major works (excluding English and American), with emphasis on Racine, Moliere, Goethe, and principal continental fiction. (PR: any 200-level or 300-level ENG course EXCEPT 200, 204, 205, 314, or 354; or permission of chair)
Pre-req: ENG 203 with a minimum grade of C or ENG 206 with a minimum grade of C or ENG 207 with a minimum grade of C or ENG 209 with a minimum grade of C or ENG 210 with a minimum grade of C or ENG 211 with a minimum grade of C or ENG 212 with a minimum grade of C or ENG 213 with a minimum grade of C or ENG 214 with a minimum grade of C or ENG 215 with a minimum grade of C or ENG 220 with a minimum grade of C or ENG 221 with a minimum grade of C or ENG 225 with a minimum grade of C or ENG 231 with a minimum grade of C or ENG 232 with a minimum grade of C or ENG 235 with a minimum grade of C or ENG 236 with a minimum grade of C or ENG 240 with a minimum grade of C or ENG 241 with a minimum grade of C or ENG 242 with a minimum grade of C or ENG 263 with a minimum grade of C or ENG 344 with a minimum grade of C or ENG 350 with a minimum grade of C or ENG 360 with a minimum grade of C.
Attributes: Literature
Grade Mode: Normal Grading Mode

ENG 455 Advanced Critical Theory **3 Credit hours**
Intensive study of specific theorists, theoretical schools, or history of literary theory, including application to texts. Topics will vary. May be repeated up to 6 hrs. with permission of chair.
Pre-req: ENG 355 with a minimum grade of C.
Attributes: Literature
Grade Mode: Normal Grading Mode

ENG 460 Comp Writing Center Theory **4 Credit hours**
Introduces students to the study of teaching writing in a classroom setting and in one-to-one tutoring.
Pre-req: ENG 350.
Grade Mode: Normal Grading Mode

ENG 466 Literacy Studies **3 Credit hours**
Theories of writing and reading development with a focus on cultural, linguistic, and rhetorical influences on literacy acquisition. (Completion of Core II Composition Requirement)
Pre-req: ENG 201 with a minimum grade of C or ENG 201H with a minimum grade of C or ENG 200H with a minimum grade of C.
Attributes: Multicultural
Grade Mode: Normal Grading Mode

ENG 467 Visual Rhetoric **3 Credit hours**
Study of the production, strategies, reception, and persuasive effects of visual texts. (Completion of Core II Composition Requirement)
Pre-req: ENG 201 with a minimum grade of C or ENG 201H with a minimum grade of C or ENG 200H with a minimum grade of C.
Grade Mode: Normal Grading Mode

ENG 469 Teaching Creative Writing **3 Credit hours**
Pedagogy and practice for students who plan to teach Creative Writing at the primary, secondary, or college level.
Pre-req: ENG 350 with a minimum grade of C and ENG 360 with a minimum grade of C.
Attributes: Literature
Grade Mode: Normal Grading Mode

ENG 470 Form/Theory: Creative Writing **3 Credit hours**
Readings in creative writing illustrating formal and theoretical concerns. Readings will also be applied to student writing.
Pre-req: ENG 350 with a minimum grade of C and ENG 360 with a minimum grade of C.
Attributes: Literature
Grade Mode: Normal Grading Mode

ENG 475 Intro to Linguistics **3 Credit hours**
The structural and descriptive approach to study of the English language. (Completion of Core II Composition Requirement)
Pre-req: ENG 201 with a minimum grade of C or ENG 200H with a minimum grade of C or ENG 201H with a minimum grade of C.
Grade Mode: Normal Grading Mode

ENG 476 Structures of English Language **3 Credit hours**
Study of the structures of English grammar, including how these structures relate to punctuation, language acquisition, dialect variation, and the history of English. (Completion of Core II Composition Requirement)
Pre-req: ENG 201 with a minimum grade of C or ENG 200H with a minimum grade of C or ENG 201H with a minimum grade of C.
Grade Mode: Normal Grading Mode

ENG 478 Intro to Sociolinguistics **3 Credit hours**
Sociolinguistics is the study of the effects of language in society, relevant to discourse practices, language attitudes variations, shifts, and changes. (Completion of Core II Composition Requirement)
Pre-req: ENG 201 with a minimum grade of C or ENG 200H with a minimum grade of C or ENG 201H with a minimum grade of C.
Grade Mode: Normal Grading Mode

ENG 480 Special Topics **1-4 Credit hours**
Pre-req: ENG 350.
Grade Mode: Normal Grading Mode

ENG 481 Special Topics **1-4 Credit hours**
Pre-req: ENG 350.
Grade Mode: Normal Grading Mode

ENG 482 Special Topics **1-4 Credit hours**
Pre-req: ENG 350.
Grade Mode: Normal Grading Mode

ENG 483 Special Topics **1-4 Credit hours**
Pre-req: ENG 350.
Grade Mode: Normal Grading Mode

ENG 485 Independent Study **1-4 Credit hours**
Pre-req: ENG 350.
Grade Mode: Normal Grading Mode

ENG 486 Independent Study **1-4 Credit hours**
Pre-req: ENG 350.
Grade Mode: Normal Grading Mode

ENG 487 Independent Study **1-4 Credit hours**
Pre-req: ENG 350.
Grade Mode: Normal Grading Mode

ENG 488 Independent Study **1-4 Credit hours**
Pre-req: ENG 350.
Grade Mode: Normal Grading Mode

ENG 490 Internship **3 Credit hours**
A supervised internship. The student works for a local firm/agency to gain practical experience in the major. Arranged by student and department. Supervised by firm. A supervised internship. The student works for a local firm/agency to gain practical experience in the major. Arranged by student and department. Supervised by firm.
Attributes: No Textbook Required
Grade Mode: Credit/No Credit Grade Only

ENG 491 Poetry Workshop **3 Credit hours**
A practical and intensive class in exploring the varieties of creative expression; exercises on the creating of verse in different forms and styles. A practical and intensive class in exploring the varieties of creative expression; exercises on the creating of verse in different forms and styles.
Pre-req: ENG 377 with a minimum grade of C.
Grade Mode: Normal Grading Mode

ENG 492 Fiction Workshop **3 Credit hours**
Offers students a forum for presentation, discussion, and refinement of their work, either short stories or novels. Offers students a forum for presentation, discussion, and refinement of their work, either short stories or novels.
Pre-req: ENG 378 with a minimum grade of C.
Grade Mode: Normal Grading Mode

ENG 493 Creative Nonfiction **3 Credit hours**
A writing workshop where students develop and refine their original creative nonfiction (memoir, biography, essays, travel/leisure writing, etc.), employing techniques typically reserved for fiction (dialogue, narrative, poetic language, etc.).
Pre-req: ENG 379 with a minimum grade of C.
Grade Mode: Normal Grading Mode

ENG 499 Senior Capstone **3 Credit hours**
An intensive examination of topics relevant to advanced English studies. Provides capstone experience through substantial scholarly, creative, and/or pedagogical composition and presentation. (PR: ENG 350, ENG 355, and 12 hours of 400-level English coursework at C or better; or permission of chair)
Pre-req: ENG 350 with a minimum grade of C and (ENG 355 with a minimum grade of C or ENG 439 with a minimum grade of C).
Attributes: Capstone Course
Grade Mode: Normal Grading Mode

Entrepreneurship (ENT)

- General Education Course

ENT 220 Creativity & Innovation **3 Credit hours**
Introduction to creativity theory, including exposure to basic frameworks, concepts, and obstacles to creativity. Through practical application, the relationships between creativity, innovation and entrepreneurship are explored.
Grade Mode: Normal Grading Mode

ENT 280 Special Topics **1-4 Credit hours**
Special topics in entrepreneurship.
Grade Mode: Normal Grading Mode

ENT 320 Marketing for Entrepreneurs **3 Credit hours**
Survey of inbound digital marketing strategies that are cost effective for small firms and start-ups. Strategies include search engine optimization and content marketing.
Grade Mode: Normal Grading Mode

ENT 340 Business Models for Start-Ups **3 Credit hours**
Identification and evaluation of business opportunities; Systematic analysis and design of critical start-up business components.
Pre-req: ENT 220 with a minimum grade of D and ENT 360 with a minimum grade of D.
Grade Mode: Normal Grading Mode

ENT 350 The Startup Experience **3 Credit hours**
An experiential learning course, students will complete a portion of this course as an apprentice at a new or small business followed by experience starting an online business. (PR: MGT 360)
Pre-req: ENT 360 with a minimum grade of D.
Grade Mode: Normal Grading Mode

ENT 360 Intro to Entrepreneurship **3 Credit hours**
A study of the functions, techniques and problems of management of the small business enterprise as opposed to the large-scale corporate situation. The day section, in cooperation with the U.S. Small Business Administration, provides students with field experience as management consultants to an area small business.
Pre-req: MGT 320 with a minimum grade of D or MKT 340 with a minimum grade of D.
Grade Mode: Normal Grading Mode

ENT 370 Dilemmas & Debates in Entrp **3 Credit hours**
Refered by a faculty member, students will engage with entrepreneurs to discuss issues relevant to new ventures including partnerships, working with family, debt, ethical dilemmas, and customer issues.
Pre-req: ENT 360 with a minimum grade of D.
Grade Mode: Normal Grading Mode

ENT 380 Social Entrepreneurship **3 Credit hours**
Introduces students to social entrepreneurship, social venture models, and funding options including philanthropy, government funding, and income generating, self-sustaining business models.
Pre-req: MGT 360 with a minimum grade of D or ENT 360 with a minimum grade of D.
Grade Mode: Normal Grading Mode

ENT 410 Corporate Intrapreneurship **3 Credit hours**
Application of entrepreneurial mindset, behavior, and capability to the development of new opportunities within an existing organization.
Pre-req: ENT 220 with a minimum grade of D and ENT 360 with a minimum grade of D.
Grade Mode: Normal Grading Mode

ENT 467 Strategic Entrepreneurship **3 Credit hours**
Lean startup and strategic thinking from both causation and effectuation viewpoints utilizing interdisciplinary skills to develop an original business concept, model, and plan. Capstone course.
Pre-req: ENT 350 with a minimum grade of D.
Attributes: Capstone Course
Grade Mode: Normal Grading Mode

ENT 469 New Venture Launch **3 Credit hours**
Working with advisor and mentors, students start their own ventures, develop prototypes (or service simulation), conduct market test, pivot on their original plans, and pitch ideas to local entrepreneur community.
Pre-req: ENT 467 with a minimum grade of D.
Grade Mode: Normal Grading Mode

ENT 471 Social Enterprise Practicum **3 Credit hours**
Supervised field experience in a social enterprise for a minimum of 200 clock hours. Regular conferences with instructor and weekly progress reports.
Pre-req: ENG 471.
Grade Mode: Normal Grading Mode

ENT 472 New Venture Practicum **3 Credit hours**
Supervised field experience in a new or existing venture for a minimum of 200 clock hours. Regular conferences with instructor and weekly progress reports.
Pre-req: ENT 467 with a minimum grade of D.
Grade Mode: Normal Grading Mode

ENT 480 Special Topics **1-4 Credit hours**
Study of an advanced topic not normally covered in other courses.
Grade Mode: Normal Grading Mode

Environmental Science (ES)

- General Education Course

ES 280 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

ES 281 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

ES 282 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

ES 283 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

ES 323 Env Assess Aqua Sys **4 Credit hours**
Use of scientific procedures and current technology to characterize and quantify sensitive elements of aquatic ecosystems and to assess human impact on these systems. Use of scientific procedures and current technology to characterize and quantify sensitive elements of aquatic ecosystems and to assess human impact on these systems.
Pre-req: ES 300 and BSC 121.
Grade Mode: Normal Grading Mode

ES 425 Impact Assmt Documentation **3 Credit hours**
Use of current concepts in conservation biology to examine the impacts of habitat perturbations on people and species of concern. Use of current concepts in conservation biology to examine the impacts of habitat perturbations on people and species of concern.
Pre-req: ES 322 and ES 323.
Grade Mode: Normal Grading Mode

ES 480 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

ES 481 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

ES 482 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

ES 483 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

ES 485 Independent Study **1-4 Credit hours**
An approved study of special interest concerning environmental science, under the supervision of a faculty member. (PR: Permission of Instructor). An approved study of special interest concerning environmen- tal science, under the supervision of a faculty member. (PR: Permission of Instructor).
Grade Mode: Normal Grading Mode

ES 486 Independent Study **1-4 Credit hours**
An approved study of special interest concerning environmental science, under the supervision of a faculty member. (PR: Permission of Instructor). An approved study of special interest concerning environmental science, under the supervision of a faculty member. (PR: Permission of Instructor).
Grade Mode: Normal Grading Mode

ES 487 Independent Study **1-4 Credit hours**
An approved study of special interest concerning environmental science, under the supervision of a faculty member. (PR: Permission of Instructor). An approved study of special interest concerning environmental science, under the supervision of a faculty member. (PR: Permission of Instructor).
Grade Mode: Normal Grading Mode

ES 488 Independent Study **1-4 Credit hours**
An approved study of special interest concerning environmental science, under the supervision of a faculty member. (PR: Permission of Instructor). An approved study of special interest concerning environmental science, under the supervision of a faculty member. (PR: Permission of Instructor).
Grade Mode: Normal Grading Mode

ES 499 ES Capstone Project **1-6 Credit hours**
An individualized environmental science capstone project, which will be planned and carried out under the supervision of a faculty member. (Permission of Instructor and minimum of Junior standing). An individualized environmental science capstone project, which will be planned and carried out under the supervision of a faculty member. (Permission of Instructor and minimum of Junior standing).
Grade Mode: Normal Grading Mode

Exercise Science and Sport (ESS)

- General Education Course

ESS 123 Phys Ability Motor Skills **1 Credit hour**
Attributes: PE Activity
Grade Mode: Normal Grading Mode

ESS 124 Fundamentals of Movement **1 Credit hour**
Attributes: PE Activity
Grade Mode: Normal Grading Mode

ESS 211 Physiology of Fitness **3 Credit hours**
The student will gain knowledge of behavior change, components of exercise sessions, cardinal principles of conditioning, basics of fitness programming, and instructing individual and group exercise sessions. The student will gain knowledge of behavior change, components of exercise sessions, cardinal principles of conditioning, basics of fitness programming, and instructing individual and group exercise sessions.
Grade Mode: Normal Grading Mode

ESS 215 Intro to Exercise Science **3 Credit hours**
Introductory overview of the current trends and theories in exercise science. Preview the body systems, exercise training, and preparation for professional certification and careers in exercise science.
Grade Mode: Normal Grading Mode

ESS 220 Fitness and Wellness **3 Credit hours**
Course addresses fitness and weight control and modes of change. Primary focus is on goals in nutrition, label identification, nutrient assessment, weight control, and fitness and how to reach them safely.
Grade Mode: Normal Grading Mode

ESS 295 Adult Fitness Prog Indust **2 Credit hours**
Grade Mode: Normal Grading Mode

ESS 301 Phil Sport & Phys Activity **3 Credit hours**
Development of philosophic reasoning skills to better understand the role that philosophy plays in our understanding and conception of physical activity and sport. Development of philosophic reasoning skills to better understand the role that philosophy plays in our understanding and conception of physical activity and sport.
Grade Mode: Normal Grading Mode

ESS 345 Exercise Physiology **3 Credit hours**
Focuses on physiological and functional alterations in response to acute and chronic exercise with emphasis on metabolic, neuroendocrine, neuromuscular, cardiopulmonary, and environmental adaptations. Focuses on physiological and functional alterations in response to acute and chronic exercise with emphasis on metabolic, neuroendocrine, neuromuscular, cardiopulmonary, and environmental adaptations.
Pre-req: BSC 228 with a minimum grade of C.
Grade Mode: Normal Grading Mode

ESS 346 Exercise Physiology Lab **2 Credit hours**
Laboratory course that demonstrates and reinforces concepts pertaining to the effects of exercise on physiological systems. Laboratory course that demonstrates and reinforces concepts pertaining to the effects of exercise on physiological systems.
Pre-req: ESS 345 (may be taken concurrently).
Concurrent PR: ESS 345
Grade Mode: Normal Grading Mode

ESS 365 Tests & Measurements PE **3 Credit hours**
Grade Mode: Normal Grading Mode

ESS 375 Fitness Assess & Exerc Prescr **3 Credit hours**
Focuses on the processes and procedures of physical fitness evaluation and prescription. Emphasis is placed on the design of individual and group exercise programs. Focuses on the processes and procedures of physical fitness evaluation and prescription. Emphasis is placed on the design of individual and group exercise programs.
Pre-req: ESS 345 with a minimum grade of C.
Grade Mode: Normal Grading Mode

ESS 385 Devel Adult Fitness Prog **3 Credit hours**
Pre-req: ESS 345.
Grade Mode: Normal Grading Mode

ESS 386 Adult Fitness **3 Credit hours**
Discuss health risk appraisal and exercise benefits of commonly seen pathophysiology among the U.S. adults.
Pre-req: ESS 345 with a minimum grade of C.
Grade Mode: Normal Grading Mode

ESS 418 Ancient & Medi Sport History **3 Credit hours**
An in-depth investigation of the role of sport in ancient and medieval societies. The course focuses on ancient Greece, Rome, and medieval Europe, but will also briefly cover non-Western cultures. An in-depth investigation of the role of sport in ancient and medieval societies. The course focuses on ancient Greece, Rome, and medieval Europe, but will also briefly cover non-Western cultures.
Attributes: Multicultural
Grade Mode: Normal Grading Mode

ESS 427 Methods Coaching Football **2 Credit hours**
Grade Mode: Normal Grading Mode

ESS 428 Methods Coaching Baseball **2 Credit hours**
Grade Mode: Normal Grading Mode

ESS 429 Methods Coaching Golf **2 Credit hours**
Grade Mode: Normal Grading Mode

ESS 436 Methods Coaching Tennis **2 Credit hours**
Grade Mode: Normal Grading Mode

ESS 437 Method Coach Volleyball **2 Credit hours**
Grade Mode: Normal Grading Mode

ESS 442 Princ of Strength & Cond **3 Credit hours**
Application of strength and conditioning principles in the development and administration of sport-based exercise programs. Emphasis on the teaching of flexibility, powerlifting, Olympic weightlifting, and speed and agility programs. Application of strength and conditioning principles in the development and administration of sport-based exercise programs. Emphasis on the teaching of flexibility, powerlifting, Olympic weightlifting, and speed and agility programs.
Pre-req: HS 365 with a minimum grade of D.
Grade Mode: Normal Grading Mode

ESS 443 Prin of Strength Cond Lab **1 Credit hour**
Laboratory course that demonstrates strength and conditioning skills. Practical application of strength and conditioning principles with emphasis on the teaching of flexibility, powerlifting, Olympic weightlifting, and speed and agility programs. Laboratory course that demonstrates strength and conditioning skills. Practical application of strength and conditioning principles with emphasis on the teaching of flexibility, powerlifting, Olympic weightlifting, and speed and agility programs.
Pre-req: ESS 345 with a minimum grade of D or ESS 321 with a minimum grade of D.
Co-req: ESS 442
Grade Mode: Normal Grading Mode

ESS 447 Advanced Exercise Physiology **3 Credit hours**
The course in Advanced Exercise Physiology will focus on the detailed study of the cardiovascular, endocrine, immune, neuromuscular, and respiratory systems in response to acute and chronic exercise. The course in Advanced Exercise Physiology will focus on the detailed study of the cardiovascular, endocrine, immune, neuromuscular, and respiratory systems in response to acute and chronic exercise.
Pre-req: ESS 345.
Grade Mode: Normal Grading Mode

ESS 476 Theo Prac Aspect Coaching **3 Credit hours**
Grade Mode: Normal Grading Mode

ESS 478 Exercise Metabolism **3 Credit hours**
Pre-req: ESS 345 with a minimum grade of C.
Grade Mode: Normal Grading Mode

ESS 480 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

ESS 481 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

ESS 482 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

ESS 483 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

ESS 485 Independent Study **1-4 Credit hours**
Grade Mode: Normal Grading Mode

ESS 486 Independent Study **1-4 Credit hours**
Grade Mode: Normal Grading Mode

ESS 487 Independent Study **1-4 Credit hours**
Grade Mode: Normal Grading Mode

ESS 488 Independent Study **1-4 Credit hours**
Grade Mode: Normal Grading Mode

ESS 491 Internship Exercise Science **1-12 Credit hours**
Field internship experience.
Pre-req: ESS 375 with a minimum grade of C.
Attributes: Capstone Course, No Textbook Required
Grade Mode: Normal Grading Mode

Finance (FIN)

- General Education Course

FIN 175 Personal Finance (CT) **3 Credit hours**
To assist the consumer in management of personal financial affairs. Topics are consumerism, insurance, savings instruments, banking, and personal expenditures and budgeting, personal taxes, house buying, introduction to investments, and estate planning.
Attributes: Critical Thinking
Grade Mode: Normal Grading Mode

FIN 280 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

FIN 321 Risk Insurance Principles **3 Credit hours**
Fundamental concepts and principles of risk; techniques used to manage pure risks, and the role of insurance and the insurance mechanism in handling the exposures of individuals and businesses.
Grade Mode: Normal Grading Mode

FIN 323 Principles of Finance **3 Credit hours**
Business finance from viewpoint of business manager; use of financial statements, tools, and concepts for measuring and planning for profitability and liquidity. Business finance from viewpoint of business manager; use of financial statements, tools, and concepts for measuring and planning for profitability and liquidity.
Pre-req: ACC 215 with a minimum grade of D and (MGT 218 with a minimum grade of D or MTH 225 with a minimum grade of D or STA 225 with a minimum grade of D or MGT 318 with a minimum grade of D or IST 130 with a minimum grade of D or EDF 417 with a minimum grade of D or PSY 223 with a minimum grade of D or SOC 345 with a minimum grade of D).
Grade Mode: Normal Grading Mode

FIN 327 Life & Health Insurance **3 Credit hours**
Legal facets of life, health, and annuity contracts; risk selection; programming; mathematics of life insurance; taxation; regulation of companies.
Pre-req: FIN 321 with a minimum grade of D.
Grade Mode: Normal Grading Mode

FIN 329 Prop & Liability Insur **3 Credit hours**
Risk management and insurance tools applied to the needs of the corporate enterprise; direct/indirect property exposures; third-party claims; workers compensation, fidelity; crime; boiler/machinery; valuation and insurance surveys.
Pre-req: FIN 321 with a minimum grade of D.
Grade Mode: Normal Grading Mode

FIN 343 Intermediate Financial Manage **3 Credit hours**
Application of financial principles to corporate business problems. Computer analysis will be utilized where appropriate. Application of financial principles to corporate business problems. Computer analysis will be utilized where appropriate.
Pre-req: FIN 323 with a minimum grade of D.
Grade Mode: Normal Grading Mode

FIN 356 Finan Mgt Health Care Org **3 Credit hours**
Management of working capital, evaluation of financial data, capital budgeting, the capitalism process, and the study of third party reimbursement systems. Management of working capital, evaluation of financial data, capital budgeting, the capitalism process, and the study of third party reimbursement systems.
Pre-req: FIN 323 with a minimum grade of D.
Grade Mode: Normal Grading Mode

FIN 360 Commercial Banking **3 Credit hours**
Bank structure; asset and liability management; management of reserves; liquidity management; credit analysis and loan administration; costs and pricing of bank services; analysis of bank performance and capital adequacy; evolution of the "financial supermarket."
Pre-req: FIN 323 with a minimum grade of D.
Grade Mode: Normal Grading Mode

FIN 370 Principles of Investment **3 Credit hours**
A study of financial market operations, security analysis and portfolio selection. Models of capital market equilibrium, trade-off between risk and return, and how to evaluate portfolio performance are also discussed.
Pre-req: FIN 323 with a minimum grade of D.
Grade Mode: Normal Grading Mode

FIN 380 Entrepreneurial Finance **3 Credit hours**
Entrepreneurial finance examines the principles of small business finance which include projecting financial needs and surveying potential sources of financing. Other areas covered include financial forecasting, and sources of capital.
Grade Mode: Normal Grading Mode

FIN 405 Social Ins Employee Benefits **3 Credit hours**
Coverage and limitations of social insurance; social security; worker's compensation; unemployment insurance; medicare, medicaid, integration with private insurance and employee benefits; theory of group programs; pension plans.
Pre-req: FIN 321 with a minimum grade of D.
Grade Mode: Normal Grading Mode

FIN 410 Corporate Risk Management **3 Credit hours**
Identification, analysis, and handling of the risk exposures faced by businesses and risk managers; loss prevention and control; risk retention; self-insurance and corporate insurance programs.
Pre-req: FIN 321 with a minimum grade of D.
Grade Mode: Normal Grading Mode

FIN 425 Portfolio Analysis and Manage **3 Credit hours**
Analytical procedures for valuing various financial securities and techniques for the creation and maintenance of portfolios. Analytical procedures for valuing various financial securities and techniques for the creation and maintenance of portfolios.
Pre-req: FIN 370 with a minimum grade of D.
Grade Mode: Normal Grading Mode

FIN 431 Futures and Options **3 Credit hours**
To introduce options and futures, their market microstructure, their theoretical foundation pertaining to pricing and hedging with such contracts, and their uses.
Pre-req: FIN 370 with a minimum grade of D.
Grade Mode: Normal Grading Mode

FIN 432 Financial Advising: FINRA S-7 **3 Credit hours**
This course prepares students for the Series 7 exam that entitles the holder to sell all types of securities products with the exception of commondities and futures.
Grade Mode: Normal Grading Mode

FIN 440 International Fin Management **3 Credit hours**
International financing techniques and the role of finance in multinational organizations. International financing techniques and the role of finance in multinational organizations.
Pre-req: FIN 323 with a minimum grade of D.
Attributes: International
Grade Mode: Normal Grading Mode

FIN 470 Financial Policies/Strategies **3 Credit hours**
Financial planning, working capital management, capital budgeting, dividend policy and comprehensive problems. Capstone Experience.
Pre-req: FIN 343 with a minimum grade of D and FIN 440 with a minimum grade of D.
Attributes: Capstone Course
Grade Mode: Normal Grading Mode

FIN 475 Intl Business Strategies **3 Credit hours**
Strategies for gaining competitive advantage in the global business environment. Topics include international trade and investment, economic growth, and operations of multinational corporations. Capstone Experience for International Business major. Strategies for gaining competitive advantage in the global business environment. Topics include international trade and investment, economic growth, and operations of multinational corporations. Capstone Experience for International Business major.
Pre-req: ECN 421 with a minimum grade of D and FIN 343 with a minimum grade of D.
Attributes: Capstone Course, International
Grade Mode: Normal Grading Mode

FIN 480 Special Topics **1-4 Credit hours**
Study of an advanced topic not normally covered in other courses. Finance majors only, with permission of department chair. Study of an advanced topic not normally covered in other courses. Finance majors only, with permission of depart- ment chairman.
Grade Mode: Normal Grading Mode

FIN 485 Independent Study **1-4 Credit hours**
Grade Mode: Normal Grading Mode

FIN 490 Internship **3-12 Credit hours**
A supervised internship in which the student works for a business firm/agency to gain practical experience in the student's major. The program of work and study will be defined in advance and the students performance will be evaluated. A supervised internship in which the student works for a business firm/agency to gain practical experience in the student's major. The program of work and study will be defined in advance and the students performance will be evaluated.
Grade Mode: Credit/No Credit Grade Only

First-Year Seminar (FYS)

- General Education Course

FYS 100 First Yr Sem Critical Thinking **3 Credit hours**
Students will learn critical thinking skills integral to life-long learning through discussion, interaction, discovery, problem-solving, writing, research, reflection, and examination of multicultural/international issues. Students will learn critical thinking skills integral to life-long learning through discussion, interaction, discovery, problem-solving, writing, research, reflection, and examination of multicultural/international issues.
Grade Mode: Normal Grading Mode

FYS 100H First Year Seminar-Honors **3 Credit hours**
Students will develop intentional critical thinking skills integral to lifelong learning through inquiry, discussion, interaction, discovery, problem-solving, writing, research, reflection and examination of complex multicultural/global ideas and themes. Students will develop intentional critical thinking skills integral to lifelong learning through inquiry, discussion, interaction, discovery, problem-solving, writing, research, reflection and examination of complex multicultural/global ideas and themes.
Pre-req: Admitted Honors College with a score of 1.
Attributes: Honors
Grade Mode: Normal Grading Mode

French (FRN)

- General Education Course

FRN 101 Elementary French I **3 Credit hours**
Pronunciation, conversation, reading, and composition with emphasis on aural/oral development. Pronunciation, conversation, reading, and composition with emphasis on aural/oral development.
Grade Mode: Normal Grading Mode

FRN 102 Elementary French II **3 Credit hours**
Pronunciation, conversation, reading, and composition with emphasis on aural/oral development. Pronunciation, conversation, reading, and composition with emphasis on aural/oral development.
Pre-req: FRN 101 with a minimum grade of C.
Grade Mode: Normal Grading Mode

FRN 203 Intermediate French III **3 Credit hours**
Continuation on the intermediate level of the basic language skills: pronunciation, conversation, reading, and composition with emphasis on aural/oral development. Continuation on the intermediate level of the basic language skills: pronunciation, conversation, reading, and composi- tion with emphasis on aural/oral development.
Pre-req: FRN 102 with a minimum grade of C or FRN 112 with a minimum grade of C.
Grade Mode: Normal Grading Mode

FRN 204 Intermediate French IV **3 Credit hours**
Development of practical conversational skills, reading for comprehension, and directed composition. Development of practical conversational skills, reading for comprehension, and directed composition.
Pre-req: FRN 203 with a minimum grade of C.
Attributes: Foreign Language
Grade Mode: Normal Grading Mode

FRN 240 French Society & Life **3 Credit hours**
Selected topics relating to culture and life in the Frenchspeaking countries. Lectures, readings, and discussions in English. Selected topics relating to culture and life in the French- speaking countries. Lectures, readings, and discussions in English.
Attributes: Core II Humanities, International
Grade Mode: Normal Grading Mode

FRN 280 Special Topics **1-4 Credit hours**
Pre-req: FRN 204.
Grade Mode: Normal Grading Mode

FRN 281 Special Topics **1-4 Credit hours**
Pre-req: FRN 204.
Grade Mode: Normal Grading Mode

FRN 282 Special Topics **1-4 Credit hours**
Pre-req: FRN 204.
Grade Mode: Normal Grading Mode

FRN 283 Special Topics **1-4 Credit hours**
Pre-req: FRN 204.
Grade Mode: Normal Grading Mode

FRN 304 Masterpieces in Trans **3 Credit hours**
This course deals with major works of French literature and requires no prior background in French literature history. The course will be conducted in English. This course deals with major works of French literature and requires no prior background in French literature history. The course will be conducted in English.
Attributes: Literature
Grade Mode: Normal Grading Mode

FRN 305 Intro to FRN Comp & Conv **3 Credit hours**
Writing/Speaking intensive course designed to develop communicative skills and review language fundamentals acquired in FRN 101 204 sequence (2 years). Course taught in French. PR: FRN 204) Writing/ Speaking intensive course designed to develop communicative skills and review language fundamentals acquired in FRN 101 - 204 sequence (2 years). Course taught in French. PR: FRN 204)
Pre-req: FRN 204 with a minimum grade of D.
Grade Mode: Normal Grading Mode

FRN 315 Adv Grammar & Composition **3 Credit hours**
Study of idioms, grammatical structure, and syntax with emphasis on free composition, use of language laboratory, and formal study of the art of translation from English to French. Study of idioms, grammatical structure, and syntax with em- phasis on free composition, use of language laboratory, and formal study of the art of translation from English to French.
Pre-req: FRN 204.
Grade Mode: Normal Grading Mode

FRN 317 Survey French Literature **3 Credit hours**
A study of important literary movements, representative authors and their works from the Middle Ages to present. A study of important literary movements, representative authors and their works from the Middle Ages to present.
Pre-req: FRN 204.
Attributes: Literature
Grade Mode: Normal Grading Mode

FRN 323 Adv Frn Gram & Oral Com **3 Credit hours**
Analysis of grammatical structures and introduction to phonetics. Oral and written exercises, presentations, and discussion. Course conducted mainly in French. (PR: FRN 204) Analysis of grammatical structures and introduction to phonetics. Oral and written exercises, presentations, and discussion. Course conducted mainly in French. (PR: FRN 204)
Pre-req: FRN 204.
Grade Mode: Normal Grading Mode

FRN 335 Frn Civilization and Culture **3 Credit hours**
Pre-req: FRN 204.
Grade Mode: Normal Grading Mode

FRN 401 17th Century French Theater **3 Credit hours**
Study of representative plays by the classical dramatists Corneille, Moliere, and Racine. This course is conducted entirely in French. Study of representative plays by the classical dramatists Corneille, Moliere, and Racine. This course is conducted entirely in French.
Pre-req: FRN 305 or FRN 306 or FRN 315 or FRN 316 or FRN 317 or FRN 318 or FRN 323 or FRN 324 or FRN 335 or FRN 336.
Attributes: Literature
Grade Mode: Normal Grading Mode

FRN 402 18th Century French Lit **3 Credit hours**
Study of representative works by the philosophes, Montesquieu, Rousseau, Voltaire, and Diderot. The course will be conducted in French. (PR: FRN 204) Study of representative works by the philosophes, Montesquieu, Rousseau, Voltaire, and Diderot. The course will be conducted in French. (PR: FRN 204)
Pre-req: FRN 305 or FRN 306 or FRN 315 or FRN 316 or FRN 317 or FRN 318 or FRN 323 or FRN 324 or FRN 335 or FRN 336.
Attributes: Literature
Grade Mode: Normal Grading Mode

FRN 403 19th Century French Novel **3 Credit hours**
A study of major novels chosen to illustrate the romantic, realistic, and naturalistic literary movements. The course is conducted in French. A study of major novels chosen to illustrate the romantic, realistic, and naturalistic literary movements. The course is conducted in French.
Pre-req: FRN 305 or FRN 306 or FRN 315 or FRN 316 or FRN 317 or FRN 318 or FRN 323 or FRN 324 or FRN 335 or FRN 336.
Attributes: Literature
Grade Mode: Normal Grading Mode

FRN 404 20th Century French Novel **3 Credit hours**
A study of representative 20th Century French novels by Proust, Malraux, Sartre, Camus, Robbe-Grillet. The course will be taught in French. A study of representative 20th Century French novels by Proust, Malraux, Sartre, Camus, Robbe-Grillet. The course will be taught in French.
Pre-req: FRN 305 or FRN 306 or FRN 315 or FRN 316 or FRN 317 or FRN 318 or FRN 323 or FRN 324 or FRN 335 or FRN 336.
Attributes: International
Grade Mode: Normal Grading Mode

FRN 417 Contemporary Frn Film **3 Credit hours**
Course on selected films by French directors of the New Wave and the Post New-Wave period.
Grade Mode: Normal Grading Mode

FRN 425 Devel of French Prose I **3 Credit hours**
An analysis of the important works that mark the evolution of French Prose writers from the Middle Ages through the 18th Century. Readings and discussions are in French. An analysis of the important works that mark the evolution of French Prose writers from the Middle Ages through the 18th Century. Readings and discussions are in French.
Pre-req: FRN 204.
Grade Mode: Normal Grading Mode

FRN 427 Dev Frn Poetry-Theater I **3 Credit hours**
A study of literary works illustrating the development of poetry and theater in France from the Middle Ages through the 18th Century. A study of literary works illustrating the development of poetry and theater in France from the Middle Ages through the 18th Century.
Pre-req: FRN 317 and FRN 318.
Grade Mode: Normal Grading Mode

FRN 480 Special Topics **1-4 Credit hours**
A course for advanced students sufficiently prepared to do constructive work in phases of the language or literature of interest to them. A course for advanced students sufficiently prepared to do constructive work in phases of the language or literature of interest to them.
Pre-req: FRN 305 or FRN 306 or FRN 315 or FRN 316 or FRN 317 or FRN 318 or FRN 323 or FRN 324 or FRN 335 or FRN 336.
Grade Mode: Normal Grading Mode

FRN 481 Special Topics **1-4 Credit hours**
A course for advanced students sufficiently prepared to do constructive work in phases of the language or literature of interest to them. A course for advanced students sufficiently prepared to do constructive work in phases of the language or literature of interest to them.
Pre-req: FRN 305 or FRN 306 or FRN 315 or FRN 316 or FRN 317 or FRN 318 or FRN 323 or FRN 324 or FRN 335 or FRN 336.
Grade Mode: Normal Grading Mode

FRN 485 Independent Study **1-4 Credit hours**
Pre-req: FRN 305 or FRN 306 or FRN 315 or FRN 316 or FRN 317 or FRN 318 or FRN 323 or FRN 324 or FRN 335 or FRN 336.
Grade Mode: Normal Grading Mode

FRN 486 Independent Study **1-4 Credit hours**
Pre-req: FRN 305 or FRN 306 or FRN 315 or FRN 316 or FRN 317 or FRN 318 or FRN 323 or FRN 324 or FRN 335 or FRN 336.
Grade Mode: Normal Grading Mode

FRN 487 Independent Study **1-4 Credit hours**
Pre-req: FRN 305 or FRN 306 or FRN 315 or FRN 316 or FRN 317 or FRN 318 or FRN 323 or FRN 324 or FRN 335 or FRN 336.
Grade Mode: Normal Grading Mode

FRN 488 Independent Study **1-4 Credit hours**
Pre-req: FRN 305 or FRN 306 or FRN 315 or FRN 316 or FRN 317 or FRN 318 or FRN 323 or FRN 324 or FRN 335 or FRN 336.
Grade Mode: Normal Grading Mode

Geography (GEO)

- General Education Course

GEO 100 Intro to Human Geography (CT) **3 Credit hours**
This critical thinking course provides a systematic examination of contemporary concepts and processes of human geography in global perspective, including economics, geopolitics, culture, nationalism, urbanization, governance, agriculture, population, and migration.
Attributes: Critical Thinking, International, Core II Social Sciences
Grade Mode: Normal Grading Mode

GEO 101 Physical Geography (CT) **4 Credit hours**
Systematic survey of earth-sun relationships, land-surface form, climate, soils, water, natural vegetation, and other natural content as a background for human geography. Systematic survey of earth-sun relationships, land-surface form, climate, soils, water, natural vegetation, and other natural content as a background for human geography.
Attributes: Critical Thinking, Natural Sciences
Grade Mode: Normal Grading Mode

GEO 110 Basic GIS **1 Credit hour**
Introduction to GIS concepts including GIS components, spatial and tabular data, database elements, data formats, and map design; hands-on experience with a GIS.
Attributes: Digital Humanities
Grade Mode: Normal Grading Mode

GEO 111 Air Photos & Satellite Imagery **1 Credit hour**
Introduction to photogrammetry and remote sensing thourgh the hands-on investigation of aerial photographs and satellite imagery using the latest technology.
Attributes: Digital Humanities
Grade Mode: Normal Grading Mode

GEO 112 Smartphone GPS **1 Credit hour**
Principles of Global Navigation Satellite Systems (GNSS); using your smartphone for Global Positioning Systems (GPS)/GNSS orientation, and data collection.
Attributes: Digital Humanities
Grade Mode: Normal Grading Mode

GEO 113 Web GIS **1 Credit hour**
Students learn to build web maps, share GIS data on the internet, and create web GIS applications.
Attributes: Digital Humanities
Grade Mode: Normal Grading Mode

GEO 203 Economic Geography (CT) **3 Credit hours**
A systematic examination of world economic geography with a focus on population, agriculture, transportation, land use, urbanization, industry, energy, and the environment. A systematic examination of world economic geography with a focus on population, agriculture, transportation, land use, urbanization, industry, energy, and the environment.
Attributes: Critical Thinking, International, Core II Social Sciences
Grade Mode: Normal Grading Mode

GEO 206 Geography West Virginia **3 Credit hours**
A survey of the geography of West Virginia including landforms, climate, settlement patterns, population, economics, resources, politics, and environmental changes.
Attributes: American Institutions, Core II Social Sciences
Grade Mode: Normal Grading Mode

GEO 207 Biblical Geography **3 Credit hours**
Students explore the physical and human geography of ancient Palestine and assess how geography informs our understanding of people, events, and places described by Jewish and Christian scriptures.
Attributes: Core II Humanities
Grade Mode: Normal Grading Mode

GEO 222 Global Environment Issues (CT) **3 Credit hours**
Environmental issues have great emotional, political, and economic significance. The dynamics of global environmental problems, their complex interactions, and effects on potential stakeholders will be examined at the international scale.
Attributes: Critical Thinking, International, Core II Social Sciences
Grade Mode: Normal Grading Mode

GEO 230 Intro to Meteorology (CT) **4 Credit hours**
Introduction to the composition of the atmosphere and weather phenomena, including thunderstorms, tornadoes, and hurricanes. Introduction to the composition of the atmosphere and weather phenomena, including thunderstorms, tornadoes, and hurricanes.
Attributes: Critical Thinking, Core II Natural Sciences
Grade Mode: Normal Grading Mode

GEO 280 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

GEO 281 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

GEO 282 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

GEO 283 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

GEO 300 Methods in Geography **3 Credit hours**
Provides an introduction to research methods in geography. Topics addressed include: data sources; sampling; data collection, storage, and management; descriptive measures and data visualization techniques; qualitative and quantitative analysis.
Pre-req: STA 225 with a minimum grade of D or STA 150 with a minimum grade of D or STA 150B with a minimum grade of D or MGT 218 with a minimum grade of D or PSY 223 with a minimum grade of D or SOC 345 with a minimum grade of D or GEO 440 with a minimum grade of D.
Grade Mode: Normal Grading Mode

GEO 305 Geog of USA & Canada **3 Credit hours**
Survey of physical, historical, population, economic, political, cultural, and regional geographies of Canada and the United States, including an analysis of the multi-cultural nature of the societies.
Attributes: American Institutions, Multicultural
Grade Mode: Normal Grading Mode

GEO 317 World Regional Geography **3 Credit hours**
World regions examined using a synthesis of physical and human geographical themes including environment, culture, landscape, climate, landforms, globalization, population patterns, urbanization, economies, and political geography.
Attributes: International
Grade Mode: Normal Grading Mode

GEO 350 Severe Storms and Natl Hzrds **4 Credit hours**
Basics of earth and atmospheric hazards including flooding, earthquakes, tsunamis, hurricanes, tornadoes, and volcanic eruptions, and how to mitigate the impacts. Basics of earth and atmospheric hazards including flooding, earthquakes, tsunamis, hurricanes, tornadoes, and volcanic eruptions, and how to mitigate the impacts.
Grade Mode: Normal Grading Mode

GEO 355 Aviation Weather **3 Credit hours**
A study of atmospheric conditions on aeronautical operations. Topics include atmospheric properties, aviation hazards including thunderstorms, wind shear, turbulence, and icing, and weather flight resources.
Pre-req: GEO 230 with a minimum grade of D.
Grade Mode: Normal Grading Mode

GEO 402 Geography of Appalachia **3 Credit hours**
A study of the geography of Appalachia, including landforms, climate, settlement patterns, population, economics, resources, politics, and environmental changes.
Attributes: American Institutions
Grade Mode: Normal Grading Mode

GEO 404 Geography of Europe **3 Credit hours**
An examination of the geography of Europe focusing on contemporary issues, including climate, culture, economics, environmental change, everyday life, international relations landforms, language, politics, population, religion, and urbanization. An examination of the geography of Europe focusing on contemporary issues, including climate, culture, economics, environmental change, everyday life, international relations landforms, language, politics, population, religion, and urbanization.
Attributes: International
Grade Mode: Normal Grading Mode

GEO 405 Political Geography **3 Credit hours**
A systematic and regional survey of world political problems and international relations stressing current geopolitical conflicts. An examination of contemporary patterns, processes, and problems of political geography in global perspective, including globalization, colonialism, imperialism, geopolitics, nationalism, diplomacy, international borders, governance, political representation, and future projections
Attributes: International
Grade Mode: Normal Grading Mode

GEO 406 Population Geography **3 Credit hours**
An examination of contemporary patterns, processes, and problems of population geography in global perspective, including fertility, mortality, demographic change, migration, malnutrition, urbanization, natural resource sustainability, and future projections. An examination of contemporary patterns, processes, and problems of population geography in global perspective, including fertility, mortality, demographic change, migration, malnutrition, urbanization, natural resource sustainability, and future projections.
Attributes: International
Grade Mode: Normal Grading Mode

GEO 408 Geog of South & Middle America **3 Credit hours**
A study of settlement, transportation, manufacturing, agriculture, geopolitics, and natural resources of South and Middle American countries. Regional study of relation of man's activities to natural environment.
Attributes: International
Grade Mode: Normal Grading Mode

GEO 410 Urban Geography **3 Credit hours**
Study of the evolution, morphology and land use, functions, and problems of urban areas, with emphasis on governance, planning, and the social and environmental impacts of urbanization.
Attributes: American Institutions
Grade Mode: Normal Grading Mode

GEO 411 Medical Geography **3 Credit hours**
An examination of contemporary issues and problems in health and medical geography, including the spatial aspects of global health, health care policy, and disease origins, diffusion, and ecology.
Grade Mode: Normal Grading Mode

GEO 418 Geography For Educators **3 Credit hours**
A study of geographic concepts, methods, and technologies essential for effective teaching of geographic content for K-12 social studies teachers and college educators.
Grade Mode: Normal Grading Mode

GEO 422 Environmental Geography **3 Credit hours**
Attributes: International
Grade Mode: Normal Grading Mode

GEO 423 Cartography & GIS **3 Credit hours**
This course is an introduction to cartography and is the cornerstone of Geographic Information Science. In this class you will learn basic map design, map interpretation and appreciation. We will explore the nature of spatial data, and learn what maps can and cannot represent. We will study maps as a data source for Geographic Information Systems, and as a graphic tool for scientific visualizations.
Grade Mode: Normal Grading Mode

GEO 424 Transportation Geography **3 Credit hours**
A geographic analysis of transportation and its spatial organization. Concepts, models, and analytical methods related to traffic demand, network configuration, and allocation of transport facilities are covered.
Grade Mode: Normal Grading Mode

GEO 425 Climatology **4 Credit hours**
A study of elements of weather and climate, methods of climatic classification, and the distribution and characteristics of world climate regions. A study of elements of weather and climate, methods of climatic classification, and the distribution and characteristics of world climate regions.
Grade Mode: Normal Grading Mode

GEO 426 Principles of GIS **4 Credit hours**
Introduction to Geographic Information Systems (GIS) principles, techniques, and applications for the social and natural sciences with emphasis on foundational geographic principles in a lecture/lab format.
Attributes: Digital Humanities
Grade Mode: Normal Grading Mode

GEO 427 Principles of GIS II **4 Credit hours**
Students apply GIS principles and techniques to geoprocess and manipulate geographic data, including topics such as geodatabase management, python scripting, model building, web mapping and data services, and spatial analysis.
Pre-req: GEO 423 with a minimum grade of D or GEO 426 with a minimum grade of D or GEO 429 with a minimum grade of D or GEO 430 with a minimum grade of D or NRRM 423 with a minimum grade of D or NRRM 433 with a minimum grade of D.
Grade Mode: Normal Grading Mode

GEO 429 Location Analysis and GIS **4 Credit hours**
Concepts, models, and methods of geographic location analysis of natural resource extraction, manufacturing, services, retail and market area analytics, and logistics using GIS.
Pre-req: GEO 423 with a minimum grade of D or GEO 426 with a minimum grade of D or GEO 427 with a minimum grade of D or GEO 430 with a minimum grade of D or NRRM 423 with a minimum grade of D or NRRM 433 with a minimum grade of D.
Grade Mode: Normal Grading Mode

GEO 430 Environmental Raster GIS **4 Credit hours**
Environmental Applications of GIS raster analysis, including local, neighborhood, and zonal operations, terrain analysis, distance modeling, and surface interpolation, data collection and input, and advanced spatial analysis using GIS.
Pre-req: GEO 426 or GEO 429 or IST 423.
Grade Mode: Normal Grading Mode

GEO 431 Remote Sensing & Photogram **4 Credit hours**
Scientific study of the earth using images and data captured using satellite- or aircraft-borne sensors, with emphasis on issues of acquisition, photogrammetric interpretation, spatial analysis and application.
Pre-req: GEO 426 with a minimum grade of D or GEO 429 with a minimum grade of D or GEO 430 with a minimum grade of D or IST 423 with a minimum grade of D.
Grade Mode: Normal Grading Mode

GEO 432 Enterprise GIS **3 Credit hours**
Principles and techniques for planning, implementing, and managing Geographic Information Systems technologies in a firm or agency.
Pre-req: GEO 426 or GEO 429 or GEO 430 or GEO 431 or IST 423.
Grade Mode: Normal Grading Mode

GEO 433 GPS & Mobile Geospatial Tech **3 Credit hours**
An analysis of the design and deployment of Global Navigation Satellite Systems such as GPS (Global Positioning System) and their application to mobile map services.
Pre-req: GEO 426 or GEO 429 or GEO 430 or GEO 431 or IST 423.
Grade Mode: Normal Grading Mode

GEO 434 Floods Hazards and GIS **3 Credit hours**
Application of principles of flood hazards preparation, disaster management, and mitigation using Geographic Information Systems (GIS).
Grade Mode: Normal Grading Mode

GEO 440 Spatial Statistics and GIS **4 Credit hours**
Statistical methods applied to problem solving in geography and using GIS for display and analysis. Primary focus on descriptive and inferential spatial statistics, mapping, and spatial analysis of data.
Grade Mode: Normal Grading Mode

GEO 450 Extreme Weather **4 Credit hours**
Basics of extreme weather phenomena including hurricanes, tornadoes, floods, droughts, blizzards, and how to mitigate the impacts.
Grade Mode: Normal Grading Mode

GEO 454 Drones: Remote Sensing & GIS **3 Credit hours**
Learn FAA rules and safety procedures; prepare for Remote Pilot licensing exam; operate drones to collect remote sensing data; process imagery for analysis; integrate sUAS imagery with existing GIS data.
Grade Mode: Normal Grading Mode

GEO 460 Weather Analysis **4 Credit hours**
Introduction to reading weather maps and meteorological analysis techniques including satellite and radar image interpretation and numerical weather prediction.
Grade Mode: Normal Grading Mode

GEO 480 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

GEO 481 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

GEO 482 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

GEO 483 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

GEO 485 Independent Study **1-4 Credit hours**
Attributes: No Textbook Required
Grade Mode: Normal Grading Mode

GEO 486 Independent Study **1-4 Credit hours**
Attributes: No Textbook Required
Grade Mode: Normal Grading Mode

GEO 487 Independent Study **1-4 Credit hours**
Grade Mode: Normal Grading Mode

GEO 488 Independent Study **1-4 Credit hours**
Grade Mode: Normal Grading Mode

GEO 490 Internship **1-6 Credit hours**
Cooperative learning experience with regional employer/government agency.
Attributes: No Textbook Required
Grade Mode: Credit/No Credit Grade Only

GEO 498 Senior Capstone **2 Credit hours**
This senior capstone course combines research methods, data collection, and analysis to produce original research on questions and problems in geography. Par I: Pilot Project.
Pre-req: GEO 300 with a minimum grade of D and (GEO 423 with a minimum grade of D or GEO 426 with a minimum grade of D).
Attributes: Capstone Course
Grade Mode: Normal Grading Mode

GEO 499 Senior Capstone II **1-3 Credit hours**
This senior capstone course combines research methods, data collection, and analysis to produce original research on questions and problems in geography. Part II.
Pre-req: GEO 426 with a minimum grade of D and (MTH 225 with a minimum grade of D or GEO 440 with a minimum grade of D or MGT 218 with a minimum grade of D or PSY 223 with a minimum grade of D or SOC 345 with a minimum grade of D or ANT 301 with a minimum grade of D or EDF 417 with a minimum grade of D).
Attributes: American Institutions, Capstone Course
Grade Mode: Normal Grading Mode

Geology (GLY)

- General Education Course

GLY 100 Geologic Hazards & Resources **3 Credit hours**
Introductory course for non-science majors focusing on (i) Earth Hazards; and mitigation, (ii) Climate change and its impacts; and (iii) Earth and Energy resources, their origin, development, and environmental impacts.
Attributes: Natural Sciences, Core II Natural Sciences
Grade Mode: Normal Grading Mode

GLY 150 Intro Oceanography **3 Credit hours**
Origin of the seas and ocean basins. Processes of marine sedimentation and seawater chemistry. Dynamics of air/sea interaction, circulation, waves and tides. Description of coastal and other marine environments. Origin of the seas and ocean basins. Processes of marine sedimentation and seawater chemistry. Dynamics of air/sea interaction, circulation, waves and tides. Description of coastal and other marine environments.
Attributes: Natural Sciences, Core II Natural Sciences
Grade Mode: Normal Grading Mode

GLY 150L Intro Oceanography Lab **1 Credit hour**
A complementary laboratory to Introductory Oceanography, GLY 150. A series of exercises relating to bathymetry, accoustic profiling, marine charts, properties of seawater, sea floor sediments, currents, waves and tides. A complementary laboratory to Introductory Oceanography, GLY 150. A series of exercises relating to bathymetry, accoustic profiling, marine charts, properties of seawater, sea floor sediments, currents, waves and tides.
Co-req: GLY 150
Attributes: Natural Sciences, Core II Natural Sciences
Grade Mode: Normal Grading Mode

GLY 170 Geology of the National Parks **3 Credit hours**
An introduction to U.S. Parks and Monuments including earth materials, plate tectonic setting, formative geologic processes, and natural history; brief overview of history and purpose of the National Park Service.
Grade Mode: Normal Grading Mode

GLY 200 The Dynamic Earth **3 Credit hours**
An elementary but comprehensive physical geology course that deals with the earth's origin, composition, structures, tectonics and processes. Intended primarily for, but not limited to, the science major. 3 lec. An elementary but comprehensive physical geology course that deals with the earth's origin, composition, structures, tectonics and processes. Intended primarily for, but not limited to, the science major. 3 lec.
Attributes: Natural Sciences, Core II Natural Sciences
Grade Mode: Normal Grading Mode

GLY 201 The Earth Through Time **3 Credit hours**
Introduction to 1) the principles used to interpret past physical, biologic, and chemical events archived in rock record, and 2)the history and development of the earth's lithosphere, biosphere, hydrosphere, and atmosphere.
Attributes: Natural Sciences, Core II Natural Sciences
Grade Mode: Normal Grading Mode

GLY 210L Earth Materials Lab **1 Credit hour**
An introduction to laboratory methods and materials as applied to the identification, classification, recovery and uses of earth resources. 2 lab. An introduction to laboratory methods and materials as applied to the identification, classification, recovery and uses of earth resources. 2 lab.
Attributes: Natural Sciences, Core II Natural Sciences
Grade Mode: Normal Grading Mode

GLY 211L Earth Through Time Lab **1 Credit hour**
Reconstruction of events in earth history based on physical characteristics and arrangement of rock layers and their fossil contens. 2 hr lab (PR: 210L; CR: GLY 201) Reconstruction of events in earth history based on physical characteristics and arrangement of rock layers and their fossil contens. 2 hr lab (PR: 210L; CR: GLY 201)
Attributes: No Textbook Required, Natural Sciences, Core II Natural Sciences
Grade Mode: Normal Grading Mode

GLY 212 Geologic Field Methods **3 Credit hours**
Introduction to geologic map interpretation, qualitative and quantitative methods of geologic map and cross-section preparation, and basic ArcGIS mapping methods. 2 lec 1 lab. (Field Work).
Pre-req: (GLY 200 with a minimum grade of D or GLY 201 with a minimum grade of D) and (GLY 210L with a minimum grade of D or GLY 211L with a minimum grade of D).
Attributes: Natural Sciences
Grade Mode: Normal Grading Mode

GLY 280 Special Topics **1-4 Credit hours**
Attributes: Natural Sciences
Grade Mode: Normal Grading Mode

GLY 281 Special Topics **1-4 Credit hours**
Attributes: Natural Sciences
Grade Mode: Normal Grading Mode

GLY 282 Special Topics **1-4 Credit hours**
Attributes: Natural Sciences
Grade Mode: Normal Grading Mode

GLY 283 Special Topics **1-4 Credit hours**
Attributes: Natural Sciences
Grade Mode: Normal Grading Mode

GLY 313 Structural Geology **4 Credit hours**
Analysis, classification and origin of depositional and deformational structures common to all classes of rocks; their structural history, relationships, and stresses which caused them. 3 lec-2 lab. Analysis, classification and origin of depositional and deformational structures common to all classes of rocks; their structural history, relationships, and stresses which caused them. 3 lec-2 lab.
Pre-req: GLY 110 or GLY 200.
Attributes: Natural Sciences
Grade Mode: Normal Grading Mode

GLY 314 Mineralogy **4 Credit hours**
Identification, classification, orgin, occurrences, and economic uses of minerals and their crystallographic forms. 3 lec-2 lab. Identification, classification, orgin, occurrences, and economic uses of minerals and their crystallographic forms. 3 lec-2 lab.
Pre-req: GLY 200 with a minimum grade of D and CHM 211 with a minimum grade of D.
Attributes: Natural Sciences
Grade Mode: Normal Grading Mode

GLY 320L Geology Lab Techniques **2 Credit hours**
Techniques of collection, preparation and analysis of mineral, rock and water samples, and the use of different instruments for obtaining quality data. Will also cover tools used for data interpretation. Techniques of collection, preparation and analysis of mineral, rock and water samples, and the use of different instruments for obtaining quality data. Will also cover tools used for data interpretation.
Pre-req: GLY 200 (may be taken concurrently) with a minimum grade of D and GLY 210L (may be taken concurrently) with a minimum grade of D.
Concurrent PR: GLY 200 and GLY 210L
Grade Mode: Normal Grading Mode

GLY 325 Stratigraphy & Sediment **4 Credit hours**
Formation, organization, sequence, and correlation of sedimentary rocks; study of the orgin, transportation and deposition of rock-forming sediments. 3 lec-2 lab. Formation, organization, sequence, and correlation of sedimentary rocks; study of the orgin, transportation and deposition of rock-forming sediments. 3 lec-2 lab.
Pre-req: GLY 201 with a minimum grade of D and GLY 211L with a minimum grade of D.
Attributes: Natural Sciences
Grade Mode: Normal Grading Mode

GLY 330 Tectonics **3 Credit hours**
Overview of tectonic processes at plate boundaries, orogenic systems, formation of continents and ocean basins, and tectonic analytical methods.
Pre-req: GLY 200 and GLY 201 and GLY 210L and GLY 211L.
Grade Mode: Normal Grading Mode

GLY 410 Big Bend Field Excursion **2 Credit hours**
Field trip to Big Bend National Park, Texas to study the structure, stratigraphy, igneous geology, metamorphic geology, paleontology and natural history of this national park. Field trip to Big Bend National Park, Texas to study the structure, stratigraphy, igneous geology, metamorphic geology, paleontology and natural history of this national park.
Attributes: Natural Sciences
Grade Mode: Normal Grading Mode

GLY 418 Invertebrate Paleontology **4 Credit hours**
Taxonomy, morphology, and paleoecology of body and trace fossils representing the major invertebrate phyla; analysis and interpretation of faunal assemblages; evolution and extinction of species. (PR: GLY 201) Taxonomy, morphology, and paleoecology of body and trace fossils representing the major invertebrate phyla; analysis and interpretation of faunal assemblages; evolution and extinction of species. (PR: GLY 201)
Pre-req: GLY 201 with a minimum grade of D and GLY 211L with a minimum grade of D.
Attributes: Natural Sciences
Grade Mode: Normal Grading Mode

GLY 420 Principles of Geochemistry **3 Credit hours**
Application of chemical principles to geology. Topics include cosmochemistry; distribution of elements in minerals and rocks; aqueous solutions and water-rock interaction; radiometric age dating and stable isotope geology.
Pre-req: CHM 211 with a minimum grade of D and GLY 200 with a minimum grade of D.
Grade Mode: Normal Grading Mode

GLY 421 Igneous& Metamorphic Petrology **4 Credit hours**
Indentification and classification of igneous, and metamorphic rocks, their origin and occurrence; their geologic and economic importance. 3 lec-2 lab. Indentification and classification of igneous, and metamorphic rocks, their origin and occurrence; their geologic and economic importance. 3 lec-2 lab.
Pre-req: GLY 200 with a minimum grade of D and GLY 314 with a minimum grade of D.
Attributes: Natural Sciences
Grade Mode: Normal Grading Mode

GLY 423 Sedimentary Petrology **4 Credit hours**
Microscopic description of minerals, textures, and fossils in sedimentary rocks, their classification, and interpretation of source area, depositional environment and post-depositional history. 3 lec-2 lab.
Pre-req: GLY 201.
Attributes: Natural Sciences
Grade Mode: Normal Grading Mode

GLY 426 Geophysics **3 Credit hours**
Development of seismic, gravity, magnetism, electrical and thermal methods of studying the structure and dynamics of the earth. 3-lec
Pre-req: GLY 200 with a minimum grade of D and GLY 210L with a minimum grade of D and (PHY 201 with a minimum grade of D or PHY 211 with a minimum grade of D) and MTH 229 with a minimum grade of D.
Attributes: Natural Sciences
Grade Mode: Normal Grading Mode

GLY 427 Fossil Fuels **4 Credit hours**
Origin and distribution of coal, oil and gas, and methods of exploration and reserve evaluaton. 3 lec-2 lab. Origin and distribution of coal, oil and gas, and methods of exploration and reserve evaluaton. 3 lec-2 lab.
Pre-req: GLY 200.
Attributes: Natural Sciences
Grade Mode: Normal Grading Mode

GLY 451 Principles Geomorphology **4 Credit hours**
Principles of identification and analysis of the world's surficial features in terms of stratigraphy, structure, processes, tectonics and time. 3 lec. 2 lab. Principles of identification and analysis of the world's surficial features in terms of stratigraphy, structure, processes, tectonics and time. 3 lec. - 2 lab.
Pre-req: GLY 200 and GLY 210L.
Attributes: Natural Sciences
Grade Mode: Normal Grading Mode

GLY 455 Hydrogeology **3 Credit hours**
The properties of water, the hydrologic cycle with emphasis on surface and groundwater processes, the uses, needs and problems associated with water resources. 3 lec. The properties of water, the hydrologic cycle with emphasis on surface and groundwater processes, the uses, needs and problems associated with water resources. 3 lec.
Pre-req: GLY 200 with a minimum grade of D and (MTH 132 with a minimum grade of D or MTH 229 with a minimum grade of D or MTH 229H with a minimum grade of D).
Attributes: Natural Sciences
Grade Mode: Normal Grading Mode

GLY 455L Hydrogeology Laboratory **1 Credit hour**
A two-hour laboratory of practical hydrogeologic problem solving. For non-majors, elective. A two-hour laboratory of practical hydrogeologic problem solving. For non-majors, elective.
Pre-req: GLY 455 (may be taken concurrently) with a minimum grade of D.
Concurrent PR: GLY 455
Attributes: Natural Sciences
Grade Mode: Normal Grading Mode

GLY 456 Environmental Geology **4 Credit hours**
Consideration of risks posed by natural geo-hazards and from physical/chemical contamination of geologic media. (PR: GLY 200, GLY 210L or equivalent; Recommended: GLY 451) Consideration of risks posed by natural geo-hazards and from physical/chemical contamination of geologic media. (PR: GLY 200, GLY 210L or equivalent; Recommended: GLY 451)
Pre-req: GLY 200 with a minimum grade of D and GLY 210L with a minimum grade of D.
Attributes: Natural Sciences
Grade Mode: Normal Grading Mode

GLY 457 Engineering Geology **4 Credit hours**
Consideration of geotechnical problems faced by geologists and engineers. Major topics include mechanics and classification of soil and rock, and geotechnical aspects of groundwater.
Pre-req: GLY 200 with a minimum grade of D and GLY 210L with a minimum grade of D and (MTH 132 with a minimum grade of D or MTH 229 with a minimum grade of D).
Attributes: Natural Sciences
Grade Mode: Normal Grading Mode

GLY 480 Special Topics **1-4 Credit hours**
Attributes: Natural Sciences
Grade Mode: Normal Grading Mode

GLY 481 Special Topics **1-4 Credit hours**
Attributes: Natural Sciences
Grade Mode: Normal Grading Mode

GLY 482 Special Topics **1-4 Credit hours**
Attributes: Natural Sciences
Grade Mode: Normal Grading Mode

GLY 483 Special Topics **1-4 Credit hours**
Attributes: Natural Sciences
Grade Mode: Normal Grading Mode

GLY 485 Independent Study **1-4 Credit hours**
Attributes: No Textbook Required, Natural Sciences
Grade Mode: Normal Grading Mode

GLY 486 Independent Study **1-4 Credit hours**
Attributes: Natural Sciences
Grade Mode: Normal Grading Mode

GLY 487 Independent Study **1-4 Credit hours**
Attributes: Natural Sciences
Grade Mode: Normal Grading Mode

GLY 488 Independent Study **1-4 Credit hours**
Attributes: Natural Sciences
Grade Mode: Normal Grading Mode

GLY 491 Capstone Experience **2-4 Credit hours**
An independent study involving a research project or internship. Must be approved by Geology faculty. (PR: 20 hours of Geology coursework).
Attributes: Capstone Course, Natural Sciences
Grade Mode: Normal Grading Mode

GLY 492 Capstone Experience **2-4 Credit hours**
An independent study involving a research project or internship. Must be approved by Geology faculty. (PR: 20 hours of Geology coursework).
Attributes: Capstone Course, Natural Sciences
Grade Mode: Normal Grading Mode

German (GER)

- General Education Course

GER 101 Elementary German I **3 Credit hours**
Pronunciation, conversation, reading, and composition with an emphasis on aural/oral development. Pronunciation, conversation, reading, and composition with an emphasis on aural/oral development.
Grade Mode: Normal Grading Mode

GER 102 Elementary German II **3 Credit hours**
Pronunciation, conversation, reading, and composition with an emphasis on aural/oral development. Pronunciation, conversation, reading, and composition with an emphasis on aural/oral development.
Pre-req: GER 101 with a minimum grade of C.
Grade Mode: Normal Grading Mode

GER 203 Intermediate German I **3 Credit hours**
Continuation on the intermediate level of the basic language skills: pronunciation, conversation, reading, and composition with an emphasis on aural/oral development. (PR: GER 102 or 3 units of high school German) Continuation on the intermediate level of the basic language skills: pronunciation, conversation, reading, and composition with an emphasis on aural/oral development. (PR: GER 102 or 3 units of high school German)
Pre-req: GER 102 with a minimum grade of C.
Grade Mode: Normal Grading Mode

GER 204 Intermediate German II **3 Credit hours**
Continuation on the intermediate level of the basic language skills: pronunciation, conversation, reading and composition with an emphasis on aural/oral development. (PR: GER 203 or 4 units of high school German) Continuation on the intermediate level of the basic language skills: pronunciation, conversation, reading and composition with an emphasis on aural/oral development. (PR: GER 203 or 4 units of high school German)
Pre-req: GER 203 with a minimum grade of C.
Attributes: Foreign Language
Grade Mode: Normal Grading Mode

GER 240 German Society & Life **3 Credit hours**
Study of selected topics relating to culture and life in the German speaking countries. Lectures, readings, and discussions in English, No prerequisite. Study of selected topics relating to culture and life in the German speaking countries. Lectures, readings, and dis- cussions in English, No prerequisite.
Attributes: Core II Humanities, International
Grade Mode: Normal Grading Mode

GER 280 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

GER 281 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

GER 315 Advanced Grammar, Conv, Comp **3 Credit hours**
Study of idioms, grammatical structure, and syntax through conversation and composition.
Pre-req: GER 204.
Grade Mode: Normal Grading Mode

GER 316 Advanced Grammar & Conv & Comp **3 Credit hours**
Study of idioms, grammatical structure, and syntax through conversation and composition.
Pre-req: GER 204.
Grade Mode: Normal Grading Mode

GER 425 Grimm's Fairy Tales **3 Credit hours**
Taught in English this course will focus on many of the Brothers Grimm's collection of 279 fairy tales, augmented by additional readings and film showings.
Attributes: Literature
Grade Mode: Normal Grading Mode

GER 480 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

GER 481 Special Topics **1-4 Credit hours**
Pre-req: GER 204.
Grade Mode: Normal Grading Mode

GER 485 Independent Study **1-4 Credit hours**
Pre-req: GER 204.
Grade Mode: Normal Grading Mode

GER 486 Independent Study **1-4 Credit hours**
Pre-req: GER 204.
Grade Mode: Normal Grading Mode

Greek (GRK)

- General Education Course

GRK 150 Intro Anc Greek (Consortium) **4 Credit hours**
Introduction to the language of Ancient Greece. Part 1 of a three course grammar sequence. (Taught through MU/OU Consortium delivery)
Grade Mode: Normal Grading Mode

GRK 151 Intro Anc Greek 2 **4 Credit hours**
Introduction to the language of Ancient Greece. Part two of a three course grammar sequence. (Taught through MU/OU Consortium Delivery)
Pre-req: GRK 150 with a minimum grade of D.
Grade Mode: Normal Grading Mode

GRK 201 Ancient Greek First Year **3 Credit hours**
Grade Mode: Normal Grading Mode

GRK 202 Ancient Greek First Year **3 Credit hours**
Pre-req: GRK 201.
Grade Mode: Normal Grading Mode

GRK 250 Intro Anc Greek 3 **3 Credit hours**
Introduction to the language of Ancient Greece. Part three of a three course grammar sequence. (Taught through MU/OU Consortium Delivery)
Pre-req: GRK 151 with a minimum grade of D.
Grade Mode: Normal Grading Mode

GRK 251 Intermed Greek 1 **3 Credit hours**
Intermediate Ancient Greek familiarizes you with translating continuous original texts from the ancient world. (Taught through MU/OU Consortium Delivery)
Pre-req: GRK 250 with a minimum grade of D.
Grade Mode: Normal Grading Mode

GRK 301 Anc Intermed Greek **3 Credit hours**
Varied readings including selections form Homer's Iliad, Dialogues of Plato and the New Testament. Varied readings including selections form Homer's Iliad, Dialogues of Plato and the New Testament.
Pre-req: GRK 202.
Grade Mode: Normal Grading Mode

GRK 302 Anc Intermed Greek **3 Credit hours**
Pre-req: GRK 301.
Attributes: Foreign Language
Grade Mode: Normal Grading Mode

GRK 350 Intermed Greek 2 **3 Credit hours**
Intermediate Ancient Greek familiarizes you with translating continuous original texts from the ancient world. (Taught through MU/OU Consortium Delivery)
Pre-req: GRK 251 with a minimum grade of D.
Grade Mode: Normal Grading Mode

GRK 480 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

GRK 485 Independent Study **1-4 Credit hours**
Pre-req: GRK 302.
Grade Mode: Normal Grading Mode

GRK 486 Independent Study **1-4 Credit hours**
Pre-req: GRK 302.
Grade Mode: Normal Grading Mode

GRK 487 Independent Study **1-4 Credit hours**
Pre-req: GRK 302.
Grade Mode: Normal Grading Mode

GRK 488 Independent Study **1-4 Credit hours**
Pre-req: GRK 302.
Grade Mode: Normal Grading Mode

Health Education (HE)

- General Education Course

HE 122 First Aid Child & Infants **1 Credit hour**
First aid and CPR for children and infants related to the home, school, and playground. First aid and CPR for children and infants related to the home, school, and playground.
Grade Mode: Normal Grading Mode

HE 430 Health Iss in PE and Ath **3 Credit hours**
Grade Mode: Normal Grading Mode

HE 485 Independent Study **1-4 Credit hours**
Grade Mode: Normal Grading Mode

Health Professions (HP)

- General Education Course

HP 110 Intro to the Health Profession **3 Credit hours**
This course is designed to provide an overview of the health care system and health professions taught within the MU campus and throughout the state.
Grade Mode: Normal Grading Mode

HP 210 Health Sciences Seminar **3 Credit hours**
This course is designed to bring outside non-clinical speakers to discuss professionalism in health care. Students analyze career opportunities and establish non-clinical career expectations.
Attributes: No Textbook Required
Grade Mode: Normal Grading Mode

HP 240 Intro to Human Diseases in HS **3 Credit hours**
A clinical overview of the common human diseases at a patient and scientist level, with emphasis on bridging the communication gap between health professionals, patients, and the general public.
Grade Mode: Normal Grading Mode

HP 320 Intro to Res in Health Prof **3 Credit hours**
This course covers the basic quantitative and qualitative research techniques used in the health professions.
Pre-req: HP 210 with a minimum grade of D or HP 240 with a minimum grade of D.
Grade Mode: Normal Grading Mode

HP 420 Allied Health Sciences Admin **3 Credit hours**
In this course students will explore and apply allied health sciences principles as they related to the student's focus in the Health Sciences major.
Grade Mode: Normal Grading Mode

HP 450 BHS Senior Seminar **1 Credit hour**
Opportunity for students to explore current topics related to areas of interest.
Grade Mode: Normal Grading Mode

HP 480 Special Topics in HP **1-4 Credit hours**
Courses will be developed in special topics in Health Professions as deemed necessary by the Dean, COHP Courses will be developed in special topics in Health Professions as deemed necessary by the Dean, COHP
Grade Mode: Normal Grading Mode

HP 481 Special Topics in HP **1-4 Credit hours**
Courses will be developed in special topics in Health Professions as deemed necessary by the Dean, COHP Courses will be developed in special topics in Health Professions as deemed necessary by the Dean, COHP
Grade Mode: Normal Grading Mode

HP 482 Special Topics in HP **1-4 Credit hours**
Courses will be developed in special topics in Health Professions as deemed necessary by the Dean, COHP Courses will be developed in special topics in Health Professions as deemed necessary by the Dean, COHP
Grade Mode: Normal Grading Mode

HP 483 Special Topics in HP **1-4 Credit hours**
Courses will be developed in special topics in Health Professions as deemed necessary by the Dean, COHP Courses will be developed in special topics in Health Professions as deemed necessary by the Dean, COHP
Grade Mode: Normal Grading Mode

HP 490 Capstone **3-6 Credit hours**
This course offers an opportunity for students to demonstrate that they have achieved the goals for learning established the Bachelor of Health Sciences Program.
Attributes: Capstone Course, No Textbook Required
Grade Mode: Normal Grading Mode

Health Science (HS)

- General Education Course

HS 122 First Aid Child & Infants **1 Credit hour**
Grade Mode: Normal Grading Mode

HS 200 Comp Medical Terminology (CT) **3 Credit hours**
This course is designed to introduce students to basic medical terminology and basic pharmacology. This course is designed to introduce students to basic medical terminology and basic pharmacology.
Attributes: Critical Thinking
Grade Mode: Normal Grading Mode

HS 201 Intro Appl Anat & Physiol **3 Credit hours**
Focuses on basic anatomy and physiology as applied to physical activity. Focuses on basic anatomy and physiology as applied to physical activity.
Grade Mode: Normal Grading Mode

HS 212 Practical & Emerging Tech AT **3 Credit hours**
This course introduces students to taping, wrapping, and advanced emergency care techniques used in athletic training. (PR: Admission to the Athletic Training Program)
Grade Mode: Normal Grading Mode

HS 215 Intro to Athletic Training **3 Credit hours**
Survey and study of the basic techniques and practices of athletic training.
Pre-req: HS 200 (may be taken concurrently) with a minimum grade of D or HS 201 (may be taken concurrently) with a minimum grade of D or HS 222 (may be taken concurrently) with a minimum grade of D or BSC 227 (may be taken concurrently) with a minimum grade of D or BSC 332 (may be taken concurrently) with a minimum grade of D.
Concurrent PR: HS 200 or HS 201 or HS 222 or BSC 227 or BSC 332
Grade Mode: Normal Grading Mode

HS 220 Personal Health **3 Credit hours**
A survey course that focuses upon wellness promotion and prevention of various health problems.
Grade Mode: Normal Grading Mode

HS 221 Personal Health II **3 Credit hours**
An examination of the health content areas of mental/emotional health, substance use/abuse, and human sexuality/family life education.
Grade Mode: Normal Grading Mode

HS 222 Hlth Prov First Aid/CPR/AED **3 Credit hours**
First Aid, CPR, and AED skills for health care providers. Additional topics include musculoskeletal injuries, environmental conditions, and sudden illness.
Grade Mode: Normal Grading Mode

HS 230 Orthopedic Skills **3 Credit hours**
An intensive hands-on course for allied health majors that introduces the orthopedic assessment and testing skills needed to perform effective evaluations on the field and in the clinical setting.
Grade Mode: Normal Grading Mode

HS 235 Intro to Worksite Wellness **3 Credit hours**
An introduction to worksite wellness programming including the basic components of an effective wellness program and how to integrate wellness into corporate culture.
Grade Mode: Normal Grading Mode

HS 255 AT Clinical Exp: Level I **2 Credit hours**
To begin developing athletic training evaluation and treatment skills under the direction of a BOC certified Athletic Trainer. Requires 150 clinical hours. (CR: Admission to the Athletic Training Program)
Pre-req: HS 215.
Grade Mode: Normal Grading Mode

HS 265 Fund Video Analysis Mvmt (CT) **3 Credit hours**
Fundamental concepts and techniques for analyzing human movement during sport, exercise, and occupation. Students will develop qualitative and video-based analysis skills as used in sports science labs and rehabilitation clinics.
Attributes: Critical Thinking
Grade Mode: Normal Grading Mode

HS 280 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

HS 281 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

HS 282 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

HS 283 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

HS 321 School Health Program **3 Credit hours**
Pre-req: HS 221 or HE 221 or HS 220 or HE 220.
Grade Mode: Normal Grading Mode

HS 335 Worksite Health Assessment **3 Credit hours**
An investigation into worksite health assessment models and modes.
Pre-req: HS 235 with a minimum grade of C.
Grade Mode: Normal Grading Mode

HS 336 Org & Admin Worksite Wellness **3 Credit hours**
This is a course that investigates current trends in worksite wellness organization & administration and provides instruction of wellness and prevention interventions into corporate culture and business plans.
Pre-req: HS 235 with a minimum grade of C.
Grade Mode: Normal Grading Mode

HS 345 Worksite Wellness Prescription **3 Credit hours**
This is a course that investigates prescription of worksite wellness programming based on data collection methods and current industry Best Practices for wellness interventions.
Pre-req: HS 336 with a minimum grade of C.
Grade Mode: Normal Grading Mode

HS 346 Eval Worksite Wellness Program **3 Credit hours**
This course investigates the effectiveness of worksite wellness programming. Students will understand what components of a program should be evaluated and how to calculate return on investment for intervention.
Pre-req: HS 336 with a minimum grade of C.
Grade Mode: Normal Grading Mode

HS 360 AT Clinical Exp: Level II **2 Credit hours**
To continue developing athletic training evaulation and treatment skills under the direction of a BOC certified Athletic Trainer. Requires 150 clinical hours. (PR: HS255)
Pre-req: HS 255.
Grade Mode: Normal Grading Mode

HS 361 AT Clinical Exp: Level III **2 Credit hours**
To continue developing athletic training evaluation and treatment skills under the direction of a BOC certified Athletic Trainer and/or other qualified allied health professionals. Requires 150 clinical hours. (PR: HS360)
Pre-req: HS 360.
Grade Mode: Normal Grading Mode

HS 365 Functional Kinesiology **3 Credit hours**
Applied anatomy of the human musculature and biomechanics in relation to physical activity.
Pre-req: BSC 227 with a minimum grade of D or HS 201 with a minimum grade of D.
Grade Mode: Normal Grading Mode

HS 369 Motor Learning **3 Credit hours**
A study of the factors contributing to the acquisition, improvement and retention of gross motor skills. Stages of motor development and learning will be examined from a behavioral approach.
Grade Mode: Normal Grading Mode

HS 405 Sport Psychology **3 Credit hours**
An examination of theory, research, and application of psychological principles related to sport and exercise.
Pre-req: PSY 201 with a minimum grade of D or PSY 201H with a minimum grade of D.
Grade Mode: Normal Grading Mode

HS 410 Organ Admin in Athletic Trng **3 Credit hours**
This is a course that investigates current trends in administration and organization in the field of athletic training. This is a course that investigates current trends in administration and organization in the field of athletic training.
Pre-req: HS 215.
Grade Mode: Normal Grading Mode

HS 423 Ortho Assess Upper Extremity **4 Credit hours**
Orthopedic evaluation techniques of the thoracic and cervical spines and the upper extremities. Anatomy, injury recognition, stress and special testing, treatment protocols, and preventative measure will be examined.
Pre-req: HS 215.
Grade Mode: Normal Grading Mode

HS 424 Ortho Assess Lower Extremity **4 Credit hours**
Orthopedic evaluation techniques of the lumbar spine and the lower extremities. Anatomy, injury recognition, stress and special testing, treatment protocols, and preventative measures will be examined.
Pre-req: HS 215.
Grade Mode: Normal Grading Mode

HS 430 Health Iss in PE & Ath **3 Credit hours**
Grade Mode: Normal Grading Mode

HS 435 Biomech Programs Applications **3 Credit hours**
Students will develop computer programming skills by designing and writing code to process and analyze the biomechanical data they collect. Students will transfer the functions they write to various applications.
Pre-req: HS 365 with a minimum grade of D and PHY 203 (may be taken concurrently) with a minimum grade of D and PHY 204 (may be taken concurrently) with a minimum grade of D.
Concurrent PR: PHY 203 and PHY 204
Grade Mode: Normal Grading Mode

HS 440 Health Eval Ath Trn I **3 Credit hours**
Pre-req: HS 423.
Grade Mode: Normal Grading Mode

HS 448 Therapeutic Interventions I **4 Credit hours**
Therapeutic modality application in the initial stages of injury, and modality and therapeutic exercise selection and prescription based upon patient responses for injuries to the lower extremity and lumbar spine.
Pre-req: HS 215.
Grade Mode: Normal Grading Mode

HS 449 Therapeutic Interventions II **4 Credit hours**
Instruction of electrical stimulation modalities and therapeutic exercise rehabilitation of the upper extremity and cervical spine, including post-surgical rehabilitation. Strategies for psychosocial intervention will also be addressed. (PR: HS 448)
Pre-req: HS 448.
Grade Mode: Normal Grading Mode

HS 460 AT Clinical Exp: Level IV **2 Credit hours**
To continue developing athletic training evaluation and treatment skills under the direction of a BOC certified Athletic Trainer and/or other qualified allied health professionals. Requires 150 clinical hours. (PR: HS361)
Pre-req: HS 361.
Grade Mode: Normal Grading Mode

HS 464 Pathomechanics **3 Credit hours**
An investigation into normal and abnormal human movement patterns in sport, the workplace, and in activities of daily living. An investigation into normal and abnormal human movement patterns in sport, the workplace, and in activities of daily living.
Pre-req: HS 365 with a minimum grade of D and HS 465 with a minimum grade of D.
Grade Mode: Normal Grading Mode

HS 465 Biomechanical Analy of Mvmt **3 Credit hours**
An investigation into the science of human motion and its relationship to the envirionment in which it is performed.
Pre-req: HS 365 with a minimum grade of D and PHY 201 with a minimum grade of D and PHY 202 with a minimum grade of D.
Grade Mode: Normal Grading Mode

HS 475 Trends in Biomechanics **3 Credit hours**
Pre-req: HS 465 with a minimum grade of D and HS 365 with a minimum grade of D.
Grade Mode: Normal Grading Mode

HS 478 Research Practicum Biomechanic **3-6 Credit hours**
This course offers "hands-on" work within the biomechanics lab. The student will assist with current research. This experience that allows students to gain practical experience within a lab setting.
Pre-req: BSC 227 with a minimum grade of D.
Grade Mode: Normal Grading Mode

HS 479 Trends Ath Trng **3 Credit hours**
Pre-req: HS 361.
Grade Mode: Normal Grading Mode

HS 480 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

HS 481 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

HS 482 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

HS 483 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

HS 485 Independent Study **1-4 Credit hours**
Grade Mode: Normal Grading Mode

HS 486 Independent Study **1-4 Credit hours**
Grade Mode: Normal Grading Mode

HS 487 Independent Study **1-4 Credit hours**
Grade Mode: Normal Grading Mode

HS 488 Independent Study **1-4 Credit hours**
Grade Mode: Normal Grading Mode

HS 490 Internship **1-8 Credit hours**
Supervised clinical experience in an approved setting. Can be repeated for a total of 8hrs. Capstone experience requires 3hrs minimum in one term. (PR: program permission)
Pre-req: HS 475 with a minimum grade of D.
Attributes: Capstone Course
Grade Mode: Normal Grading Mode

HS 495 Trends in Biomechanics II **3 Credit hours**
A final investigation into normal and abnormal human movement patterns in sport, the workplace, and activities of daily living.
Pre-req: HS 475 with a minimum grade of D.
Grade Mode: Normal Grading Mode

History (HST)

- General Education Course

HST 101 Great Civs to 1300 (CT) **3 Credit hours**
Comparative study of the origin and course of major civilizations focusing on the Middle East, India, China, and the West. This class emphasizes critical thinking skills. Comparative study of the origin and course of major civilizations focusing on the Middle East, India, China, and the West. This class emphasizes critical thinking skills.
Attributes: Critical Thinking, Multicultural, Core II Social Sciences
Grade Mode: Normal Grading Mode

HST 101H Great Civs to 1300 (CT) **3 Credit hours**
Comparative study of the origin and course of major civilizations focusing on the Middle East, India, China, and the West. This honors section emphasizes critical thinking skills.
Pre-req: Admitted Honors College with a score of 1.
Attributes: Critical Thinking, Honors, Multicultural, Core II Social Sciences
Grade Mode: Normal Grading Mode

HST 102 World & West 1300-1850 (CT) **3 Credit hours**
An interdisciplinary analysis of the foundations of Western development. This class emphasizes critical thinking skills.
Attributes: Critical Thinking, Multicultural, Core II Social Sciences
Grade Mode: Normal Grading Mode

HST 102H World & West 1300-1850 (CT) **3 Credit hours**
An interdisciplinary analysis of the foundations of Western development. This class emphasizes critical thinking skills.
Pre-req: Admitted Honors College with a score of 1.
Attributes: Critical Thinking, Honors, Multicultural, Core II Social Sciences
Grade Mode: Normal Grading Mode

HST 103 The World Since 1850 (CT) **3 Credit hours**
Major world developments and trends from the middle of the 19th century to the present and their implications for the future. This class emphasizes critical thinking skills. Major world developments and trends from the middle of the 19th century to the present and their implications for the future. This class emphasizes critical thinking skills.
Attributes: Critical Thinking, International, Core II Social Sciences
Grade Mode: Normal Grading Mode

HST 103H World Since 1850 Honors (CT) **3 Credit hours**
Survey for superior students of world developments and trends from the 19th century to the present and their implications for the future. Survey for superior students of world developments and trends from the 19th century to the present and their implications for the future.
Pre-req: ACT Composite with a score of 26 or SAT Verbal Before March 16 with a score of 600.
Attributes: Critical Thinking, Honors, International, Core II Social Sciences
Grade Mode: Normal Grading Mode

HST 200 History Methods Workshop **3 Credit hours**
This course is an introduction to the most fundamental methods of the discipline. Students will learn to use library resources, practice document interpretation skills, and identify and evaluate historical arguments. This course is an introduction to the most fundamental methods of the discipline. Students will learn to use library resources, practice document interpretation skills, and identify and evaluate historical arguments.
Attributes: Core II Social Sciences
Grade Mode: Normal Grading Mode

HST 208 The Developing World (CT) **3 Credit hours**
A survey of selected Third World countries focusing on imperialism, colonialism and developmental interests. This class emphasizes critical thinking skills. A survey of selected Third World countries focusing on imperialism, colonialism and developmental interests. This class emphasizes critical thinking skills.
Attributes: Critical Thinking, International, Core II Social Sciences, World History
Grade Mode: Normal Grading Mode

HST 218 Ancient Egypt **3 Credit hours**
A survey of the history of Egypt from the pre-dynastic kings through the reign of Cleopatra with emphasis on religious, cultural, social, political and economic developments.
Attributes: World History
Grade Mode: Normal Grading Mode

HST 219 Ancient History **3 Credit hours**
A survey of the ancient Near East, Greece, and Rome with emphasis on Greek and Roman civilization from Mycenaean times through the Roman Empire of the 5th century. Open to all undergraduates. A survey of the ancient Near East, Greece, and Rome with emphasis on Greek and Roman civilization from Mycenaean times through the Roman Empire of the 5th century. Open to all undergraduates.
Attributes: European History, Multicultural, Core II Social Sciences
Grade Mode: Normal Grading Mode

HST 220 European Hist Medieval **3 Credit hours**
A survey of the history of Europe from the later Roman Empire to the end of the Middle Ages with emphasis on religious, cultural, social, political and economic developments. Open to all undergraduates. A survey of the history of Europe from the later Roman Empire to the end of the Middle Ages with emphasis on religious, cultural, social, political and economic developments. Open to all undergraduates.
Attributes: European History, Core II Social Sciences
Grade Mode: Normal Grading Mode

HST 223 Rise & Fall Nazi Germany **3 Credit hours**
A study of the origins, course, and collapse of the Third Reich. Some attention will be given to pre-Nazi period. A study of the origins, course, and collapse of the Third Reich. Some attention will be given to pre-Nazi period.
Attributes: European History, International, Core II Social Sciences
Grade Mode: Normal Grading Mode

HST 230 American History to 1877 (CT) **3 Credit hours**
A general survey from the discovery in 1492 through the period of Reconstruction. This class emphasizes critical thinking skills. A general survey from the discovery in 1492 through the period of Reconstruction. This class emphasizes critical thinking skills.
Attributes: American Institutions, Critical Thinking, Multicultural, Core II Social Sciences, United States History
Grade Mode: Normal Grading Mode

HST 230H Amer Hist to 1877-Honors **3 Credit hours**
A survey of American History to 1877 for the superior student. A survey of American History to 1877 for the superior student.
Pre-req: ACT Composite with a score of 26 or SAT Verbal Before March 16 with a score of 600.
Attributes: American Institutions, Core II Social Sciences, United States History
Grade Mode: Normal Grading Mode

HST 231 American Hist From 1877 (CT) **3 Credit hours**
A general survey since Reconstruction. This class emphasizes critical thinking skills. A general survey since Reconstruction. This class emphasizes critical thinking skills.
Attributes: American Institutions, Critical Thinking, Multicultural, Core II Social Sciences, United States History
Grade Mode: Normal Grading Mode

HST 231H US Hist Since 1877-Honors **3 Credit hours**
Pre-req: ACT Composite with a score of 26 or SAT Verbal Before March 16 with a score of 600.
Attributes: American Institutions, Honors, Social Sciences, Core II Social Sciences, United States History
Grade Mode: Normal Grading Mode

HST 250 Women in US History **3 Credit hours**
A study of the public and private contributions of women in the shaping of the United States from the Colonial period to the present. A study of the public and private contributions of women in the shaping of the United States from the Colonial period to the present.
Attributes: Core II Social Sciences, United States History
Grade Mode: Normal Grading Mode

HST 260 Rise of Islam 570-1750 **3 Credit hours**
A study of the Middle Eastern region from pre-Islamic Arabia to the pinnacle of Ottoman imperial control. Emphasis is placed on cultural, social, and political developments. A study of the Middle Eastern region from pre-Islamic Arabia to the pinnacle of Ottoman imperial control. Emphasis is placed on cultural, social, and political developments.
Attributes: Core II Social Sciences, World History
Grade Mode: Normal Grading Mode

HST 265 Modern East Asia **3 Credit hours**
A survey of the history of East Asia from 17th century to present with a focus on China and Japan. A survey of the history of East Asia from 17th century to present with a focus on China and Japan.
Attributes: Core II Social Sciences, World History
Grade Mode: Normal Grading Mode

HST 280 Special Topics **1-4 Credit hours**
Selected topics not covered in regular course offerings. Selected topics not covered in regular course offerings.
Grade Mode: Normal Grading Mode

HST 281 Special Topics **1-4 Credit hours**
Selected topics not covered in regular course offerings. Selected topics not covered in regular course offerings.
Grade Mode: Normal Grading Mode

HST 282 Special Topics **1-4 Credit hours**
Selected topics not covered in regular course offerings. Selected topics not covered in regular course offerings.
Grade Mode: Normal Grading Mode

HST 283 Special Topics **1-4 Credit hours**
Selected topics not covered in regular course offerings. Selected topics not covered in regular course offerings.
Grade Mode: Normal Grading Mode

HST 301 Lat Am Discovery-Independ **3 Credit hours**
Emphasis is on conditions in Spain which influenced the development of Latin America and eventually led to the independence movement. Emphasis is on conditions in Spain which influenced the development of Latin America and eventually led to the independence movement.
Attributes: International, World History
Grade Mode: Normal Grading Mode

HST 302 Lat Am Independence-Pres **3 Credit hours**
Emphasis is on the political, economic and social institutions of Argentina, Brazil, Chile and Mexico. Emphasis is on the political, economic and social insti- tutions of Argentina, Brazil, Chile and Mexico.
Attributes: International, World History
Grade Mode: Normal Grading Mode

HST 303 American Military History **3 Credit hours**
Attributes: United States History
Grade Mode: Normal Grading Mode

HST 304 Spanish History Since 1475 **3 Credit hours**
A survey of Spain's historical development emphasizing her rise and decline as a world power, the impact of persistent internal conflict, the Franco dictatorship and the transition to democracy.
Attributes: European History, International
Grade Mode: Normal Grading Mode

HST 305 Drug Wars **3 Credit hours**
This course examines the history of the war on drugs throughout U.S. and Latin American history with an emphasis on the past century.
Attributes: World History
Grade Mode: Normal Grading Mode

HST 306 The Holocaust **3 Credit hours**
An exploration of the why and how of the Holocaust with an emphasis on Nazi Jewish policy from 1933 to 1942. An exploration of the why and how of the Holocaust with an emphasis on Nazi Jewish policy from 1933 to 1942.
Attributes: European History
Grade Mode: Normal Grading Mode

HST 307 The Global Cold War **3 Credit hours**
An international survey of World War II and the Cold War. Topics include military, political, diplomatic, social and cultural history from a global perspective.
Attributes: International, World History
Grade Mode: Normal Grading Mode

HST 308 Baseball in the Americas **3 Credit hours**
It seeks to understand the importance of baseball from a social, cultural and political standpoint. It also explores the use of baseball as a diplomatic tool.
Attributes: United States History
Grade Mode: Normal Grading Mode

HST 309 History of the Cherokee **3 Credit hours**
The course explores the history and culture of the Cherokee people from pre-contact through the 21st century.
Grade Mode: Normal Grading Mode

HST 310 History of Global Pandemics **3 Credit hours**
A study of pandemics in world history, from the Plague of Athens to COVID-19.
Attributes: American Institutions, Social Sciences
Grade Mode: Normal Grading Mode

HST 311 World War I **3 Credit hours**
This course explores the First World War. It examines the roots of the conflict, the outbreak, the course of the war, and its chaotic aftermath.
Attributes: World History
Grade Mode: Normal Grading Mode

HST 312 African-American History **3 Credit hours**
A survey of African-American History from African and West Indian origins to the present. A survey of African-American History from African and West Indian origins to the present.
Attributes: American Institutions, Multicultural, United States History
Grade Mode: Normal Grading Mode

HST 314 LGBTQ+ History of the US **3 Credit hours**
A survey of LGBTQIA+ history in the United States from the colonial period to the present. Introduction to the civilization of the area; the establishment of colonial control; liquidation of colonial rule and the readjustment required.
Attributes: United States History
Grade Mode: Normal Grading Mode

HST 323 Religion in America **3 Credit hours**
The rise and development of religion and of religious thinking in America. (Same as Religious Studies 323) The rise and development of religion and of religious thinking in America. (Same as Religious Studies 323)
Attributes: American Institutions, Social Sciences, United States History
Grade Mode: Normal Grading Mode

HST 330 Football and American Culture **3 Credit hours**
This class examines the role of football in American culture, politics, the economy and particularly its role in the elevation of college sports. A general treatment from the discovery in 1492 through the period of Reconstruction.
Attributes: United States History
Grade Mode: Normal Grading Mode

HST 333 American Colonial History **3 Credit hours**
A study of the historical development of the English colonies in America. A study of the historical development of the English colonies in America.
Attributes: American Institutions, United States History
Grade Mode: Normal Grading Mode

HST 342 American Legal History **3 Credit hours**
Historical development of American law in areas ranging from slavery and racial discrimination to civil liberties and crime and punishment. Historical development of American law in areas ranging from slavery and racial discrimination to civil liberties and crime and punishment.
Attributes: American Institutions, United States History
Grade Mode: Normal Grading Mode

HST 343 The US in the 1970s **3 Credit hours**
The economic, political, social and cultural history of the United States as it shifted from the modern 1960s to the post-modern world of the late 20th century. The economic, political, social and cultural history of the United States as it shifted from the modern 1960s to the post-modern world of the late 20th century.
Attributes: American Institutions, United States History
Grade Mode: Normal Grading Mode

HST 344 The United States in the 1980s **3 Credit hours**
Focusing on the United States in the 1980s global context, this course examines the social, cultural, political, and economic history of the late 20th century.
Attributes: United States History
Grade Mode: Normal Grading Mode

HST 347 Southern Women's History **3 Credit hours**
This course explores the lives and experiences of Southern women in the US from the colonial era to the present. This course explores the lives and experiences of Southern women in the US from the colonial era to the present.
Attributes: United States History
Grade Mode: Normal Grading Mode

HST 360 Sports and Civil Rights **3 Credit hours**
An examination of the way that sports history reflects important themes in US history such as equality, race, ethnicity, and gender.
Attributes: Multicultural
Grade Mode: Normal Grading Mode

HST 361 The Modern Middle East **3 Credit hours**
A survey of the modern Middle East with emphasis on the historical background of current controversial issues confronting the region. A survey of the modern Middle East with emphasis on the historical background of current controversial issues confronting the region.
Attributes: International, World History
Grade Mode: Normal Grading Mode

HST 362 The Crusades **3 Credit hours**
An examination of the origins, historical progression, and impact of the Crusades from both Christian and Islamic perspectives.
Attributes: Multicultural, World History
Grade Mode: Normal Grading Mode

HST 365 The Civil Rights Movement **3 Credit hours**
An exploration of 20th century movements for civil rights in American history examining race, ethnicity, social class, and gender. An exploration of 20th century movements for civil rights in American history examining race, ethnicity, social class, and gender.
Attributes: Multicultural
Grade Mode: Normal Grading Mode

HST 366 Conspiracies in US History **3 Credit hours**
This course focuses on the ways people have constructed and used conspiracy theories to explain events in U.S. political, cultural, social, and scientific arenas.
Attributes: United States History
Grade Mode: Normal Grading Mode

HST 378 Modern Asia **3 Credit hours**
A selective look at Modern Asia, focusing on Japan, China, Korea, Taiwan, Vietnam and Indonesia and American interaction with the Asian nations. No Preq. A selective look at Modern Asia, focusing on Japan, China, Korea, Taiwan, Vietnam and Indonesia and American inter- action with the Asian nations. No Preq.
Attributes: International, World History
Grade Mode: Normal Grading Mode

HST 380 Asia to 1600 **3 Credit hours**
This course will introduce students to the political, cultural, social, and intellectual environment of premodern Asia. Students will also learn to think critically about their own and other societies. This course will introduce students to the political, cultural, social, and intellectual environment of pre- modern Asia. Students will also learn to think critically about their own and other societies.
Attributes: World History
Grade Mode: Normal Grading Mode

HST 390 Food in World History **3 Credit hours**
This course examines the key changes and continuities in human food consumption patterns and practices since the Neolithic period while comparing and contrasting the foodways of major civilizations and cultures.
Attributes: World History
Grade Mode: Normal Grading Mode

HST 392 Food Markets and Modernity **3 Credit hours**
This course examines the social and cultural history of various types of urban food markets in Western Europe and the United States from the late eighteenth century to the present.
Attributes: European History
Grade Mode: Normal Grading Mode

HST 400 Senior Seminar **3 Credit hours**
A capstone course for History majors. Survey of literature and practical experience in methods and sources of history through bibliographical study and research papers. Senior standing or by permission. A capstone course for History majors. Survey of literature and practical experience in methods and sources of history through bibliographical study and research papers. Senior standing or by permission.
Pre-req: HST 101 with a minimum grade of D and HST 102 with a minimum grade of D and HST 103 with a minimum grade of D and HST 200 with a minimum grade of D and HST 230 with a minimum grade of D and HST 231 with a minimum grade of D.
Attributes: Capstone Course
Grade Mode: Normal Grading Mode

HST 401 History of Appalachia **3 Credit hours**
This course will explore the historical and historiographical development of Appalachia and the economic, political, and cultural forces that have shaped the lives and communities of mountaineers.
Grade Mode: Normal Grading Mode

HST 405 Amer Diplomacy 1900-Pres **3 Credit hours**
American foreign relations in the 20th century. The gradual retreat from isolation in the period between World War I and World War II and modern American involvement in international commitments are stressed. American foreign relations in the 20th century. The gradual retreat from isolation in the period between World War I and World War II and modern American involvement in inter- national commitments are stressed.
Attributes: American Institutions, United States History
Grade Mode: Normal Grading Mode

HST 406 Tudor & Stuart England **3 Credit hours**
A history of England under the Tudors and Stuarts, focusing primarily on demographic, social, cultural, and political developments. A history of England under the Tudors and Stuarts, focusing primarily on demographic, social, cultural, and political developments.
Attributes: European History
Grade Mode: Normal Grading Mode

HST 407 Sex and Sexuality in the US **3 Credit hours**
Examines the history of sex and sexuality in North America in the context of cultural, legal, economic, political and social history from the 16th century to present.
Attributes: United States History
Grade Mode: Normal Grading Mode

HST 408 History of LGBT Peoples **3 Credit hours**
A survey of gay, lesbian, bisexual and transgender history in the United States from the colonial period to the present. A survey of gay, lesbian, bisexual and transgender history in the United States from the colonial period to the present.
Attributes: United States History
Grade Mode: Normal Grading Mode

HST 409 American Revolution **3 Credit hours**
A varied view of the American Revolution and its impact on the American people. A varied view of the American Revolution and its impact on the American people.
Attributes: United States History
Grade Mode: Normal Grading Mode

HST 413 Hist Old South 1492-1860 **3 Credit hours**
The History of the Old South is a study of the political, economic, social, and cultural conditions in the South that led to the development of the South as a distinct section in the United States. The History of the Old South is a study of the political, economic, social, and cultural conditions in the South that led to the development of the South as a distinct section in the United States.
Attributes: United States History
Grade Mode: Normal Grading Mode

HST 414 Am Civil War & Reconstruc **3 Credit hours**
A discussion of the economic, political, social, and cultural differences leading to the Civil War, the war itself, and an analysis of the political and economic importance of Reconstruction. A discussion of the economic, political, social, and cultural differences leading to the Civil War, the war itself, and an analysis of the political and economic impor- tance of Reconstruction.
Attributes: United States History
Grade Mode: Normal Grading Mode

HST 415 Hist New South 1877-Pres **3 Credit hours**
A study of the political, economic, social, and cultural changes in the South after Reconstruction, which explains conditions in the contemporary South. A study of the political, economic, social, and cultural changes in the South after Reconstruction, which explains conditions in the contemporary South.
Attributes: United States History
Grade Mode: Normal Grading Mode

HST 417 U.S. West to 1900 **3 Credit hours**
A study of the social, cultural, political, and economic history of the US West to 1900, along with West's place in public memory.
Attributes: United States History
Grade Mode: Normal Grading Mode

HST 421 Renaissance & Reformation **3 Credit hours**
The impact of the Renaissance upon esthetic, economic, and political developments especially in the 15th and 16th centuries. The decline of Catholicism and the growth of the Protestant movement, and the influence of the two movements upon each other are stressed. The impact of the Renaissance upon esthetic, economic, and political developments especially in the 15th and 16th centuries. The decline of Catholicism and the growth of the Protestant movement, and the influence of the two movements upon each other are stressed.
Attributes: European History
Grade Mode: Normal Grading Mode

HST 424 US Science & Technology **3 Credit hours**
A study of the development and impact of science and technology in the U.S. A study of the development and impact of science and tech- nology in the U.S.
Attributes: American Institutions, United States History
Grade Mode: Normal Grading Mode

HST 425 European Hist 1814-1914 **3 Credit hours**
A century of European policital, economic, and social history and its relationship to and influence upon the history of other world areas is noted. The impact of imperialistic rivalry is emphasized. A century of European policital, economic, and social history and its relationship to and influence upon the history of other world areas is noted. The impact of imperialistic rivalry is emphasized.
Attributes: European History
Grade Mode: Normal Grading Mode

HST 426 European Hist 1914-Pres **3 Credit hours**
The impact of World War I upon Europe, the era between two world wars, the search for world peace, and World War II and its aftermath are major topics of consideration. The impact of World War I upon Europe, the era between two world wars, the search for world peace, and World War II and its aftermath are major topics of consideration.
Attributes: European History, International
Grade Mode: Normal Grading Mode

HST 427 The World at War **3 Credit hours**
This course explores the Second World War. It probes the nexus of diplomacy, politics, ideology, military strategy and operations, economics, and technological innovation that generated a truly global "total war."
Attributes: Social Sciences, World History
Grade Mode: Normal Grading Mode

HST 428 Intel & Cult Hist Mod Eur **3 Credit hours**
A survey of the main events in European thought and culture in the 19th and 20th centuries. A survey of the main events in European thought and culture in the 19th and 20th centuries.
Attributes: European History, International
Grade Mode: Normal Grading Mode

HST 430 Soviet Russia and Beyond **3 Credit hours**
Rise and fall of the Soviet Union, with emphasis on political and economic changes and Soviet frreign policy, and including an examination of the aftermath of the Soviet Union's collapse. Rise and fall of the Soviet Union, with emphasis on political and economic changes and Soviet frreign policy, and including an examination of the aftermath of the Soviet Union's collapse.
Attributes: European History, International
Grade Mode: Normal Grading Mode

HST 431 America in the Gilded Age **3 Credit hours**
A study of America's transformation from a rural, agrarian nation into an urban, industrial world power; the final destruction of the American Indian; the settlement of the West; and the farmers' revolt. A study of America's transformation from a rural, agrarian nation into an urban, industrial world power; the final destruction of the American Indian; the settlement of the West; and the farmers' revolt.
Attributes: American Institutions, United States History
Grade Mode: Normal Grading Mode

HST 433 In Our Time-Am Since 1945 **3 Credit hours**
A study of America since World War II, focusing mainly on domestic politics, foreign affairs, the civil rights movement, the rise of minorities, and the fragmentation of American society. A study of America since World War II, focusing mainly on domestic politics, foreign affairs, the civil rights move- ment, the rise of minorities, and the fragmentation of American society.
Attributes: American Institutions, United States History
Grade Mode: Normal Grading Mode

HST 434 The Vietnam War **3 Credit hours**
A study of the origin and escalation of American involvement in Vietnam, the domestic impact of the war within the United States and the collapse of the South Vietnamese government. A study of the origin and escalation of American involvement in Vietnam, the domestic impact of the war within the United States and the collapse of the South Vietnamese government.
Attributes: International, United States History
Grade Mode: Normal Grading Mode

HST 435 Modern Japan **3 Credit hours**
Begins with an overview of nineteenth century Japan and stresses the twentieth century rise of Japan to the position of world power. Begins with an overview of nineteenth century Japan and stresses the twentieth century rise of Japan to the position of world power.
Attributes: International, World History
Grade Mode: Normal Grading Mode

HST 436 Modern China **3 Credit hours**
This course will provide an overview of Chinese history in the modern era (1600 to present), including the major political, cultural, social and intellectual events and trends of this period. This course will provide an overview of Chinese history in the modern era (1600 to present), including the major political, cultural, social and intellectual events and trends of this period.
Attributes: World History
Grade Mode: Normal Grading Mode

HST 437 Seminar in Public History **3 Credit hours**
Introduction to the basic theories, ideas, and approaches to the application of historical theory or methods to projects presented to non-student publics; local and economic development applications and projects emphasized.
Attributes: United States History
Grade Mode: Normal Grading Mode

HST 438 Stuff and Things in History **3 Credit hours**
This course investigates the rich potential of"things" -- objects, landscapes, buildings, household utensils, furniture, foods, works of art, clothing, etc -- as sources of insight about American history and culture.
Attributes: World History
Grade Mode: Normal Grading Mode

HST 439 Modern China through Film **3 Credit hours**
Through a combination of films,lectures,readings,discussions and writings the course will show how China took its unique path to modernization. Through a combination of films,lectures,readings,discussions and writings the course will show how China took its unique path to modernization.
Attributes: World History
Grade Mode: Normal Grading Mode

HST 440 West Virginia History **3 Credit hours**
An interdisciplinary study of the state, its people and its institutions within the national context. An interdisciplinary study of the state, its people and its institutions within the national context.
Attributes: American Institutions, United States History
Grade Mode: Normal Grading Mode

HST 443 20th Century US Womens Hst **3 Credit hours**
This course explores the diverse lives and experiences of 20th century US women, always with an emphasis on power. This course explores the diverse lives and experiences of 20th century US women, always with an emphasis on power.
Attributes: United States History
Grade Mode: Normal Grading Mode

HST 444 US Popular Culture **3 Credit hours**
Explores the roles of popular media, art, consumer culture, and public entertainments in the development of popular culture in the United States from the 18th Century to the present.
Attributes: United States History
Grade Mode: Normal Grading Mode

HST 445 Arab-Israeli Conflict **3 Credit hours**
This course will examine the historical developments of the modern Arab-Israeli conflict, with emphasis placed on political, socioeconomic, and cultural change and the prospects for peace. This course will examine the historical developments of the modern Arab-Israeli conflict, with emphasis placed on political, socioeconomic, and cultural change and the prospects for peace.
Attributes: World History
Grade Mode: Normal Grading Mode

HST 446 Rise of Atlantic World **3 Credit hours**
This course considers the expansion of Western Europe, beginning in the early 1400's to Africa, Latin America, and other parts of the Atlantic world.
Attributes: World History
Grade Mode: Normal Grading Mode

HST 447 Film and Empire **3 Credit hours**
This course explores the nature and importance of empires through the reading of key texts and the study of selected films.
Attributes: World History
Grade Mode: Normal Grading Mode

HST 448 British History in Film **3 Credit hours**
This course explores selected aspects of British history through the study of films and key texts.
Attributes: European History
Grade Mode: Normal Grading Mode

HST 449 World War I in Film **3 Credit hours**
This course explores the origins, course, and meaning of World War I (1914-1918) through the use of selected films and readings.
Attributes: World History
Grade Mode: Normal Grading Mode

HST 451 History of Women in Sports **3 Credit hours**
Examines the importance of sport to the lives of girls and women and vice versa. The course encourages critical analysis of the place and value of sport in women's lives.
Attributes: United States History
Grade Mode: Normal Grading Mode

HST 452 History of Sports in America **3 Credit hours**
Examines the effects of sports on American society and culture. It explores the historical development of American sports and examine relationships between sports, nationalism, politics, economics, gender and American expansion.
Attributes: United States History
Grade Mode: Normal Grading Mode

HST 453 The Kennedy Assassination **3 Credit hours**
This course explores the events surrounding the assassination of President John F. Kennedy.
Grade Mode: Normal Grading Mode

HST 454 History of Ireland **3 Credit hours**
This course explores the history of Ireland from the Middle Ages to the Present.
Attributes: European History
Grade Mode: Normal Grading Mode

HST 458 Spies in History **3 Credit hours**
This course explores the role played by spies and espionage in modern history.
Attributes: World History
Grade Mode: Normal Grading Mode

HST 462 The Viking World **3 Credit hours**
By analyzing saga literature, poetry, and artifacts, students will examine the history of medieval Scandinavia.
Attributes: European History
Grade Mode: Normal Grading Mode

HST 465 Medieval Britain **3 Credit hours**
An examination of mainland Britain from the pre-Roman era through the Hundred Years War.
Attributes: European History
Grade Mode: Normal Grading Mode

HST 467 Fashion and Textile History **3 Credit hours**
Cross-cultural comparisons of textiles as primary sources for prehistoric cultures through the 1920's.
Attributes: World History
Grade Mode: Normal Grading Mode

HST 480 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

HST 481 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

HST 482 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

HST 483 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

HST 485 Independent Study **1-4 Credit hours**
Attributes: No Textbook Required
Grade Mode: Normal Grading Mode

HST 486 Independent Study **1-4 Credit hours**
Grade Mode: Normal Grading Mode

HST 487 Independent Study **1-4 Credit hours**
Grade Mode: Normal Grading Mode

HST 488 Independent Study **1-4 Credit hours**
Grade Mode: Normal Grading Mode

Honors (HON)

- General Education Course

HON 200 Second Year Seminar **3 Credit hours**
An interdisciplinary seminar for second-year honors students that uses reflective inquiry to explore the interrelation and integration of leadership, ethics and civic engagement in a diverse, interconnected and changing world.
Pre-req: Admitted Honors College with a score of 1.
Grade Mode: Normal Grading Mode

HON 280 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

HON 290 Yeager Seminar I **4 Credit hours**
Interdisciplinary seminar for first semester Yeager scholars.
Interdisciplinary seminar for first semester Yeager scholars.
Grade Mode: Normal Grading Mode

HON 291 Yeager Seminar II **4 Credit hours**
Interdisciplinary seminar for second semester Yeager scholars.
Interdisciplinary seminar for second semester Yeager scholars.
Pre-req: Admitted Honors College with a score of 1.
Grade Mode: Normal Grading Mode

HON 292 Yeager Seminar III **4 Credit hours**
Interdisciplinary seminar for third semester Yeager scholars.
Interdisciplinary seminar for third semester Yeager scholars.
Pre-req: HON 291.
Attributes: Critical Thinking
Grade Mode: Normal Grading Mode

HON 293 Yeager Seminar IV **4 Credit hours**
Interdisciplinary seminar for fourth semester Yeager scholars.
Interdisciplinary seminar for fourth semester Yeager scholars.
Pre-req: Admitted Honors College with a score of 1.
Grade Mode: Normal Grading Mode

HON 300 Honors Peer Mentoring **1-4 Credit hours**
An experiential learning course providing peer advisor and leadership training for work with college staff to provide student support services, including community building events. May be repeated for credit. (PR: Admitted Honors College 1)
Pre-req: Admitted Honors College with a score of 1.
Grade Mode: Credit/No Credit Grade Only

HON 480 Special Topics **1-4 Credit hours**
A study of special topics not listed under current course offerings. A study of special topics not listed under current course offerings.
Pre-req: Admitted Honors College with a score of 1.
Grade Mode: Normal Grading Mode

HON 483 Special Topics **1-4 Credit hours**
A study of special topics not listed under current course offerings. A study of special topics not listed under current course offerings.
Pre-req: Admitted Honors College with a score of 1.
Grade Mode: Normal Grading Mode

HON 484 Honors College Newsletter **1-2 Credit hours**
An experiential learning course where students peer teach skills for and participate in information gathering, writing, editing, and designing the Honors College newsletter. May be repeated for credit.
Pre-req: Admitted Honors College with a score of 1.
Grade Mode: Credit/No Credit Grade Only

HON 485 Independent Study **1-4 Credit hours**
Grade Mode: Normal Grading Mode

HON 486 Independent Study **1-4 Credit hours**
Pre-req: Admitted Honors College with a score of 1.
Grade Mode: Normal Grading Mode

HON 487 Independent Study **1-4 Credit hours**
Grade Mode: Normal Grading Mode

HON 488 Student Assoc Steering Comm **1-2 Credit hours**
Steering Committee is an experiential learning course in which students peer teach leadership and community building while organizing service, educational, and social events. May be repeated for credit.
Pre-req: Admitted Honors College with a score of 1.
Grade Mode: Credit/No Credit Grade Only

Instruct Tech-Library Science (ITL)

- General Education Course

ITL 115 Intro to Info Lit Research **3 Credit hours**
Introduces students to basic research (including the use of the library and other resources), information literacy and information management skills needed to succeed in college, the online environment, and beyond.
Grade Mode: Normal Grading Mode

ITL 280 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

ITL 281 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

ITL 282 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

ITL 283 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

ITL 301 RBA Career Preparation **1 Credit hour**
Preparation for career after completing a college degree, including self-assessment, career exploration in conjunction with Marshall's Career Services, development of a resume, cover letter, and completion of mock interview.
Grade Mode: Normal Grading Mode

ITL 350 Adv Digital Literacy Skills **1-3 Credit hours**
Examination of online search/retrieval skills used to define, access, evaluate, manage, integrate, create, and use digital information ethically; emphasis on critical thinking and practical use of Web 2.0 tools. Examination of online search/retrieval skills used to define, access, evaluate, manage, integrate, create, and use digital information ethically; emphasis on critical thinking and practical use of Web 2.0 tools.
Attributes: Digital Humanities
Grade Mode: Normal Grading Mode

ITL 365 Instructional Technology Apps **3 Credit hours**
Utilization of various computer software applications with emphasis on practical usage to produce graphic aids such as charts, brochures, spreadsheets, drawings and audio or video clips.
Grade Mode: Normal Grading Mode

ITL 400 Intro to New Literacies **3 Credit hours**
This course is an introduction to new literacies within the field of library science discussing meta, digital and visual literacy information trends and the current issues affecting these literacy types.
Grade Mode: Normal Grading Mode

ITL 403 RBA Adv Portfolio Development **3 Credit hours**
Students are coached through the RBA portfolio development process. This includes: What a portfolio is; inventorying their work and life experience; and creating and submitting the portfolio.
Grade Mode: Normal Grading Mode

ITL 406 Digital Citizenship **3 Credit hours**
Introduction to skills that build digital citizenship literacy that will help students learn the cognitive, social and technical skills for navigating and evaluating the digital information ecosystem.
Attributes: Digital Humanities
Grade Mode: Normal Grading Mode

ITL 425 Library Organiza & Admin **3 Credit hours**
Principles of administration for elementary and secondary school library-media centers and public libraries, including personnel, facilities, budgets, program planning and evaluation, publicity and public relations, audiovisual equipment and materials, computer hardware and software, and methods and materials for teaching library skills. Principles of administration for elementary and secondary school library-media centers and public libraries, including personnel, facilities, budgets, program planning and evaluation, publicity and public relations, audiovisual equipment and materials, computer hardware and software, and methods and materials for teaching library skills.
Grade Mode: Normal Grading Mode

ITL 430 Technology & the Library **3 Credit hours**
An introduction to the function, management, and the issues of computer and non-computer technology in the library. Students learn to use technology as an educational tool in the classroom. An introduction to the function, management, and the issues of computer and non-computer technology in the library. Students learn to use technology as an educational tool in the classroom.
Grade Mode: Normal Grading Mode

ITL 455 Pedagogy of New Literacies **3 Credit hours**
This course expands on instruction techniques for new literacies in a variety of library types and information-related organizations including the learning needs of K-12, ESL, exceptional and adult learners.
Attributes: Digital Humanities
Grade Mode: Normal Grading Mode

ITL 466 Prod of Instruct Tech Material **3 Credit hours**
This course will assist students in designing multimedia instructional materials. Focus will be on the development of web-based instructional materials.
Grade Mode: Normal Grading Mode

ITL 467 Media Skills Dev Inst **3 Credit hours**
Basic techniques in producing and using a variety of audiovisual aids, i.e., photography, scipting,developing loges, audio-recording and layout design for manuals. This This course also prepares one to produce a slide-tape presentation. Basic techniques in producing and using a variety of audiovisual aids, i.e., photography, scipting,developing loges, audio-recording and layout design fo manuals. This This course also prepares one to produce a slide-tape presentation.
Grade Mode: Normal Grading Mode

ITL 468 Computer Graphics in ITL **3 Credit hours**
A basic course designed to assist the student in becoming familiar with a variety of software graphics packages. A basic course designed to assist the student in becoming familiar with a variety of software graphics packages.
Grade Mode: Normal Grading Mode

ITL 480 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

ITL 481 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

ITL 482 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

ITL 483 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

ITL 485 Independent Study **1-4 Credit hours**
Grade Mode: Normal Grading Mode

ITL 486 Independent Study **1-4 Credit hours**
Grade Mode: Normal Grading Mode

ITL 487 Independent Study **1-4 Credit hours**
Grade Mode: Normal Grading Mode

ITL 488 Independent Study **1-4 Credit hours**
Grade Mode: Normal Grading Mode

ITL 491 Workshop **1-4 Credit hours**
Grade Mode: Normal Grading Mode

ITL 492 Workshop **1-4 Credit hours**
Grade Mode: Normal Grading Mode

ITL 493 Workshop **1-4 Credit hours**
Grade Mode: Normal Grading Mode

ITL 494 Workshop **1-4 Credit hours**
Grade Mode: Normal Grading Mode

International Affairs (INT)

- General Education Course

INT 499 Senior Seminar **3 Credit hours**
A capstone experience for International Affairs majors, intended to provide an integrated perspective on the field through the application of interdisciplinary theories, methods, and practices to global issues.
Pre-req: PSC 209 with a minimum grade of D and PSC 406 with a minimum grade of D.
Attributes: Capstone Course
Grade Mode: Normal Grading Mode

Japanese (JPN)

- General Education Course

JPN 101 Elementary Japanese I **3 Credit hours**
Pronunciation, conversation, reading and composition with emphasis on aural/oral development. This includes katakana, hiragana, and Chinese characters, used in context. Pronunciation, conversation, reading and composition with emphasis on aural/oral development. This includes katakana, hiragana, and Chinese characters, used in context.
Grade Mode: Normal Grading Mode

JPN 102 Elementary Japanese II **3 Credit hours**
Pronunciation, conversation, reading and composition with emphasis on aural/oral development. This includes katakana, hiragana and Chinese characters, used in context.
Pre-req: JPN 101 with a minimum grade of C.
Grade Mode: Normal Grading Mode

JPN 203 Intermediate Japanese III **3 Credit hours**
Continuation on the intermediate level of the basic skills: pronunciation, conversation, reading, and composition with emphasis on aural/oral development. More work on katakana, hiragana and Chinese characters, used in context.
Pre-req: JPN 102 with a minimum grade of C.
Grade Mode: Normal Grading Mode

JPN 204 Intermediate Japanese IV **3 Credit hours**
Development of practical conversational skills, reading for comprehension, and directed compositions.
Pre-req: JPN 203 with a minimum grade of C.
Attributes: Foreign Language
Grade Mode: Normal Grading Mode

JPN 240 Japanese Culture (CT) **3 Credit hours**
An introduction course of Japanese society and culture through Japanese films, readings, and lectures. This course examines social, political and cultural themes in contemporary Japanese society. Course taught in English. An introduction course of Japanese society and culture through Japanese films, readings, and lectures. This course examines social, political and cultural themes in contemporary Japanese society. Course taught in English.
Attributes: Critical Thinking, Core II Humanities, International
Grade Mode: Normal Grading Mode

JPN 245 Modern Japanese Lit (CT) **3 Credit hours**
Taught in English, course examines Japanese literature from the mid-nineteenth century to the present day.
Attributes: Critical Thinking, Core II Humanities, International, Literature
Grade Mode: Normal Grading Mode

JPN 250 Japanese Anime & Manga (CT) **3 Credit hours**
Taught in English, this course examines the history and nature of Japanese animation (anime) and comics (manga).
Attributes: Critical Thinking, Core II Humanities, International, Literature
Grade Mode: Normal Grading Mode

JPN 280 Japanese Special Topics **1-4 Credit hours**
Study of a topic not normally covered in courses. Study of a topic not normally covered in courses.
Pre-req: JPN 204.
Grade Mode: Normal Grading Mode

JPN 281 Japanese Special Topics **1-4 Credit hours**
Study of a topic not normally covered in courses. Study of a topic not normally covered in courses.
Pre-req: JPN 204.
Grade Mode: Normal Grading Mode

JPN 282 Japanese Special Topics **1-4 Credit hours**
Study of a topic not normally covered in courses. Study of a topic not normally covered in courses.
Pre-req: JPN 204.
Grade Mode: Normal Grading Mode

JPN 283 Japanese Special Topics **1-4 Credit hours**
Study of a topic not normally covered in courses. Study of a topic not normally covered in courses.
Pre-req: JPN 204.
Grade Mode: Normal Grading Mode

JPN 304 Premodern Japanese Literature **3 Credit hours**
This course introduces a comprehensive overview of the history of Japanese literature from the earliest times to the mid-nineteenth century. Course taught in English. This course introduces a comprehensive overview of the history of Japanese literature from the earliest times to the mid-nineteenth century. Course taught in English.
Attributes: Literature
Grade Mode: Normal Grading Mode

JPN 305 Advanced Japanese I **3 Credit hours**
Equal emphasis on listening, speaking, reading and writing. Students learn advanced new Kanji characters. The course includes preparation for the Japanese Proficiency Exam. Course taught in Japanese. Equal emphasis on listening, speaking, reading and writing. Students learn advanced new Kanji characters. The course includes preparation for the Japanese Proficiency Exam. Course taught in Japanese.
Pre-req: JPN 204.
Grade Mode: Normal Grading Mode

JPN 307 Japanese Conversation **3 Credit hours**
Speaking intensive course designed to develop communicative skills and review language fundamentals acquired in JPN 101-204 course sequence. Course taught in Japanese. Speaking intensive course designed to develop communicative skills and review language fundamentals acquired in JPN 101-204 course sequence. Course taught in Japanese.
Pre-req: JPN 204.
Grade Mode: Normal Grading Mode

JPN 315 Advanced Japanese II **3 Credit hours**
Equal emphasis on listening, speaking, reading, and writing skills. Students learn advanced grammar and 100 Kanji characters. The course includes preparation for the Japanese Proficiency Exam. Course taught in Japanese. Equal emphasis on listening, speaking, reading, and writing skills. Students learn advanced grammar and 100 Kanji characters. The course includes preparation for the Japanese Proficiency Exam. Course taught in Japanese.
Pre-req: JPN 305 with a minimum grade of D.
Grade Mode: Normal Grading Mode

JPN 325 Business Japanese **3 Credit hours**
Students learn conversational expressions and Japanese manners that can be used in actual business situations in Japanese companies. Students learn conversational expressions and Japanese manners that can be used in actual business situations in Japanese companies.
Pre-req: JPN 204 with a minimum grade of D.
Grade Mode: Normal Grading Mode

JPN 330 Japanese Grammar **3 Credit hours**
A review of intermediate level of Japanese grammar equivalent to N3 and N4 JLPT (Japanese Language Proficiency Test). It familiarizes students with test components including vocabulary, reading, grammer, and listening.
Pre-req: JPN 204.
Grade Mode: Normal Grading Mode

JPN 335 JPN Society & Culture **3 Credit hours**
Am introduction course of Japanese society and culture through Japanese films, readings and lectures. This course examines social, political and cultural themes in contemporary Japanese society. Course taught in Japanese. Am introduction course of Japanese society and culture through Japanese films, readings and lectures. This course examines social, political and cultural themes in contemporary Japanese society. Course taught in Japanese.
Pre-req: JPN 204.
Attributes: International
Grade Mode: Normal Grading Mode

JPN 401 Readings in Adv Japanese I **3 Credit hours**
Students learn comprehensive skills in contemporary Japanese at advanced level and 250 new kanji. Students conduct a presentation in Japanese. Course taught in Japanese. Students learn comprehensive skills in contemporary Japanese at advanced level and 250 new kanji. Students conduct a presentation in Japanese. Course taught in Japanese.
Pre-req: JPN 315 or JPN 316.
Attributes: International
Grade Mode: Normal Grading Mode

JPN 402 Readings in Adv Japanese II **3 Credit hours**
Students continue to learn comprehensive skills in contemporary Japanese at advanced level and 250 new kanji. Students conduct survey research in Japanese. Course taught in Japanese. Students continue to learn comprehensive skills in contemporary Japanese at advanced level and 250 new kanji. Students conduct survey research in Japanese. Course taught in Japanese.
Pre-req: JPN 401.
Attributes: International, No Textbook Required
Grade Mode: Normal Grading Mode

JPN 403 Japanese Film in English **3 Credit hours**
A survey of Japanese cinema from literary,historical, cultural and interdisciplinary perspectives. Readings and lectures introduce the director's work and the backgrounds of individual films. Course taught in English. A survey of Japanese cinema from literary,historical, cultural and interdisciplinary perspectives. Readings and lectures introduce the director's work and the backgrounds of individual films. Course taught in English.
Grade Mode: Normal Grading Mode

JPN 408 Lit Asians in Americas **3 Credit hours**
Taught in English, this course explores Asian American literature in the U.S., Canada, Latin America, and the Caribbean, focusing on race, class and gender.
Pre-req: ENG 101.
Attributes: International
Grade Mode: Normal Grading Mode

JPN 480 Japanese Special Topics **1-4 Credit hours**
Study of a topic not normally covered in courses. Study of a topic not normally covered in courses.
Pre-req: JPN 204.
Grade Mode: Normal Grading Mode

JPN 481 Japanese Special Topics **1-4 Credit hours**
Study of a topic not normally covered in courses. Study of a topic not normally covered in courses.
Pre-req: JPN 204.
Grade Mode: Normal Grading Mode

JPN 482 Japanese Special Topics **1-4 Credit hours**
Study of a topic not normally covered in courses. Study of a topic not normally covered in courses.
Pre-req: JPN 204.
Grade Mode: Normal Grading Mode

JPN 483 Japanese Special Topics **1-4 Credit hours**
Study of a topic not normally covered in courses. Study of a topic not normally covered in courses.
Pre-req: JPN 204.
Grade Mode: Normal Grading Mode

JPN 485 Independent Study **1-4 Credit hours**
Pre-req: JPN 204.
Grade Mode: Normal Grading Mode

JPN 486 Independent Study **1-4 Credit hours**
Pre-req: JPN 204.
Grade Mode: Normal Grading Mode

JPN 487 Independent Study **1-4 Credit hours**
Grade Mode: Normal Grading Mode

JPN 488 Independent Study **1-4 Credit hours**
Grade Mode: Normal Grading Mode

JPN 490 Japanese Capstone **3 Credit hours**
Designed for Japanese majors as a senior capstone seminar. Students develop specific skills to conduct research on chosen topics and to present a research project in Japanese. Designed for Japanese majors as a senior capstone seminar. Students develop specific skills to conduct research on chosen topics and to present a research project in Japanese.
Pre-req: JPN 401.
Attributes: International
Grade Mode: Normal Grading Mode

Journalism & Mass Comm. (JMC)

- General Education Course

JMC 100 Fund Jrn Writing & Edit **3 Credit hours**
Preparatory course to develop writing and editing skills specifically as related to professional journalism and mass communication. Required if score is less than 77 on School-administered language-skills test. Not counted toward graduation. Preparatory course to develop writing and editing skills specifically as related to professional journalism and mass communication. Required if score is less than 77 on School-administered language-skills test. Not counted toward graduation.
Grade Mode: Normal Grading Mode

JMC 101 Media Literacy **3 Credit hours**
Examines structures and functions of mass media and newspapers, magazines, broadcast journalism, broadcasting, advertising and public relations. Designed to provide a critical overview of the mass media. Includes guest speakers. Examines structures and functions of mass media and newspapers, magazines, broadcast journalism, broadcasting, advertising and public relations. Designed to provide a critical overview of the mass media. Includes guest speakers.
Attributes: Core II Humanities, No Textbook Required
Grade Mode: Normal Grading Mode

JMC 102 Media Toolbox **3 Credit hours**
Introduction to media writing, creative and critical thinking, information literacy, data management, computer search tools, social media and interviewing for mass communications professionals.
Grade Mode: Normal Grading Mode

JMC 103 Language Use for Media **1 Credit hour**
Review of English grammar and usage; preparation for taking SOJMC standard language exam.
Grade Mode: Credit/No Credit Grade Only

JMC 201 News Writing I **3 Credit hours**
Techniques of cross media news writing designed to develop basic skills necessary for beginning reporters and public relations professionals through in-class laboratoy experience. . Techniques of cross media news writing designed to develop basic skills necessary for beginning reporters and public relations professionals through in-class laboratoy experience. .
Pre-req: JMC 101 with a minimum grade of C and JMC 102 with a minimum grade of C.
Grade Mode: Normal Grading Mode

JMC 221 Advertising/Continuity Writing **3 Credit hours**
Introduction to advertising and broadcast copy writing. Includes strategy, script formats, persuasion, styles of writing, editing, and industry organization, structures and standards. Many writing assignments. Introduction to advertising and broadcast copy writing. Includes strategy, script formats, persuasion, styles of writing, editing, and industry organization, structures and standards. Many writing assignments.
Pre-req: JMC 101 with a minimum grade of C and JMC 102 with a minimum grade of C.
Grade Mode: Normal Grading Mode

JMC 222 Introduction to Media Studies **3 Credit hours**
This course provides students with an overview of fundamental approaches, theories, and perspectives essential to successfully complete a minor in media studies.
Grade Mode: Normal Grading Mode

JMC 230 General Photography **3 Credit hours**
An introduction to still digital photography and image processing.
Grade Mode: Normal Grading Mode

JMC 231 Intro to Audio Production **3 Credit hours**
Fundamentals of audio production, including operation of audio equipment, microphone techniques, tape editing and audio production. Laboratory work at WMUL-FM is required. (PR: JMC 101) Fundamentals of audio production, including operation of audio equipment, microphone techniques, tape editing and audio production. Laboratory work at WMUL-FM is required. (PR: JMC 101)
Pre-req: JMC 101 with a minimum grade of C.
Grade Mode: Normal Grading Mode

JMC 235 Intro to Sports Journalism **3 Credit hours**
Introduction to Sports Journalism involves applying the core principles of journalism (honesty, accuracy, clarity, fairness, accountability) to covering any sports related activity.
Pre-req: JMC 101 with a minimum grade of C.
Grade Mode: Normal Grading Mode

JMC 241 Media Design **3 Credit hours**
Design principles; conceive, create and evaluate executions for print, websites, mobile applications, information-based and ad based graphics. (PR: Keyboarding proficiency)
Attributes: Digital Humanities, No Textbook Required
Grade Mode: Normal Grading Mode

JMC 245 Intro to Strategic Comm **3 Credit hours**
An examination of theories, practices and techniques of strategic communications used by agencies and organizations.
Grade Mode: Normal Grading Mode

JMC 260 Digital Imaging for JMC **3 Credit hours**
Methods of taking and editing still and video digital images for print, broadcast, and digital publication.
Attributes: Digital Humanities
Grade Mode: Normal Grading Mode

JMC 272 Practice in Radio **1 Credit hour**
Staff responsibility on campus broadcast facilities, WMUL-FM. (PR: Written permission before registration and the satisfactory completion of one year of service on WMUL) Staff responsiblity on campus broadcast facilities, WMUL-FM. (PR: Written permission before registration and the satisfactory completion of one year of service on WMUL)
Grade Mode: Normal Grading Mode

JMC 273 Practice in Radio **1 Credit hour**
Staff responsiblity on campus broadcast facilities, WMUL-FM. (PR: Written permission before registration and the satisfactory completion of one year of service on WMUL) Staff responsiblity on campus broadcast facilities, WMUL-FM. (PR: Written permission before registration and the satisfactory completion of one year of service on WMUL)
Attributes: No Textbook Required
Grade Mode: Normal Grading Mode

JMC 280 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

JMC 300 Reporting and News Writing **3 Credit hours**
Techniques of cross media news writing designed to develop basic skills necessary for beginning reporters and public relations professionals through in-class laboratory experience.
Pre-req: JMC 101 with a minimum grade of C and JMC 102 with a minimum grade of C.
Grade Mode: Normal Grading Mode

JMC 301 Beat Reporting **3 Credit hours**
Practice in gathering and writing news. Emphasis placed on beat assignment reporting, interviewing techniques, and specialized reporting. A laboratory class in which students write for student media. (PR: JMC 102, 300)
Pre-req: JMC 102 with a minimum grade of C and (JMC 300 with a minimum grade of C or JMC 201 with a minimum grade of C).
Grade Mode: Normal Grading Mode

JMC 302 Advanced Editing & Design **3 Credit hours**
Advanced course in newspaper copy editing, headline writing and design for daily, community and public relations newspapers. Laboratory instruction and experience on the printed and online issues of the university newspaper, The Parthenon. Advanced course in newspaper copy editing, headline writing and design for daily, community and public relations news- papers. Laboratory instruction and experience on the printed and online issues of the university newspaper, The Parthenon.
Pre-req: JMC 301 with a minimum grade of C and JMC 241 with a minimum grade of C.
Grade Mode: Normal Grading Mode

JMC 303 Sports News Reporting **3 Credit hours**
In-depth news reporting on the sports beat, breaking news and analysis. In-depth news reporting on the sports beat, breaking news and analysis.
Pre-req: JMC 201 with a minimum grade of C.
Grade Mode: Normal Grading Mode

JMC 305 Copy Editing **3 Credit hours**
Copy editing for newspapers, magazines and online, with emphasis on finding and correcting errors of fact, grammar, spelling. AP style; writing headlines; selecting and placing stories in publications.
Pre-req: JMC 300 with a minimum grade of C.
Grade Mode: Normal Grading Mode

JMC 321 Sportscasting **3 Credit hours**
A "hands-on" course designed to develop announcing, interviewing and writing skills specifically as such skills relate to play-by-play techniques and practices.
Pre-req: JMC 101 and JMC 231.
Grade Mode: Normal Grading Mode

JMC 330 AD-PR Principles and Ethics **3 Credit hours**
An examination of advertising and public relations theories and practices used by organizations across all sectors of society. Special emphasis on the role of ethics in advertising and public relations.
Grade Mode: Normal Grading Mode

JMC 331 Radio-TV Announ & Newscasting **3 Credit hours**
Specialized training in the interpretive skills of announcing and newscasting.
Pre-req: JMC 101.
Grade Mode: Normal Grading Mode

JMC 332 Intro to Video Production **3 Credit hours**
Introduction to the fundamentals of video production, dealing with cameras, microphones, lighting, staging, field Production, editing, post production.
Pre-req: JMC 101 with a minimum grade of C.
Grade Mode: Normal Grading Mode

JMC 340 Basic Broadcast News **3 Credit hours**
Introduction and overview of electronic journalism. Emphasis on broadcast writing. Students will report for Newscenter 88 WMUL-FM. Introduction and overview of electronic journalism. Emphasis on broadcast writing. Students will report for Newscenter 88 WMUL-FM.
Pre-req: JMC 102 with a minimum grade of C.
Grade Mode: Normal Grading Mode

JMC 345 Mass Comm Law and Ethics **3 Credit hours**
A cross-media overview combining study of legal concepts important to the media practitioner, ethical conflicts encountered, and application of legal precedents and ethical principles.
Pre-req: (JMC 103 with a minimum grade of C or JMC 100 with a minimum grade of C) and (JMC 201 with a minimum grade of C or JMC 221 with a minimum grade of C or JMC 300 with a minimum grade of C or JMC 380 with a minimum grade of C).
Grade Mode: Normal Grading Mode

JMC 361 Digital Presence **3 Credit hours**
Digital strategies in news and strategic communication contexts including digital presence and content development; ethical issues, and best practices.
Attributes: Digital Humanities, No Textbook Required
Grade Mode: Normal Grading Mode

JMC 372 Practice in Radio or TV **1-2 Credit hours**
Staff responsibility on campus broadcast facilities WMUL-FM or WPBY TV. Staff responsibility on campus broadcast facilities WMUL-FM or WPBY TV.
Grade Mode: Normal Grading Mode

JMC 373 Practice in Radio or TV **1-2 Credit hours**
Staff responsibility on campus broadcast facilities WMUL-FM or WPBY TV. Staff responsibility on campus broadcast facilities WMUL-FM or WPBY TV.
Attributes: No Textbook Required
Grade Mode: Normal Grading Mode

JMC 380 AD-PR and Continuity Writing **3 Credit hours**
Crafting of multimedia content for advertising-public relations and broadcast continuity with attention to communications strategy development, script formats and writing styles for traditional, digital and social media.
Pre-req: JMC 330 with a minimum grade of C or MKT 340 with a minimum grade of C.
Grade Mode: Normal Grading Mode

JMC 383 Content Creation **3 Credit hours**
Concept-driven media design with an emphasis on digital media. (PR: JMC 241)
Pre-req: JMC 241 with a minimum grade of C.
Grade Mode: Normal Grading Mode

JMC 385 Advertising Media Plan **3 Credit hours**
Planning and practice in allocating advertising budgets in the mass media to effectively reach the target audiences at the most reasonable cost. Planning and practice in allocating advertising budgets in the mass media to effectively reach the target audiences at the most reasonable cost.
Pre-req: JMC 245 or MKT 341.
Grade Mode: Normal Grading Mode

JMC 390 Media Sales & Underwriting **3 Credit hours**
Introduction to business side of mass media with emphasis on sales in television and radio; consideration of competing media; differences between commercial and public braodcasting; and the elements of underwriting. Introduction to business side of mass media with emphasis on sales in television and radio; consideration of competing media; differences between commercial and public braodcasting; and the elements of underwriting.
Grade Mode: Normal Grading Mode

JMC 400 Digital Imaging II **3 Credit hours**
Advanced methods of taking and editing still and video images for print broadcast, and online publications. A course in advanced techniques for newspaper and magazine photography, concentrating on creation, design and use of photo essays and picture stories. (PR: JRN 360)
Pre-req: JMC 260 with a minimum grade of D or ART 315 with a minimum grade of D.
Grade Mode: Normal Grading Mode

JMC 402 Law of Mass Communication **3 Credit hours**
A cross-media overview of the legal concepts important to the media professional with special focus on the roles, rights and responsibilities of those individuals. A cross-media overview of the legal concepts important to the media professional with special focus on the roles, rights and responsibilities of those individuals.
Attributes: No Textbook Required
Grade Mode: Normal Grading Mode

JMC 404 Hist Am JRN & Mass Comm **3 Credit hours**
The development of the press in the United States, the contributions of American journalists, the rise of radio and television, and the relation of communications developments to political, economic and social trends in America. The development of the press in the United States, the contributions of American journalists, the rise of radio and television, and the relation of communications developments to political, economic and social trends in America.
Grade Mode: Normal Grading Mode

JMC 406 Creative Branding **3 Credit hours**
Creative direction in developing the personality, reputation, appearance and character of a great brand consistent in all aspects.
Pre-req: JMC 241 with a minimum grade of C or MKT 340 with a minimum grade of C.
Grade Mode: Normal Grading Mode

JMC 408 Research Analytics **3 Credit hours**
Introduction to methods and tools used to monitor, inform and evaluate advertising-public relations decisions including applications of research methods and digital analytics.
Grade Mode: Normal Grading Mode

JMC 410 Magazine Editorial Prac **3 Credit hours**
Study of the organization and functions of the magazine editorial department, with practice in planning magazine content, laying out pages and establishing production procedures. Study of the organization and functions of the magazine editorial department, with practice in planning magazine content, laying out pages and establishing production procedures.
Pre-req: JRN 241 or JMC 241.
Grade Mode: Normal Grading Mode

JMC 414 Reporting Public Affairs **3 Credit hours**
Advanced instruction in cross media reporting local, state, and federal government; politics, finance, and labor; social and environmental issues, with emphasis on background and interpretation. Course includes field trips and guest speakers. (PR: JMC 301) Advanced instruction in cross media reporting local, state, and federal government; politics, finance, and labor; social and environmental issues, with emphasis on background and interpretation. Course includes field trips and guest speakers. (PR: JMC 301)
Pre-req: JMC 301 with a minimum grade of C.
Grade Mode: Normal Grading Mode

JMC 415 Content Strategy **3 Credit hours**
Students will analyze advertising-public relations content problems, propose strategic solutions, create content and present strategies. Students will write, design and produce content for a variety of media. PR: JMC 380, 383
Pre-req: JMC 380 with a minimum grade of D and JMC 383 with a minimum grade of D.
Grade Mode: Normal Grading Mode

JMC 417 Advanced Digital Filmmaking **3 Credit hours**
Students will learn advanced concepts, theories and skills in digital narrative film production. Working through all phases of production, students will create an original short film from script to screening. PR: JMC 332
Pre-req: JMC 332 with a minimum grade of D.
Grade Mode: Normal Grading Mode

JMC 420 Electronic Media Mgt **3 Credit hours**
Covers special circumstances faced by electronic media managers including programming, legal constraints, employment practices, technologocal developments, social pressures, impact of the Internet and other concerns. Covers special circumstances faced by electronic media managers including programming, legal constraints, employment practices, technologocal developments, social pressures, impact of the Internet and other concerns.
Attributes: Capstone Course
Grade Mode: Normal Grading Mode

JMC 424 Media Strategy **3 Credit hours**
Focuses on the delivery of advertising-public relations messages with attention to the development of audience personas, content management and analytics for traditional, digital and social media. PR: JMC 330 or MKT 340.
Pre-req: JMC 330 with a minimum grade of C or MKT 340 with a minimum grade of C or JMC 245 with a minimum grade of C.
Grade Mode: Normal Grading Mode

JMC 430 Magazine Article Writing **3 Credit hours**
Fundamentals of researching and writing the popular, factual magazine article; techniques of selling articles to magazines. Fundamentals of researching and writing the popular, factual magazine article; techniques of selling articles to magazines.
Grade Mode: Normal Grading Mode

JMC 432 AD-PR Video Production **3 Credit hours**
Students will create and produce various informational, promotional, and training video for companies and organizations. Students will learn to make and critique AD-PR videos that inform, persuade, and entertain. PR: JMC 260
Pre-req: JMC 260.
Grade Mode: Normal Grading Mode

JMC 434 Advanced Video **3 Credit hours**
Development of the elements necessary for the production of detailed video projects. Students study the creation and production of public affairs, educational and creative video programming. (PR: JMC 332) Development of the elements necessary for the production of detailed video projects. Students study the creation and production of public affairs, educational and creative video programming. (PR: JMC 332)
Pre-req: JMC 332.
Grade Mode: Normal Grading Mode

JMC 436 International Mass Comm **3 Credit hours**
Development of various systems of mass communications and comparison with the United States. Development of various systems of mass communications and comparison with the United States.
Attributes: International
Grade Mode: Normal Grading Mode

JMC 437 Public Relations Planning **3 Credit hours**
Public relations planning, writing, and pitching of strategies and tactics to clients. (PR: JMC 241, 300, 330, 380, 408)
Pre-req: JMC 241 with a minimum grade of C and JMC 300 with a minimum grade of C and JMC 330 with a minimum grade of C and JMC 380 with a minimum grade of C and JMC 408 with a minimum grade of C.
Grade Mode: Normal Grading Mode

JMC 438 Public Relations Case Studies **3 Credit hours**
Examination of the handling of public relations problems and opportunities by business, educational, governmental, and social organizations, with particular emphsis on public relatins analysis and problem solving. (PR: JRN 330) Examination of the handling of public relations problems and opportunities by business, educational, governmental, and social organizations, with particular emphsis on public relatins analysis and problem solving. (PR: JRN 330)
Pre-req: JMC 330 with a minimum grade of C.
Grade Mode: Normal Grading Mode

JMC 439 AD-PR Campaign Management **3 Credit hours**
Students function as an AD-PR firm that researches, plans, implements, and evaluates advertising and public relations campaigns for clients. Capstone experience. (PR: JMC 330, 380, 383, 408, and either 406, 415, 424 (AD) or 301, 437, 438 (PR))
Pre-req: JMC 241 with a minimum grade of C and (JMC 330 with a minimum grade of C or MKT 341 with a minimum grade of C) and (JMC 201 with a minimum grade of C or JMC 221 with a minimum grade of C or JMC 300 with a minimum grade of C or JMC 380 with a minimum grade of C) and (JMC 385 with a minimum grade of C or JMC 415 with a minimum grade of C or JMC 424 with a minimum grade of C) and (JMC 301 with a minimum grade of C or JMC 437 with a minimum grade of C or JMC 438 with a minimum grade of C).
Attributes: Capstone Course, No Textbook Required
Grade Mode: Normal Grading Mode

JMC 440 Mass Comm Ethics **3 Credit hours**
Study of basic concepts underlying contemporary American mass communications operations and practices and how those concepts affect professional ethics in the field. Examination of ethical conflicts encountered and appliction of ethical principles when determining solutions. Study of basic concepts underlying contemporary American mass communications operations and practices and how those concepts affect professional ethics in the field. Exam- ination of ethical conflicts encountered and appliction of ethical principles when determining solutions.
Attributes: Capstone Course
Grade Mode: Normal Grading Mode

JMC 450 Contemp Issues Radio-TV **3 Credit hours**
An examination of the current political, social, economic and legal issues affecting the decision making process in the newsrooms and programming centers of the electronic media. (PR: jr standing) An examination of the current political, social, economic and legal issues affecting the decision making process in the newsrooms and programming centers of the electronic media. (PR: jr standing)
Grade Mode: Normal Grading Mode

JMC 451 Television Reporting **3 Credit hours**
Students report, shoot, edit, write, produce and anchor MU Report, a student-produced newscast. The class makes use of university broadcast facilities and West Virginia Public Television as available. PR: JMC 301 Students report, shoot, edit, write, produce and anchor MU Report, a student-produced newscast. The class makes use of university broadcast facilities and West Virginia Public Television as available. PR: JMC 301
Pre-req: JMC 301 (may be taken concurrently).
Concurrent PR: JMC 301
Grade Mode: Normal Grading Mode

JMC 452 Advanced TV Reporting **3 Credit hours**
Students report, shoot, edit, write, produce and anchor MU Report, a student-produced newscast, on an advanced level. The class makes use of university broadcast facilities and West Virginia Public Television as available. PR: JMC 451 Students report, shoot, edit, write, produce and anchor MU Report, a student-produced newscast, on an advanced level. The class makes use of university broadcast facilities and West Virginia Public Television as available. PR: JMC 451
Pre-req: JMC 451.
Grade Mode: Normal Grading Mode

JMC 455 Race Gender & Mass Media **3 Credit hours**
A seminar that explores the portrayals and participation of women and people of color in the mass media. A seminar that explores the portrayals and participation of women and people of color in the mass media.
Grade Mode: Normal Grading Mode

JMC 458 Emerging Media for Journalists **3 Credit hours**
Students will demonstrate uses of emerging media for journalistic purposes, focusing on social networks and conversational media with associated digital media tools and platforms. PR: JMC 301
Pre-req: JMC 301 with a minimum grade of D.
Grade Mode: Normal Grading Mode

JMC 462 Web Design for Mass Media **3 Credit hours**
Creative and practical aspects of typography, design and interactivity of online communications for the mass media. Creative and practical aspects of typography, design and interactivity of online communications for the mass media.
Pre-req: JMC 241.
Attributes: Digital Humanities
Grade Mode: Normal Grading Mode

JMC 465 Multimedia Reporting **3 Credit hours**
An advanced laboratory reporting class in which students, in teams and individually, produce multimedia stories including audio, video, still photos, text and graphics for publication. PR: JMC 260 and 301 (Capstone)
Pre-req: JMC 260 with a minimum grade of C and JMC 301 with a minimum grade of C.
Attributes: Capstone Course
Grade Mode: Normal Grading Mode

JMC 468 Environmental Mass Comm **3 Credit hours**
Identifying, analyzing and discussing issues that challenge environmental communications, strategizing the creation of comprehensible environmental messages, and examinging philosophies that underpin environmental communications.
Grade Mode: Normal Grading Mode

JMC 470 Professional Practicum **1-4 Credit hours**
Instruction to assist students in meeting career expectations. Short-term courses designed to bridge instructional programs and practices of professional journalism. Students may participate in supervised publications work in reporting, editing and advertising. Instruction to assist students in meeting career expecta- tions. Short-term courses designed to bridge instructional programs and practices of professional journalism. Students may participate in supervised publications work in reporting, editing and advertising.
Attributes: No Textbook Required
Grade Mode: Normal Grading Mode

JMC 475 Documentary Journalism **3 Credit hours**
Students will view, critique and evaluate the genres of nonfiction storytelling. Students will produce an original 15-minute film to be screened to the public. Students will view, critique and evaluate the genres of nonfiction storytelling. Students will produce an original 15-minute film to be screened to the public.
Pre-req: (JMC 260 with a minimum grade of C or JMC 360 with a minimum grade of C) and (JMC 201 with a minimum grade of C or JMC 221 with a minimum grade of C or JMC 300 with a minimum grade of C or JMC 380 with a minimum grade of C) and (JMC 260 with a minimum grade of C or JMC 360 with a minimum grade of C or JMC 332 with a minimum grade of C or JMC 432 with a minimum grade of C).
Attributes: No Textbook Required
Grade Mode: Normal Grading Mode

JMC 480 Special Topics **1-4 Credit hours**
Independent or group studies or projects in areas of interest to the student and conducted under the direction of a faculty member. Course may be taught by arrangement. Includes regular meetings with the instructor for advice and direction. Projects and studies may include mass communication research studies or special group field projects. Professors are assigned based on their proficiency in the area of study or field report. Independent or group studies or projects in areas of interest to the student and conducted under the direction of a faculty member. Course may be taught by arrangement. Includes regular meetings with the instructor for advice and direction. Projects and studies may include mass communication research studies or special group field projects. Professors are assigned based on their proficiency in the area of study or field report.
Attributes: No Textbook Required
Grade Mode: Normal Grading Mode

JMC 481 Special Topics **1-4 Credit hours**
Independent or group studies or projects in areas of interest to the student and conducted under the direction of a faculty member. Course may be taught by arrangement. Includes regular meetings with the instructor for advice and direction. Projects and studies may include mass communication research studies or special group field projects. Professors are assigned based on their proficiency in the area of study or field report. Independent or group studies or projects in areas of interest to the student and conducted under the direction of a faculty member. Course may be taught by arrangement. Includes regular meetings with the instructor for advice and direction. Projects and studies may include mass communication research studies or special group field projects. Professors are assigned based on their proficiency in the area of study or field report.
Grade Mode: Normal Grading Mode

JMC 485 Independent Study **1-4 Credit hours**
Grade Mode: Normal Grading Mode

JMC 486 Independent Study **1-4 Credit hours**
Grade Mode: Normal Grading Mode

JMC 487 Independent Study **1-4 Credit hours**
Grade Mode: Normal Grading Mode

JMC 488 Independent Study **1-4 Credit hours**
Grade Mode: Normal Grading Mode

JMC 490 Jrn & Mass Comm Internship I **1-3 Credit hours**
Supervised journalistic work with professional media including newspapers, magazines, radio, television, advertising, and public relations departments and agencies. Conferences with instructor for guidance and evaluation. Arrangements must be made with the School of Journalism internship director before enrollment. Supervised journalistic work with professional media including newspapers, magazines, radio, television, adver- tising, and public relations departments and agencies. Conferences with instructor for guidance and evaluation. Arrangements must be made with the School of Journalism internship director before enrollment.
Attributes: No Textbook Required
Grade Mode: Normal Grading Mode

JMC 491 Jrn & Mass Comm Intern II **1-3 Credit hours**
Supervised journalistic or mass communications work with professional media including newspapers, magazines, radio, television, advertising and public relations departments or agencies. Students must have completed a previous internship. (PR: Permission and JMC 490) Supervised journalistic or mass communications work with professional media including newspapers, magazines, radio, television, advertising and public relations departments or agencies. Students must have completed a previous internship. (PR: Permission and JMC 490)
Pre-req: JMC 490 with a minimum grade of D.
Attributes: No Textbook Required
Grade Mode: Normal Grading Mode

Latin (LAT)

- General Education Course

LAT 101 First Year Latin **3 Credit hours**
Grade Mode: Normal Grading Mode

LAT 102 First Year Latin **3 Credit hours**
Pre-req: LAT 101 with a minimum grade of D.
Grade Mode: Normal Grading Mode

LAT 203 Intermediate Latin **3 Credit hours**
Varied readings including selections from Cicero's Orations and Vergil's Aeneid I-VI. Varied readings including selections from Cicero's Orations and Vergil's Aeneid I-VI.
Pre-req: LAT 102.
Grade Mode: Normal Grading Mode

LAT 204 Intermediate Latin **3 Credit hours**
Varied readings including selections from Cicero's Orations and Vergil's Aeneid I-VI. Varied readings including selections from Cicero's Orations and Vergil's Aeneid I-VI.
Pre-req: LAT 203 with a minimum grade of D.
Attributes: Foreign Language
Grade Mode: Normal Grading Mode

LAT 250 Conversational Latin I **1 Credit hour**
Introduction to basic skills of oral comprehension, composition and pronunciation of Latin.
Pre-req: LAT 101 with a minimum grade of D.
Grade Mode: Normal Grading Mode

LAT 251 Conversational Latin II **1 Credit hour**
Introduction to basic skills of oral comprehension, composition and pronunciation of Latin.
Pre-req: LAT 101.
Grade Mode: Normal Grading Mode

LAT 252 Conversational Latin III **1 Credit hour**
Introduction to basic skills of oral comprehension, composition, and pronunciation of Latin.
Grade Mode: Normal Grading Mode

LAT 280 Special Topics **1-4 Credit hours**
Pre-req: LAT 204.
Grade Mode: Normal Grading Mode

LAT 281 Special Topics **1-4 Credit hours**
Pre-req: LAT 204.
Grade Mode: Normal Grading Mode

LAT 282 Special Topics **1-4 Credit hours**
Pre-req: LAT 204.
Grade Mode: Normal Grading Mode

LAT 283 Special Topics **1-4 Credit hours**
Pre-req: LAT 204.
Grade Mode: Normal Grading Mode

LAT 308 Catullus **3 Credit hours**
A close reading in Latin of the poetry of Catullus with consideration of its literary antecedents and its importance to Roman Literature.
Pre-req: LAT 204.
Attributes: Literature
Grade Mode: Normal Grading Mode

LAT 311 Readings in Ovid **3 Credit hours**
Close reading in Latin of selections from Ovid's erotic and epic poetry.
Pre-req: LAT 204 with a minimum grade of D.
Attributes: Literature
Grade Mode: Normal Grading Mode

LAT 315 Sallust and Nepos **3 Credit hours**
A close reading in Latin of selected works from Sallust and Nepos.
Pre-req: LAT 204.
Grade Mode: Normal Grading Mode

LAT 323 Latin Prose Comp: Tacitus **1 Credit hour**
Study of Latin Prose Composition, the translation of English to Latin, with special reference to the style, syntax and vocabulary of Tacitus.
Grade Mode: Normal Grading Mode

LAT 403 Roman Comedy **3 Credit hours**
Pre-req: LAT 204.
Attributes: Literature
Grade Mode: Normal Grading Mode

LAT 404 Roman Elegy: Prop & Tib **3 Credit hours**
Close readings in Latin of selections from the elegies of Propertius and Tibullus.
Pre-req: LAT 204.
Attributes: Literature
Grade Mode: Normal Grading Mode

LAT 406 Horace: Odes, Epodes, Epistles **3 Credit hours**
Attributes: Literature
Grade Mode: Normal Grading Mode

LAT 407 Livy's History of Rome **3 Credit hours**
Attributes: Literature
Grade Mode: Normal Grading Mode

LAT 408 Roman Epistolary Lit **3 Credit hours**
A unique look at Roman life, public and private, through a close reading in Latin of the correspondence of Cicero, Seneca the Elder, and Pliny the Younger. Younger. A unique look at Roman life, public and private, through a close reading in Latin of the correspondence of Cicero, Seneca the Elder, and Pliny the Younger. Younger.
Pre-req: LAT 204.
Attributes: Literature
Grade Mode: Normal Grading Mode

LAT 409 Roman Satire **3 Credit hours**
Close readings in Latin of selections from the satires of Horace and Juvenal and the epigrams of Martial.
Pre-req: LAT 204.
Attributes: Literature
Grade Mode: Normal Grading Mode

LAT 410 Tacitus: Annals Agricola **3 Credit hours**
A close reading in Latin of selections from the works of Tacitus.
Pre-req: LAT 204.
Attributes: Literature
Grade Mode: Normal Grading Mode

LAT 411 Latin Prose Comp: Survey **3 Credit hours**
Study of Latin Prose Composition, the translation of English into Latin, with special reference to the style, syntax and vocabulary of the 1st c BCE.
Pre-req: LAT 205.
Grade Mode: Normal Grading Mode

LAT 480 Special Topics **1-4 Credit hours**
Pre-req: LAT 204.
Grade Mode: Normal Grading Mode

LAT 481 Special Topics **1-4 Credit hours**
Pre-req: LAT 204.
Grade Mode: Normal Grading Mode

LAT 482 Special Topics **1-4 Credit hours**
Pre-req: LAT 204.
Grade Mode: Normal Grading Mode

LAT 483 Special Topics **1-4 Credit hours**
Pre-req: LAT 204.
Grade Mode: Normal Grading Mode

LAT 485 Independent Study **1-4 Credit hours**
Non-Latin majors may enroll in Latin Independent Study courses for one hour credit to meet general requirements in literature. For such students instruction and readings will be entirely in English. Consult chairman for current offerings. Non-Latin majors may enroll in Latin Independent Study courses for one hour credit to meet general requirements in literature. For such students instruction and readings will be entirely in English. Consult chairman for current offerings.
Pre-req: LAT 204.
Grade Mode: Normal Grading Mode

LAT 486 Independent Study **1-4 Credit hours**
Non-Latin majors may enroll in Latin Independent Study courses for one hour credit to meet general requirements in literature. For such students instruction and readings will be entirely in English. Consult chariman for current offerings. Non-Latin majors may enroll in Latin Independent Study courses for one hour credit to meet general requirements in literature. For such students instruction and readings will be entirely in English. Consult chariman for current offerings.
Pre-req: LAT 204.
Grade Mode: Normal Grading Mode

LAT 487 Independent Study **1-4 Credit hours**
Non-Latin majors may enroll in Latin Independent Study courses for one hour credit to meet general requirements in literature. For such students instruction and readings will be entirely in English. Consult chairman for current offerings. Non-Latin majors may enroll in Latin Independent Study courses for one hour credit to meet general requirements in literature. For such students instruction and readings will be entirely in English. Consult chairman for current offerings.
Pre-req: LAT 204.
Grade Mode: Normal Grading Mode

LAT 488 Independent Study **1-4 Credit hours**
Non-Latin majors may enroll in Latin Independent Study courses for one hour credit to meet general requirements in literature. For such students instruction and readings will be entirely in English. Consult chairman for current offerings. Non-Latin majors may enroll in Latin Independent Study courses for one hour credit to meet general requirements in literature. For such students instruction and readings will be entirely in English. Consult chairman for current offerings.
Pre-req: LAT 204.
Grade Mode: Normal Grading Mode

LAT 499 Latin Capstone Experience **3 Credit hours**
Senior Project. Working with a project director, students will develop a paper written in an advanced Latin course into an expanded version that incorporates primary and secondary sources.(PR: 15 hours above LAT 204)
Attributes: Capstone Course
Grade Mode: Normal Grading Mode

Legal Environment (LE)

- General Education Course

LE 207 Legal Environ of Business **3 Credit hours**
Law and the judicial system. the relationship of law, government, ethics and the consumer of business enterprise. The student of contracts, torts, government regulation of business, environmental and consumer protection.
Grade Mode: Normal Grading Mode

LE 308 Commercial Law **3 Credit hours**
A continuation of Accounting 207. Emphasizes in-depth case study of the law of commercial paper, business organizations security, and real and personal property.
Pre-req: LE 207 with a minimum grade of D.
Grade Mode: Normal Grading Mode

LE 351 Legal Aspts Hlth Care Org **3 Credit hours**
A survey of basic legal problems facing a hospital administrator. The study also includes constitutional and administrative law issues dealing with medicaid and medicare and regional planning.
Pre-req: ACC 207 with a minimum grade of D or FIN 207 with a minimum grade of D or FIN 307 with a minimum grade of D or LE 207 with a minimum grade of D.
Grade Mode: Normal Grading Mode

LE 366 Entrep Law & Ethics **3 Credit hours**
Students will examine the basic legal and ethical issues involving the creation, maintenance, and expansion of small businesses.
Grade Mode: Normal Grading Mode

LE 380 Tourism and Hospitality Law **3 Credit hours**
A review of the statutes and regulations as related to the hospitality, entertainment, and tourism industries including hotel/guest relationships, franchise agreements, and commercial law.
Grade Mode: Normal Grading Mode

Management (MGT)

- General Education Course

MGT 100 Introduction to Business **3 Credit hours**
Career exploration and preparation. Emphasis on modern supervisory management techniques in various business fields. Career exploration and preparation. Emphasis on modern supervisory management techniques in various business fields.
Grade Mode: Normal Grading Mode

MGT 218 Business Quantitative Methods **3 Credit hours**
This course introduces statistical concepts and tools that can be leveraged for business data analytics, covering hypothesis testing, regression analysis, decision-making, time series analysis, and process control.
Pre-req: MTH 121B with a minimum grade of D or MTH 123 with a minimum grade of D or MTH 120 with a minimum grade of D or MTH 130 with a minimum grade of D or MTH 130H with a minimum grade of D or MTH 121 with a minimum grade of D or MTH 121H with a minimum grade of D or MTH 127 with a minimum grade of D or MTH 132 with a minimum grade of D or MTH 203 with a minimum grade of D or MTH 190 with a minimum grade of D or MTH 131 with a minimum grade of D or MTH 140 with a minimum grade of D or MTH 229 with a minimum grade of D or MTH 229H with a minimum grade of D or MTH 140H with a minimum grade of D or (STA 150 with a minimum grade of D and STA 150L with a minimum grade of D) or (STA 150B with a minimum grade of D and STA 150L with a minimum grade of D).
Attributes: Statistics
Grade Mode: Normal Grading Mode

MGT 280 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

MGT 318 Management Analytics **3 Credit hours**
The course will provide a framework for both the analytical tools and specific managerial problems, emphasizing model development and the use of tools to manage, analyze, and visualize data.
Pre-req: MTH 121B with a minimum grade of D or MTH 123 with a minimum grade of D or MTH 120 with a minimum grade of D or MTH 130 with a minimum grade of D or MTH 130H with a minimum grade of D or MTH 121 with a minimum grade of D or MTH 121H with a minimum grade of D or MTH 127 with a minimum grade of D or MTH 132 with a minimum grade of D or MTH 203 with a minimum grade of D or MTH 190 with a minimum grade of D or MTH 131 with a minimum grade of D or MTH 140 with a minimum grade of D or MTH 229 with a minimum grade of D or MTH 229H with a minimum grade of D or MTH 140H with a minimum grade of D or (STA 150 with a minimum grade of D and STA 150L with a minimum grade of D) or (STA 150B with a minimum grade of D and STA 150L with a minimum grade of D).
Attributes: Statistics
Grade Mode: Normal Grading Mode

MGT 320 Principles of Management **3 Credit hours**
A comprehensive survey of the fundamental principles of management applicable to all forms of organizations. The course provides the student with a basis for thinking about complex business situations in the framework of analysis of the management process. Some case analysis of management problems used. A comprehensive survey of the fundamental principles of management applicable to all forms of organizations. The course provides the student with a basis for thinking about complex business situations in the framework of analysis of the management process. Some case analysis of management problems used.
Grade Mode: Normal Grading Mode

MGT 325 Project Management **3 Credit hours**
It covers key components of project management- project integration, scope, and time management; cost analysis, quality control, human resource considerations; risk management; procurement and contract management; and planning and scheduling.
Pre-req: MGT 218 with a minimum grade of D or STA 225 with a minimum grade of D or MTH 225 with a minimum grade of D or MGT 318 with a minimum grade of D or IST 130 with a minimum grade of D or EDF 417 with a minimum grade of D or PSY 223 with a minimum grade of D or SOC 345 with a minimum grade of D.
Grade Mode: Normal Grading Mode

MGT 335 Hospitality & Tourism Mgt **3 Credit hours**
An introduction to the hospitality industry, emerging trends and various management functions related to it.
Grade Mode: Normal Grading Mode

MGT 348 Aviation Management Safety **3 Credit hours**
This course provides students with a comprehensive coverage of aviation safety and security. The course examines topics related to the latest procedures, flight technologies, challenges, and accident statistics.
Grade Mode: Normal Grading Mode

MGT 350 Health Care Management **3 Credit hours**
An introduction to the management of health care organizations. An introduction to the management of health care organizations.
Pre-req: MGT 320 with a minimum grade of D.
Grade Mode: Normal Grading Mode

MGT 354 Health Care Delivery Systems **3 Credit hours**
An examination of the various private and public sector health care delivery systems currently management. An examination of the various private and public sector health care delivery systems currently management.
Pre-req: MGT 350 with a minimum grade of D.
Grade Mode: Normal Grading Mode

MGT 355 Health Care Prods & Services **3 Credit hours**
Application of business principles as they apply to the management of health care products and services in today's health care environment.
Pre-req: MGT 350 with a minimum grade of D.
Grade Mode: Normal Grading Mode

MGT 370 Energy Management Principles **3 Credit hours**
A managerial perspective of regional, national and international energy issues. Course provides an objective assessment into the projections, limitations, costs, and tradeoffs associated with conventional and alternative sources of energy.
Pre-req: MGT 320 with a minimum grade of D.
Grade Mode: Normal Grading Mode

MGT 380 Principles of Renewable Energy **3 Credit hours**
An introduction to renewable energy management, markets, and sustainable business solutions. Nuclear, hydro, solar, wind, geothermal, biomass and biofuel sectors will be evaluated for their economic viability and business profitability.
Pre-req: MGT 320 with a minimum grade of D.
Grade Mode: Normal Grading Mode

MGT 419 Business & Society **3 Credit hours**
An examination of the manager's social and environmental responsibilities to his employees, customers, and the general public, and other external factors which management must be cognizant of in modern society. An examination of the manager's social and environmental responsibilities to his employees, customers, and the general public, and other external factors which management must be cognizant of in modern society.
Pre-req: MGT 320 with a minimum grade of D.
Attributes: Capstone Course
Grade Mode: Normal Grading Mode

MGT 420 Operations Management **3 Credit hours**
Management of operation systems including system design, implementation and control. Analysis of the system in the areas of product, process, material quality, and facilities management. Topics include breakeven analysis, inventory models, transportation models, network analysis. Management of operation systems including system design, implementation and control. Analysis of the system in the areas of product, process, material quality, and facilities management. Topics include breakeven analysis, inventory models, transportation models, network analysis.
Pre-req: (MGT 218 with a minimum grade of D or STA 225 with a minimum grade of D or MTH 225 with a minimum grade of D or MGT 318 with a minimum grade of D or IST 130 with a minimum grade of D or EDF 417 with a minimum grade of D or PSY 223 with a minimum grade of D or SOC 345 with a minimum grade of D).
Grade Mode: Normal Grading Mode

MGT 421 Supply Chain Sustainability **3 Credit hours**
Understanding the value, issues and trends regarding sustainability in modern, complex and global supply chains and business practices, by appreciating the concepts of sustainability, circular economy, and supply chain processes.
Pre-req: MGT 218 with a minimum grade of D or STA 225 with a minimum grade of D or MTH 225 with a minimum grade of D or MGT 318 with a minimum grade of D or IST 130 with a minimum grade of D or EDF 417 with a minimum grade of D or PSY 223 with a minimum grade of D or SOC 345 with a minimum grade of D.
Grade Mode: Normal Grading Mode

MGT 422 Organizational Behavior **3 Credit hours**
An interdisciplinary examination of the nature of individuals, groups and organizations and organizations and their interactions. An interdisciplinary examination of the nature of individuals, groups and organizations and organizations and their interactions.
Pre-req: MGT 320 with a minimum grade of D.
Grade Mode: Normal Grading Mode

MGT 423 Organizational Development **3 Credit hours**
An examination of the dynamics of change within organizations. The course will examine the cause of resistance to change and purposeful methodologies for implementing change including behavioral, technological, and structural in attempt to describe a holistic approach. An examination of the dynamics of change within organ- izations. The course will examine the cause of resistance to change and purposeful methodologies for implementing change including behavioral, technological, and structural in an attempt to describe a holistic approach.
Pre-req: MGT 320 with a minimum grade of D.
Attributes: Capstone Course
Grade Mode: Normal Grading Mode

MGT 424 Human Resource Management **3 Credit hours**
Analyze the role of Human Resource Managers within strategic decision making. Topics include: selection, training, assessment, compensation and employee relations. Current topics also covered. Analyze the role of Human Resource Managers within strategic decision making. Topics include: selection, training, assessment, compensation and employee relations. Current topics also covered.
Pre-req: MGT 320 with a minimum grade of D.
Grade Mode: Normal Grading Mode

MGT 425 Industrial Relations **3 Credit hours**
A study of labor-management relations in union and non-union settings. Topics include: conflict resolution techniques, negotiation strategy, partitipative management, and labor theory. Labor laws and history are reviewed. A study of labor-management relations in union and non-union settings. Topics include: conflict resolution techniques, negotiation strategy, partitipative management, and labor theory. Labor laws and history are reviewed.
Pre-req: MGT 320 with a minimum grade of D.
Grade Mode: Normal Grading Mode

MGT 428 Negotiations **3 Credit hours**
The theory and practice of negotiation in organizational settings including negotiation strategies and their impact on the outcomes achieved. Students will build negotiation skills through experintial exercises and cases. The theory and practice of negotiation in organizational settings including negotiation strategies and their impact on the outcomes achieved. Students will build negotiation skills through experintial exercises and cases.
Pre-req: MGT 320 with a minimum grade of D.
Grade Mode: Normal Grading Mode

MGT 429 Leadership **3 Credit hours**
Leadership styles, principles, models, and practical applications including: motivation and communication, teamwork, use of power, development of trust, effective group facilitation, negotiation and persuasion, effective change, and ethics. Leadership styles, principles, models, and practical applications including: motivation and communication, teamwork, use of power, development of trust, effective group facilitation, negotiation and persuasion, effective change, and ethics.
Pre-req: MGT 320 with a minimum grade of D.
Grade Mode: Normal Grading Mode

MGT 430 Diversity Issues in Business **3 Credit hours**
Students will gain insights into primary and secondary dimensions of diversity, and be able to describe pertinent ethical, legal, media and marketing issues. They will improve organizations' management of diversity
Pre-req: MGT 320 with a minimum grade of D.
Grade Mode: Normal Grading Mode

MGT 445 International Management **3 Credit hours**
Focuses on the economic, political, legal, technological, and cultural issues faced by international managers. Topics include developing cultural awareness, implementing global strategy, and competing with ethical integrity. Focuses on the economic, political, legal, technological, and cultural issues faced by international managers. Topics include developing cultural awareness, implementing global strategy, and competing with ethical integrity.
Pre-req: MGT 320 with a minimum grade of D.
Attributes: International
Grade Mode: Normal Grading Mode

MGT 446 Green Management **3 Credit hours**
Focuses on environmental sustainability and the practices involved in managing a green business, including: eco-advantage strategies, supply chains, preventing the failure of eco-initiatives and sustained competitive advantage. Focuses on environmental sustainability and the practices involved in managing a green business, including: eco-advantage strategies, supply chains, preventing the failure of eco-initiatives and sustained competitive advantage.
Pre-req: MGT 320 with a minimum grade of D.
Grade Mode: Normal Grading Mode

MGT 455 Hlth Care Policy Seminar **3 Credit hours**
An integrative discussion course on current problems and future policies and strategies as they are related to facilities planning and utilization, staffing and organization and providing quality health care to community.
Pre-req: MGT 350 with a minimum grade of D.
Attributes: Capstone Course
Grade Mode: Normal Grading Mode

MGT 458 Energy Management Strategy **3 Credit hours**
Comprehensive coverage of all facets of the management of energy sources, production, risks, and markets. Provides managerial tools necessary to increase production capabilities and maneuver within the transforming energy sectors.
Pre-req: MGT 320 with a minimum grade of D.
Attributes: Capstone Course
Grade Mode: Normal Grading Mode

MGT 459 Aviation Management Capstone **3 Credit hours**
This course culminates the student's entire learning experience in the Aviation Management major. It involves case discussions, readings, and simulations. Students will complete a comprehensive, semester-long project.
Pre-req: AVSC 231 with a minimum grade of D and AVSC 315 with a minimum grade of D and AVSC 410 with a minimum grade of D and MGT 348 with a minimum grade of D.
Attributes: Capstone Course
Grade Mode: Normal Grading Mode

MGT 460 Strategic Management **3 Credit hours**
The integrative capstone course concerning theory and practice of top managements plans to attain outcomes consistent wit the organization's mission and goals including strategy formulation, implementation and control. The integrative capstone course concerning theory and practice of top managements plans to attain outcomes consistent wit the organization's mission and goals including strategy formulation, implementation and control.
Pre-req: MGT 320 with a minimum grade of D and MKT 340 with a minimum grade of D and LE 207 with a minimum grade of D and (MGT 218 with a minimum grade of D or MGT 318 with a minimum grade of D or MTH 225 with a minimum grade of D or STA 225 with a minimum grade of D or IST 130 with a minimum grade of D or EDF 417 with a minimum grade of D or PSY 223 with a minimum grade of D or SOC 345 with a minimum grade of D) and FIN 323 with a minimum grade of D and ENG 204 with a minimum grade of D and ACC 215 with a minimum grade of D and ACC 216 with a minimum grade of D and (CMM 207 with a minimum grade of D or CMM 103 with a minimum grade of D or CMM 104H with a minimum grade of D) and (ECN 250 with a minimum grade of D or ECN 200 with a minimum grade of D) and ECN 253 with a minimum grade of D and MIS 200 with a minimum grade of D and MIS 290 with a minimum grade of D.
Attributes: Capstone Course
Grade Mode: Normal Grading Mode

MGT 461 New Venture Dynamics **3 Credit hours**
Managing small enterprises, as opposed to large corporations. In cooperation with the Small Business Administration. Students work as trainee management consultants with small businesses in the area.
Pre-req: MGT 320 with a minimum grade of D.
Grade Mode: Normal Grading Mode

MGT 471 Prac Health Care Mgt I **4 Credit hours**
Field experience in management of Health Care Organizations. Field experience in management of Health Care Organizations.
Grade Mode: Credit/No Credit Grade Only

MGT 478 Import Export Management **3 Credit hours**
Students will learn the general and specific information relevant to conducting export business from the United States to different parts of the world.
Grade Mode: Normal Grading Mode

MGT 480 Special Topics **1-4 Credit hours**
Study of an advanced topic not normally covered in other courses. Management majors only, with permission of department chairman. Study of an advanced topic not normally covered in other courses. Management majors only, with permission of depart- ment chairman.
Grade Mode: Normal Grading Mode

MGT 485 Independent Study **1-4 Credit hours**
Grade Mode: Normal Grading Mode

MGT 490 Internship **3-12 Credit hours**
A supervised internship in which the student works for a business firm/agency to gain practical experience in the student's major. The program of work and study will be defined in advance and the student performance will be evaluated. A supervised internship in which the student works for a business firm/agency to gain practical experience in the student's major. The program of work and study will be defined in advance and the student performance will be evaluated.
Grade Mode: Credit/No Credit Grade Only

Management Information Systems (MIS)

- General Education Course

MIS 200 Bus Computer Applications **3 Credit hours**
An introduction to computer applications in business, including spreadsheets, databases, presentation and word processing. Students also learn to integrate spreadsheet and database outputs into presentations and reports. An introduction to computer applications in business, including spreadsheets, databases, presentation and word processing. Students also learn to integrate spreadsheet and database outputs into presentations and reports.
Grade Mode: Normal Grading Mode

MIS 290 Prin Management Info Systems **3 Credit hours**
Introduction to the development, selection, use, and impact of information and communication technologies and systems in modern organizations and enterprises.
Grade Mode: Normal Grading Mode

MIS 300 Intro to Business Programming **3 Credit hours**
Introduction to programming in a business context, emphasizing problem solving using basic programming logic and data structures, interface concepts, file and database access, and selection and use of development tools. (PR: MIS 290)
Pre-req: MIS 290 with a minimum grade of D.
Grade Mode: Normal Grading Mode

MIS 310 Bus Sys Analysis & Design **3 Credit hours**
The course covers business application systems development, behavioral considerations in the: development process, feasibility assessment, requirement analysis, and communication skills. Emphasis on prototyping and fourth generation languages. (PR: Passing the COB Computer Literacy Test and any programming language) The course covers business application systems development, behavioral considerations in the: development process, feasibility assessment, requirement analysis, and communication skills. Emphasis on prototyping and fourth generation languages. (PR: Passing the COB Computer Literacy Test and any programming language)
Grade Mode: Normal Grading Mode

MIS 333 Bus Telecomm Sys **3 Credit hours**
To understand the applications, concepts and management of telecommunications. Students will be exposed to network components and network operations. Emphasis will be on strategic business applications of telecommunication systems.
Grade Mode: Normal Grading Mode

MIS 340 Intro to Database Mgt Systems **3 Credit hours**
Introduction to enterprise data administration emphasizing database environment and architecture, relational model and languages, database requirements, and modeling. Introduction to the use of a database managment system.
Grade Mode: Normal Grading Mode

MIS 360 Intro to Bus Intel & Analytics **3 Credit hours**
Introduction to the field of business intelligence & analytics, introducing the use of big data, statistical, quantitative analysis, exploratory and predictive models, and fact-based management to drive decisions and actions.
Pre-req: MGT 218 with a minimum grade of D and MIS 290 with a minimum grade of D.
Co-req: MIS 340
Grade Mode: Normal Grading Mode

MIS 400 MIS Practicum **1-3 Credit hours**
Students explore career interests, while applying classroom knowledge and skills, gaining a clearer sense of what they still need to learn and an opportunity to build professional networks.
Grade Mode: Normal Grading Mode

MIS 420 Info Security Management **3 Credit hours**
A study of information security risk analysis and assessment; threats to information security; defense measures; and legal, privacy, and ethical issues in information security.
Grade Mode: Normal Grading Mode

MIS 470 Business Sys Proj Mgt **3 Credit hours**
Project management for information and process-oriented organizational systems. Tools, techniques, feasibility, post-project evaluation, information and knowledge exchange, change and vendor management. (PR:290/permission of COB)
Grade Mode: Normal Grading Mode

MIS 475 Strat Management Info Systems **3 Credit hours**
A capstone course for management majors. Emphasis will be on creating and using information systems to give businesses a competitive advantage and provide strategic support for all levels of management.
Pre-req: MIS 470 with a minimum grade of D.
Attributes: Capstone Course
Grade Mode: Normal Grading Mode

MIS 480 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

MIS 485 Independent Study **1-4 Credit hours**
Grade Mode: Normal Grading Mode

MIS 490 Internship **3-12 Credit hours**
Grade Mode: Credit/No Credit Grade Only

Marketing (MKT)

- General Education Course

MKT 231 Principles of Selling **3 Credit hours**
Elements of professional personal selling from prospecting through follow-up designed for individuals preparing for a career in sales/marketing and those desiring skills to influence, persuade, or lead others. Elements of professional personal selling from prospecting through follow-up designed for individuals preparing for a career in sales/marketing and those desiring skills to influence, persuade, or lead others.
Grade Mode: Normal Grading Mode

MKT 340 MKT Concepts and Applications **3 Credit hours**
Introduction to marketing as the central activity of organizations in creating exchanges with customers. Focuses on strategies related to environmental opportunities and threats using product, price, promotion and distribution tools. Introduction to marketing as the central activity of organizations in creating exchanges with customers. Focuses on strategies related to environmental opportunities and threats using product, price, promotion and distribution tools.
Grade Mode: Normal Grading Mode

MKT 341 Integrated MKT Communications **3 Credit hours**
A managerial analysis of the principles and practices of the promotion mix from the viewpoints of the consumer, the firm, the industry, and the macroenvironment. A managerial analysis of the principles and practices of the promotion mix from the viewpoints of the consumer, the firm, the industry, and the macroenvironment.
Pre-req: MKT 340 with a minimum grade of D.
Grade Mode: Normal Grading Mode

MKT 344 Retail Management **3 Credit hours**
Management of retail establishments including successful retail merchandising, stock control, buying, pricing, marketing, advertising, promotion, displaying, credit, and selling of goods and/or services. Management of retail establishments including successful retail merchandising, stock control, buying, pricing, marketing, advertising, promotion, displaying, credit, and selling of goods and/or services.
Pre-req: MKT 340 with a minimum grade of D.
Grade Mode: Normal Grading Mode

MKT 345 Hospitality & Tour Marketing **3 Credit hours**
Acquaint students with the marketing functions within the hospitality and tourism industry to develop effective marketing plans and gain an understanding of hospitality and tourism consumer behavior.
Grade Mode: Normal Grading Mode

MKT 349 Prin Domestic Transport **3 Credit hours**
Introduction to the history, economics, and regulation of U.S. domestic motor, rail, air and pipline transportation. Particular emphasis is placed upon the significance of transporation to the development of the United States and today's economy. Introduction to the history, economics, and regulation of U.S. domestic motor, rail, air and pipline transportation. Particular emphasis is placed upon the significance of transporation to the development of the United States and today's economy.
Grade Mode: Normal Grading Mode

MKT 350 Supply Chain Logistics **3 Credit hours**
A supply chain approach is used to explain activities that create an efficient flow of products from point of origin to point of consumption in order to satisfy customer requirements. A supply chain approach is used to explain activities that create an efficient flow of products from point of origin to point of consumption in order to satisfy customer requirements.
Grade Mode: Normal Grading Mode

MKT 371 International Marketing **3 Credit hours**
A study of marketing across national borders. Emphasis is placed on international environments, methods of entry, and marketing mix development, including the conflict between standardization and adaptation.
Pre-req: MKT 340 with a minimum grade of D.
Attributes: International
Grade Mode: Normal Grading Mode

MKT 375 Business to Business Marketing **3 Credit hours**
Study of marketing products and services to business, institutions and government. Focus on organizational buying, market planning and development of marketing mix. (Prerequisite: MKT 340) Study of marketing products and services to business, institutions and government. Focus on organizational buying, market planning and development of marketing mix. (Prerequisite: MKT 340)
Grade Mode: Normal Grading Mode

MKT 400 Social Media Marketing **3 Credit hours**
Social media as a marketing function: Students will gain the knowledge and skills necessary to engage and service the customer and explore the strategic use of current social media platforms.
Pre-req: MKT 340 with a minimum grade of D.
Grade Mode: Normal Grading Mode

MKT 425 Marketing Analytics **3 Credit hours**
Students analyze data to make marketing decisions regarding segmentation and target market selection, product positioning, brand choice, customer relationship management, pricing, customer lifetime value, and other areas.
Pre-req: (MGT 218 with a minimum grade of D or STA 225 with a minimum grade of D or MTH 225 with a minimum grade of D or MGT 318 with a minimum grade of D or IST 130 with a minimum grade of D or EDF 417 with a minimum grade of D or PSY 223 with a minimum grade of D or SOC 345 with a minimum grade of D) and MKT 340 with a minimum grade of D.
Grade Mode: Normal Grading Mode

MKT 430 Digital Marketing **3 Credit hours**
Introduction to Google AdWords, Google Analytics, search engine optimization (SEO), website design, content and email marketing.
Pre-req: MKT 340 with a minimum grade of D.
Grade Mode: Normal Grading Mode

MKT 435 Internet Marketing **3 Credit hours**
Introduction to Internet as a sales and marketing tool, web page development, strategic planning for e-commerce, non-Internet functions which support e-commerce, and integration of e-commerce into conventional MKT mix. Introduction to Internet as a sales and marketing tool, web page development, strategic planning for e-commerce, non-Internet functions which support e-commerce, and integration of e-commerce into conventional MKT mix.
Pre-req: MKT 340 with a minimum grade of D.
Grade Mode: Normal Grading Mode

MKT 437 Consumer Behavior **3 Credit hours**
Acquaints the student with individual and group behavior as it pertains to consumer activity. Theories and findings in the behavioral sciences, as well as those set forth by the marketing scholars, are examined so as to understand the behavioral patterns of consumers. Cultural, social, and psychological influences are considered, in addition to the traditional economic interpretations. The stress of the course is on incorporating these data into the managing of the marketing effort. Acquaints the student with individual and group behavior as it pertains to consumer activity. Theories and findings in the behavioral sciences, as well as those set forth by the marketing scholars, are examined so as to understand the behavioral patterns of consumers. Cultural, social, and psychological influences are considered, in addition to the traditional economic interpretations. The stress of the course is on incorporating these data into the managing of the marketing effort.
Grade Mode: Normal Grading Mode

MKT 440 Sales Management **3 Credit hours**
An exploration of the duties and activities of sales managers. Topics typically include planning and forecasting as well as organizing, staffing, training, compensating, motivating, and evaluating the sales force. (PR: MKT 340) An exploration of the duties and activities of sales managers. Topics typically include planning and forecasting as well as organizing, staffing, training, compensating, motivating, and evaluating the sales force. (PR: MKT 340)
Pre-req: MKT 340 with a minimum grade of D.
Grade Mode: Normal Grading Mode

MKT 442 Market Research **3 Credit hours**
Scope and importance of market and distribution research; product, package, brand analysis and social impact; consumer, industrial and institutional surveys, quantitative and qualitative analysis of market data; situation analysis, sampling, tabulation and presentation methods. Scope and importance of market and distribution research; product, package, brand analysis and social impact; con- sumer, industrial and institutional surveys, quantitative and qualitative analysis of market data; situation analysis, sampling, tabulation and presentation methods.
Pre-req: MKT 340 with a minimum grade of D and (MGT 218 with a minimum grade of D or MTH 225 with a minimum grade of D or STA 225 with a minimum grade of D or IST 130 with a minimum grade of D or EDF 417 with a minimum grade of D or PSY 223 with a minimum grade of D or SOC 345 with a minimum grade of D).
Grade Mode: Normal Grading Mode

MKT 445 Services Marketing **3 Credit hours**
Examination of the marketing of services offered by business and non-business organizations with particular emphasis on the unique aspect of the services marketing mix and the implementation of service strategy. (Prerequisite: MKT 340) Examination of the marketing of services offered by business and non-business organizations with particular emphasis on the unique aspect of the services marketing mix and the implementation of service strategy. (Prerequisite: MKT 340)
Grade Mode: Normal Grading Mode

MKT 465 Strategic Marketing **3 Credit hours**
Capstone integrated study of marketing for decision making. Emphasis on the application of marketing principles and concepts for the purpose of developing, analyzing, and mofifying marketing plans and strategy. (PR: MKT 340 and Senior Standing). Capstone integrated study of marketing for decision making. Emphasis on the application of marketing principles and concepts for the purpose of developing, analyzing, and mof- ifying marketing plans and strategy. (PR: MKT 340 and Senior Standing).
Pre-req: MKT 231 with a minimum grade of D and MKT 437 with a minimum grade of D and MKT 442 with a minimum grade of D.
Attributes: Capstone Course
Grade Mode: Normal Grading Mode

MKT 480 Special Topics **1-4 Credit hours**
Study of an advanced topic not normally covered in other courses. Marketing majors only, with permission of department chairman. Study of an advanced topic not normally covered in other courses. Marketing majors only, with permission of depart- ment chairman.
Grade Mode: Normal Grading Mode

MKT 485 Independent Study **1-4 Credit hours**
Grade Mode: Normal Grading Mode

MKT 490 Internship **3-12 Credit hours**
A supervised experience in which the student works for a business firm/agency to gain practical experience by completing a defined work program. Student performance is evaluated. This course may not be used as a marketing elective.
Grade Mode: Credit/No Credit Grade Only

Mathematics (MTH)

- General Education Course

MTH 102 Prep for College Math B **4 Credit hours**
A mastery-based course that will prepare students for college algebra.
Grade Mode: Normal Grading Mode

MTH 102B Abr Prep for College Math B **1 Credit hour**
An abridged mastery-based course that will prepare students for College Algebra.
Pre-req: MTH 098 with a minimum grade of CR or MTH 100 or MTH 121B or MTH 121 or Placement Math After SP17 with a score of 100.
Grade Mode: Normal Grading Mode

MTH 121 Concepts and Applications (CT) **3 Credit hours**
Critical thinking course for non-science majors that develops quantitative reasoning skills. Topics include logical thinking, problem-solving, linear modeling, beginning statistics and probability, exponential and logarithmic models, formula use, and financial concepts. Critical thinking course for non-science majors that develops quantitative reasoning skills. Topics include logical thinking, problem-solving, linear modeling, beginning statistics and probability, exponential and logarithmic models, formula use, and financial concepts.
Pre-req: ACT Math with a score of 19 or SAT Mathematics Before Mar. 16 with a score of 460 or MTH 0XX or Placement Math with a score of 100 or Placement Math After SP17 with a score of 101 or Placement Math SP20 with a score of 241 or Math Workshop-UC with a score of 100 or WMTH 002 with a minimum grade of C or MTH 099 with a minimum grade of CR or MTH 102 with a minimum grade of C or MTH 100 with a minimum grade of C or MTH 102B with a minimum grade of C or SAT MATH SECTION SCORE with a score of 510.
Attributes: Critical Thinking, Core II Mathematics
Grade Mode: Normal Grading Mode

MTH 121B Cncpts & Apps-Expanded (CT) **4 Credit hours**
Critical thinking course for non-science majors that develops quantitative reasoning skills. Topics include logical thinking, linear modeling, statistics and probability, exponential and logarithmic modeling, and financial concepts, with arithmetic review.
Attributes: Critical Thinking, Core II Mathematics
Grade Mode: Normal Grading Mode

MTH 121H Concepts and Applications **3 Credit hours**
Pre-req: ACT Math with a score of 23 or SAT Mathematics Before Mar. 16 with a score of 540.
Attributes: Honors
Grade Mode: Normal Grading Mode

MTH 122 Plane Trigonometry **3 Credit hours**
Definitions of circular functions; graphs of the trigonometric functions, trigonometric identities, and applications.
Pre-req: ACT Math with a score of 22 or SAT Mathematics Before Mar. 16 with a score of 520 or SAT MATH SECTION SCORE with a score of 540 or Placement Math After SP17 with a score of 103 or Placement Math SP20 with a score of 257 or MTH 127 with a minimum grade of C or MTH 130 (may be taken concurrently) with a minimum grade of C.
Concurrent PR: MTH 130
Attributes: Core II Mathematics
Grade Mode: Normal Grading Mode

MTH 127 College Algebra-Expanded **5 Credit hours**
A brief but careful review of the main techniques of algebra. Polynomials, rational, exponential, and logarithmic functions. Graphs, equations and inequalities, sequences.
Pre-req: ACT Math with a score of 17 or SAT Mathematics Before Mar. 16 with a score of 400 or SAT MATH SECTION SCORE with a score of 460 or Placement Math After SP17 with a score of 101 or Placement Math SP20 with a score of 237 or MTH 0XX or Placement Math with a score of 100 or Math Workshop-UC with a score of 100 or WMTH 002 or MTH 099 with a minimum grade of CR or MTH 102 with a minimum grade of C or MTH 102B with a minimum grade of C.
Attributes: Core II Mathematics
Grade Mode: Normal Grading Mode

MTH 130 College Algebra **3 Credit hours**
Polynomial, rational, exponential, and logarithmic functions. Graphs, equations and inequalities, sequences.
Pre-req: ACT Math with a score of 21 or SAT Mathematics Before Mar. 16 with a score of 500 or SAT MATH SECTION SCORE with a score of 530 or Placement Math After SP17 with a score of 102 or Placement Math SP20 with a score of 250.
Attributes: Core II Mathematics
Grade Mode: Normal Grading Mode

MTH 132 Precalculus with Sci Applica **5 Credit hours**
Functions used in calculus including polynomial, rational, exponential, logarithmic, and trigonometric. Systems of equations and inequalities, conic sections, polar and parametric equations, sequences and series, Binomial Theorem. Functions used in calculus including polynomial, rational, exponential, logarithmic, and trigonometric. Systems of equations and inequalities, conic sections, polar and parametric equations, sequences and series, Binomial Theorem.
Pre-req: ACT Math with a score of 24 or SAT Mathematics Before Mar. 16 with a score of 560 or SAT MATH SECTION SCORE with a score of 570 or Placement Math After SP17 with a score of 104 or Placement Math SP20 with a score of 263 or MTH 127 with a minimum grade of C or MTH 130 with a minimum grade of C.
Attributes: Core II Mathematics
Grade Mode: Normal Grading Mode

MTH 140 Applied Calculus **3 Credit hours**
A brief survey of calculus including both differentiation and integration with applications.
Pre-req: ACT Math with a score of 24 or SAT Mathematics Before Mar. 16 with a score of 560 or SAT MATH SECTION SCORE with a score of 570 or Placement Math After SP17 with a score of 104 or Placement Math SP20 with a score of 263 or MTH 127 with a minimum grade of C or MTH 130E with a minimum grade of C or MTH 130 with a minimum grade of C or MTH 130H with a minimum grade of C or MTH 132 with a minimum grade of C.
Attributes: Core II Mathematics
Grade Mode: Normal Grading Mode

MTH 140H Applied Calculus Honors **3 Credit hours**
A brief survey of calculus including both differentiation and integration with applications. This honors course will also introduce topics from differential equations with applications.
Pre-req: ACT Math with a score of 24 or SAT Mathematics Before Mar. 16 with a score of 560 or SAT MATH SECTION SCORE with a score of 570.
Attributes: Honors, Core II Mathematics
Grade Mode: Normal Grading Mode

MTH 160 Applied Math Reasoning (CT) **5 Credit hours**
A critical thinking course in applied mathematical reasoning. Topics include logic, problem solving, linear modeling, beginning statistics and probability, exponential and logarithmic modeling, formula use.
Pre-req: SAT Mathematics Before Mar. 16 with a score of 400 or ACT Math with a score of 17 or SAT MATH SECTION SCORE with a score of 460 or Placement Math After SP17 with a score of 101 or Placement Math SP20 with a score of 237 or MTH 099 with a minimum grade of CR or MTH 102 with a minimum grade of C or MTH 102B with a minimum grade of C or MTH 127 with a minimum grade of C.
Attributes: Critical Thinking, Core II Mathematics
Grade Mode: Normal Grading Mode

MTH 220 Discrete Structures **3 Credit hours**
Sets, relations, directed and undirected graphs, monoids, groups, lattices, Boolean algebra, and propositional logic.
Pre-req: ACT Math with a score of 27 or SAT Mathematics Before Mar. 16 with a score of 610 or SAT MATH SECTION SCORE with a score of 630 or Placement Math After SP17 with a score of 105 or Placement Math SP20 with a score of 276 or MTH 132 with a minimum grade of C or MTH 140 with a minimum grade of C or MTH 229 with a minimum grade of C or MTH 229H with a minimum grade of C.
Attributes: Core II Mathematics
Grade Mode: Normal Grading Mode

MTH 229 Calculus/Analytic Geom I (CT) **5 Credit hours**
An introduction to calculus and analytic geometry, emphasizing critical thinking. Limits, derivatives, and integrals of the elementary functions of one variable, including transcendental functions.
Pre-req: ACT Math with a score of 27 or SAT Mathematics Before Mar. 16 with a score of 610 or SAT MATH SECTION SCORE with a score of 630 or Placement Math After SP17 with a score of 105 or Placement Math SP20 with a score of 276 or MTH 132 with a minimum grade of C.
Attributes: Critical Thinking, Core II Mathematics
Grade Mode: Normal Grading Mode

MTH 229H Calculus I Honors (CT) **5 Credit hours**
An introduction to calculus and analytic geometry for honors students, emphasizing critical thinking. Limits, derivatives, and integrals of the elementary functions of one variable, including transcendental functions.
Pre-req: ACT Math with a score of 27 or SAT Mathematics Before Mar. 16 with a score of 610 or SAT MATH SECTION SCORE with a score of 630.
Attributes: Critical Thinking, Core II Mathematics
Grade Mode: Normal Grading Mode

MTH 230 Calculus/Analytic Geom II **4 Credit hours**
A study of the conics and transcendental functions, techniques of integration, improper integrals, indeterminate forms and infinite series.
Pre-req: MTH 229 with a minimum grade of C or MTH 229H with a minimum grade of C.
Attributes: Core II Mathematics
Grade Mode: Normal Grading Mode

MTH 231 Calculus/Analytic Geom III **4 Credit hours**
Analytic geometry of two and three dimensions, partial differentiation, and multiple integrals. Analytic geometry of two and three dimensions, partial dif- ferentiation, and multiple integrals.
Pre-req: MTH 230 with a minimum grade of C.
Attributes: Core II Mathematics
Grade Mode: Normal Grading Mode

MTH 300 Intro to Higher Math **4 Credit hours**
A transition between elementary calculus and higher mathematics with emphasis on techniques of proofs.
Pre-req: MTH 230 with a minimum grade of C.
Attributes: Mathematics
Grade Mode: Normal Grading Mode

MTH 329 Elementary Linear Algebra **3 Credit hours**
Systems of linear equations, matrices and determinants, vector spaces, linear transformations, eigenvalues, eigenvectors, and applications. Systems of linear equations, matrices and determinants, vector spaces, linear transformations, eigenvalues, eigenvectors, and applications.
Pre-req: MTH 229 with a minimum grade of C or MTH 229H with a minimum grade of C.
Attributes: Mathematics
Grade Mode: Normal Grading Mode

MTH 331 Linear Algebra **4 Credit hours**
Vector spaces, matrices and determinants, linear transformations, eigenvalues and eigenvectors, and applications.
Pre-req: MTH 300 (may be taken concurrently) with a minimum grade of C.
Concurrent PR: MTH 300
Attributes: Mathematics
Grade Mode: Normal Grading Mode

MTH 335 Ordinary Diff Equations **3 Credit hours**
A study of differential equations, their solutions, and applications to physical systems, emphasizing closed-form solving methods. Laplace transforms, orthogonal functions, approximation and numerical methods with applications.
Pre-req: MTH 230 with a minimum grade of C.
Attributes: Mathematics
Grade Mode: Normal Grading Mode

MTH 360 Intro to Complex Variables **3 Credit hours**
An introductory survey of complex numbers, analytic functions, properties of elementary functions, integrals, series, residues and poles, with a focus on practical applications.
Pre-req: MTH 231 with a minimum grade of C.
Attributes: Mathematics
Grade Mode: Normal Grading Mode

MTH 361 Vector Calculus **3 Credit hours**
A course in n-dimensional calculus: the derivative, the integral, and applications. Coordinate-free methods are emphasized.
Pre-req: MTH 231 with a minimum grade of C.
Attributes: Mathematics
Grade Mode: Normal Grading Mode

MTH 400 Structure of Algebra **3 Credit hours**
Emphasis on the language of Modern Elementary Algebra. Recommended for pre-service elementary teachers and for elementary and secondary in-service teachers. May not be used for either a degree offered by the Department of Mathematics or for a 7-9 or 7-12 mathematics specialization. Emphasis on the language of Modern Elementary Algebra. Recommended for pre-service elementary teachers and for elementary and secondary in-service teachers. May not be used for either a degree offered by the Department of Mathematics or for a 7-9 or 7-12 mathematics specialization.
Pre-req: MTH 130 with a minimum grade of C.
Attributes: Mathematics
Grade Mode: Normal Grading Mode

MTH 401 Structure Modern Geometry **3 Credit hours**
Informal development of geometry. Recommended for preservice elementary teachers and for elementary and secondary inservice teachers. May not be used for either a degree offered by the Department of Mathematics or for a 7-9 or 7-12 mathematics specialization.
Pre-req: MTH 130 with a minimum grade of C or MTH 127 with a minimum grade of C.
Attributes: Mathematics
Grade Mode: Normal Grading Mode

MTH 404 Math Methods and Materials **3 Credit hours**
Content and content-specific pedagogy for secondary mathematics education majors. Content and content-specific pedagogy for secondary mathematics education majors.
Pre-req: Admitted to Teacher ED with a score of 5.
Co-req: CI 470
Attributes: Mathematics
Grade Mode: Normal Grading Mode

MTH 405 History of Mathematics **3 Credit hours**
A study of the history of mathematics from the time of the ancient Greeks to the end of the nineteenth century. A study of the history of mathematics from the time of the ancient Greeks to the end of the nineteenth century.
Pre-req: MTH 300 with a minimum grade of C.
Attributes: Mathematics
Grade Mode: Normal Grading Mode

MTH 411 Mathematical Modeling **3 Credit hours**
Students work in teams to construct mathematical models of various real-world situations. Problems to be modeled are drawn from diverse areas of application and use a wide range of undergraduate mathematics. Students work in teams to construct mathematical models of various real-world situations. Problems to be modeled are drawn from diverse areas of application and use a wide range of undergraduate mathematics.
Pre-req: MTH 231 with a minimum grade of C.
Attributes: Mathematics
Grade Mode: Normal Grading Mode

MTH 415 Partial Differential Equations **3 Credit hours**
Differential equations. Heat Equation, Laplace's Equation, separation of variables, Fourier series, vibrating strings, eigenvalue problems, finite differences, Bessel functions, Legendre polynomials. Differential equations. Heat Equation, Laplace's Equation, separation of variables, Fourier series, vibrating strings, eigenvalue problems, finite differences, Bessel functions, Legendre polynomials.
Pre-req: MTH 331 with a minimum grade of C and MTH 335 with a minimum grade of C.
Attributes: Mathematics
Grade Mode: Normal Grading Mode

MTH 416 Advanced Differential Equation **3 Credit hours**
Differential equations are studied qualitatively. Topics include the existence and uniqueness of solutions and the behavior of solutions including stability of nonlinear systems, periodic solutions, and approximation using pertubation methods. Differential equations are studied qualitatively. Topics include the existence and uniqueness of solutions and the behavior of solutions including stability of nonlinear systems, periodic solutions, and approximation using pertubation methods.
Pre-req: MTH 300 and MTH 335.
Attributes: Mathematics
Grade Mode: Normal Grading Mode

MTH 427 Advanced Calculus I **3 Credit hours**
The number system, limits, sequences, partial differentiation with applications, maxima and minima of functions of several variables. Theory of definite integrals, multiple integrals, line and surface integrals, improper integrals, infinite series.
Pre-req: MTH 231 with a minimum grade of C and MTH 300 with a minimum grade of C.
Attributes: Mathematics
Grade Mode: Normal Grading Mode

MTH 428 Advanced Calculus II **3 Credit hours**
The number system, limits, sequences, partial differentiation with applications, maxima and minima of functions of several variables. Theory of definite integrals, multiple integrals, line and surface integrals, improper integrals, infinite series.
Pre-req: MTH 427 with a minimum grade of C.
Attributes: Mathematics
Grade Mode: Normal Grading Mode

MTH 430 Topology I **3 Credit hours**
First course in topology. Basics of point-set topology: metric and topological spaces, continuity, connectedness, compactness, products, quotients. Surfaces and simplicial complexes, Euler characteristics.
Pre-req: MTH 300 with a minimum grade of C.
Attributes: Mathematics
Grade Mode: Normal Grading Mode

MTH 431 Topology II **3 Credit hours**
First course in algebraic topology. Homotopy, fundamental group, simplicial homology.
Pre-req: MTH 430 with a minimum grade of C and MTH 450 with a minimum grade of C.
Attributes: Mathematics
Grade Mode: Normal Grading Mode

MTH 440 Graph Th and Combinatorics **3 Credit hours**
This course is designed to introduce students in mathematical sciences to the theorems, techniques, and applications of graph theory and combinatorics. This course is designed to introduce students in mathematical sciences to the theorems, techniques, and applications of graph theory and combinatorics.
Pre-req: MTH 300 with a minimum grade of C.
Attributes: Mathematics
Grade Mode: Normal Grading Mode

MTH 442 Numerical Linear Algebra **3 Credit hours**
Direct and iterative methods for numerical solution of linear systems of equations. Eigenvalues and eigenvectors. Error Analysis and norms. Related topics.
Pre-req: MTH 331 with a minimum grade of C.
Attributes: Mathematics
Grade Mode: Normal Grading Mode

MTH 443 Numerical Analysis **3 Credit hours**
The theory and technique of numerical computation involving the difference calculus, the summation calculus, interpolation methods, solution of systems of equations, and methods of solution of ordinary differential equations.
Pre-req: MTH 331 with a minimum grade of C.
Attributes: Mathematics
Grade Mode: Normal Grading Mode

MTH 448 Modern Geometries **3 Credit hours**
Finite geometrics, basic background material for the modern development of Euclidean Geometry, other geometries. Finite geometrics, basic background material for the modern development of Euclidean Geometry, other geometries.
Pre-req: MTH 300 with a minimum grade of C.
Attributes: Mathematics
Grade Mode: Normal Grading Mode

MTH 449 Projective Geometry **3 Credit hours**
Projective Geometry using both synthetic and algebraic methods. Projective Geometry using both synthetic and algebraic methods.
Pre-req: MTH 300 with a minimum grade of C.
Attributes: Mathematics
Grade Mode: Normal Grading Mode

MTH 450 Modern Algebra I **3 Credit hours**
Structure of the abstract mathematical systems; groups, rings, fields, with illustrations and applications from number theory.
Pre-req: MTH 300 with a minimum grade of C and MTH 331 (may be taken concurrently) with a minimum grade of C.
Concurrent PR: MTH 331
Attributes: Mathematics
Grade Mode: Normal Grading Mode

MTH 452 Modern Algebra II **3 Credit hours**
Continuation of MTH 450.
Pre-req: MTH 450 with a minimum grade of C.
Attributes: Mathematics
Grade Mode: Normal Grading Mode

MTH 455 Number Theory **3 Credit hours**
A survey of some basic properties of the integers: divisibility (prime numbers, factorization, perfect numbers), congruences (modular arithmetic, linear and quadratic congruences, the Chinese Remainder Theorem), and Diophantine equations.
Pre-req: MTH 300 with a minimum grade of C.
Grade Mode: Normal Grading Mode

MTH 480 Special Topics **1-4 Credit hours**
Attributes: Mathematics, No Textbook Required
Grade Mode: Normal Grading Mode

MTH 485 Independent Study **1-4 Credit hours**
Attributes: Mathematics, No Textbook Required
Grade Mode: Normal Grading Mode

MTH 490 Internship in Mathematics **2-12 Credit hours**
A supervised internship in an area of mathematics, applied mathematics, or statistics. By permission only.
Pre-req: MTH 300 with a minimum grade of C.
Attributes: Capstone Course
Grade Mode: Normal Grading Mode

MTH 491 Senior Seminar **2 Credit hours**
Capstone experience in reading, doing writing and speaking mathematics. Student will explore topics related to a theme chosen by the instructor.
Pre-req: MTH 300 with a minimum grade of C.
Attributes: Capstone Course, Mathematics
Grade Mode: Normal Grading Mode

Mechanical Engineering (ME)

- General Education Course

ME 111 Mech Engineering Computations **3 Credit hours**
Introduction to effective problem-solving techniques used in various engineering applications. Computational tools including C and MATLAB will e covered.
Pre-req: MTH 132 (may be taken concurrently) with a minimum grade of D or MTH 229 (may be taken concurrently) with a minimum grade of D or MTH 229H (may be taken concurrently) with a minimum grade of D.
Concurrent PR: MTH 132 or MTH 229 or MTH 229H
Grade Mode: Normal Grading Mode

ME 240 Manufacturing Processes **3 Credit hours**
An introduction to manufacturing systems and strategy. A study of manufacturing processes. Measurement and quality assurance machining, welding, and casting processes. Hot and cold forming and joining processes. 1 lec and 6 lab
Pre-req: ENGR 215 with a minimum grade of D and (ENGR 102 with a minimum grade of D or CE 102 with a minimum grade of D).
Grade Mode: Normal Grading Mode

ME 245 Circuits and Instrumentation **3 Credit hours**
This course provides basic concepts of DC and AC circuit analysis, an overview of the instrument characteristics and measurement principles, and description and evaluation of sensors commonly used with instrumentation.
Pre-req: MTH 230 with a minimum grade of D and PHY 213 (may be taken concurrently) with a minimum grade of D.
Concurrent PR: PHY 213
Grade Mode: Normal Grading Mode

ME 305 Aircraft Systems **3 Credit hours**
This course covers flight dynamics; and modeling, stability, and control aspects of aircrafts.
Pre-req: ENGR 213 with a minimum grade of D.
Grade Mode: Normal Grading Mode

ME 310 Thermodynamics II **3 Credit hours**
Gas, vapor, combined power cycles, co-generation, entropy, combustion, fuel cells, and equations of state.
Pre-req: ENGR 219.
Grade Mode: Normal Grading Mode

ME 312 Flight Mechanics **3 Credit hours**
This course covers flight dynamics; modeling, stability, and control aspects of aircrafts.
Pre-req: ME 305 with a minimum grade of D.
Grade Mode: Normal Grading Mode

ME 320 Fluid Power **3 Credit hours**
This course covers physical principles of fluid power cylinders, control valves, fluid power components: compressors, pumps, valves, cylinders, and motors, fluid power circuits, troubleshooting: hydraulic, symptoms, procedures, pneumatics.
Pre-req: ENGR 214 and ENGR 216.
Grade Mode: Normal Grading Mode

ME 325 Experimental Design and Thermo **2 Credit hours**
Experimental analysis and design; probability and statistical, uncertainty, and error analysis; Experiments in fluid, heat and thermodynamics; principles and performance of measuring systems; Laboratory experience. 1 Hour for lecture and 3 hours for lab.
Pre-req: ME 360 with a minimum grade of D and ENGR 219 with a minimum grade of D and ME 350 (may be taken concurrently) with a minimum grade of D.
Concurrent PR: ME 350
Attributes: No Textbook Required
Grade Mode: Normal Grading Mode

ME 330 Manufacturing Methods/Design **3 Credit hours**
This course covers economical production by understanding the capabilities of different manufacturing processes, candidate manufacturing processes for a given part, performing manufacturabiliity evaluation at the design stage, automation, IMS.
Pre-req: ME 240 with a minimum grade of D.
Grade Mode: Normal Grading Mode

ME 335 Mech Engineering Analysis **3 Credit hours**
Covers the mathematical methods available for analysis of engineering problems, and how to apply them effectively for analytically mechanical and thermal systems.
Pre-req: MTH 231 (may be taken concurrently) with a minimum grade of D and MTH 335 with a minimum grade of D.
Concurrent PR: MTH 231
Grade Mode: Normal Grading Mode

ME 340 Machine Element Design **3 Credit hours**
Mechanical design of machine elements, static and fatigue failures, shaft systems, bearings, gears, springs, screws and fasteners.
Pre-req: ENGR 216 with a minimum grade of D.
Grade Mode: Normal Grading Mode

ME 350 Heat Transfer **3 Credit hours**
Analysis and solutions of conduction, free and forced convection, radiation heat transfer and design of heat exchangers.
Pre-req: ENGR 219 with a minimum grade of D and ME 360 with a minimum grade of D.
Grade Mode: Normal Grading Mode

ME 360 Fluid Dynamics **4 Credit hours**
Fluid statics, fluid kinematics, Bernoulli equation, momentum analysis, dimensional analysis, internal flows, fluid machinery, power and efficiency, external flows, compressible flows, differential analysis and Navier-Stokes equation, computational fluid dynamics.
Pre-req: ENGR 214 with a minimum grade of D and MTH 231 with a minimum grade of D.
Grade Mode: Normal Grading Mode

ME 410 Kinematics & Design of Machine **3 Credit hours**
The determination of the motion and forces of machines and mechanisms including rotating machinery, cams and gears. Analyze position, velocity, accelerations, static loads, and dynamic loads.
Pre-req: ENGR 214 with a minimum grade of D and ENGR 216 with a minimum grade of D.
Grade Mode: Normal Grading Mode

ME 420 Control Systems **3 Credit hours**
This course provides basic concepts of control; open and closed-loop control systems; and PLC Programming.
Pre-req: ME 245 with a minimum grade of D and ENGR 335 with a minimum grade of D.
Grade Mode: Normal Grading Mode

ME 422 Flight Stability and Control **3 Credit hours**
This course covers flight dynamics; and modeling, stability, and control aspects of aircrafts.
Pre-req: MTH 335 with a minimum grade of D and ME 312 with a minimum grade of D.
Grade Mode: Normal Grading Mode

ME 425 Mechanical Engineering Lab-II **1 Credit hour**
Engineering measurements and experimentations. Hands-on labs and data analyses in several major topics of the Mechanics of Materials theory and Theory of Machines.
Pre-req: ME 340.
Grade Mode: Normal Grading Mode

ME 430 Design of Thermal Systems **3 Credit hours**
Design and analysis of thermal systems including components selection and integrations.
Pre-req: ME 350.
Grade Mode: Normal Grading Mode

ME 435 Design of Mechanical System **3 Credit hours**
Problem solving methodology in the design, analysis, and synthesis of mechanical systems. Engineering design process involving modeling, computer simulation, concepts of optimization, robustness, reliability, sustainability.
Pre-req: ME 410 with a minimum grade of D.
Attributes: No Textbook Required
Grade Mode: Normal Grading Mode

ME 440 Design & Analysis Energy Sys **3 Credit hours**
Design characteristics and operational performance of energy systems.
Pre-req: ME 310 with a minimum grade of D.
Attributes: No Textbook Required
Grade Mode: Normal Grading Mode

ME 445 Hydraulic & Pneumatic Control **3 Credit hours**
This course covers standard symbols, pumps, control valves, assemblies, actuators, filter regulator lubricator (FRL), maintenance procedures, switching, control devices, fluid power circuits including design, application, and troubleshooting.
Pre-req: ME 245 with a minimum grade of D.
Grade Mode: Normal Grading Mode

ME 447 Engineering Analysis **4 Credit hours**
Experimental laboratory mainly from within the thermo-fluids area, concerned with fluid statics, flow, heat transfer, internal combustion engines, data acquistion, analysis, including use of computers. Principles of good experimental design.
Pre-req: MTH 335.
Grade Mode: Normal Grading Mode

ME 450 CNC and Rapid Prototyping **3 Credit hours**
This course covers CNC CAD/CAM, CNC tools, coordinate systems, CNC programming Language, CNC operation, CNC tool paths, CNC turning, G/M code reference, CNC milling work-holding, rapid prototyping, 3D printing.
Pre-req: ME 240 with a minimum grade of D.
Grade Mode: Normal Grading Mode

ME 451 Jet Propulsion **3 Credit hours**
The theories and principles of jet propulsion. Thermodynamic cycles. The mechanics and thermodynamics of combustion. Turbine engine performance characteristics. Component and cycle analysis of jet engines and turbomachinery.
Pre-req: ME 310 with a minimum grade of D.
Grade Mode: Normal Grading Mode

ME 452 Capstone Design I **1 Credit hour**
Prepares mechanical engineering students for ME 453 Capstone Design II, professional responsibility, development of effective communication skills, and learning strategies. Students begin to work on a capstone design project. (PR: ME 325, ME 350, ME 410)
Pre-req: ME 325 (may be taken concurrently) with a minimum grade of D and ME 350 (may be taken concurrently) with a minimum grade of D and ME 410 (may be taken concurrently) with a minimum grade of D.
Concurrent PR: ME 325 and ME 350 and ME 410
Grade Mode: Normal Grading Mode

ME 453 Capstone Design II **3 Credit hours**
Students utilize the engineering design process to complete a comprehensive project that addresses a real-world problem with realistic constraints in a collaborative environment.
Pre-req: ME 452 with a minimum grade of D.
Attributes: Capstone Course
Grade Mode: Normal Grading Mode

ME 455 Metallurgy **3 Credit hours**
Covers material properties and behavior of pure metals and common metal alloys. Discuss various aspects of extractive, mechanical, physical metallurgy, theory and practice of identification, selection, processing, conditioning, and testing.
Pre-req: ENGR 215 with a minimum grade of D.
Grade Mode: Normal Grading Mode

ME 456 Materials for Aerospace **3 Credit hours**
Covers the main structural materials used in aircraft in terms of their production, properties, performance, and applications.
Pre-req: ENGR 215 with a minimum grade of D.
Grade Mode: Normal Grading Mode

ME 460 Vibrations **3 Credit hours**
Modeling of vibratory motion of single and multiple degree of freedom systems; free and forced response; modal summation method for response predictions; simulation of the vibration by using Matlab.
Pre-req: ENGR 214 and MTH 335.
Grade Mode: Normal Grading Mode

ME 465 Mechatronics **3 Credit hours**
Dynamic analysis of mechatronic systems, sensors, transducers, and electric circuits and control.
Pre-req: ME 245 with a minimum grade of D and MTH 335 with a minimum grade of D.
Grade Mode: Normal Grading Mode

ME 471 Finite Elements Method **3 Credit hours**
This course covers flight dynamics; and modeling, stability, and control aspects of aircrafts.
Pre-req: ENGR 216 with a minimum grade of D and ENGR 335 with a minimum grade of D.
Grade Mode: Normal Grading Mode

ME 473 Computational Fluid Dynamics **3 Credit hours**
Conservation laws of fluid motion and heat transfer; Fundamental knowledge to use numerical techniques to solve fluid-thermal problems.
Pre-req: ENGR 335 with a minimum grade of D and ME 360 with a minimum grade of D.
Grade Mode: Normal Grading Mode

ME 475 Introduction to Robotics **3 Credit hours**
Introduction to effective problem-solving techniques used in various engineering applications. Computational tools including C and MATLAB will be covered.
Pre-req: ME 410 with a minimum grade of D and (ME 420 with a minimum grade of D or ME 360 with a minimum grade of D).
Grade Mode: Normal Grading Mode

ME 480 Special Topics **1-4 Credit hours**
Subject matter to be selectred from topics of current interest.
Grade Mode: Normal Grading Mode

ME 481 Special Topics **1-4 Credit hours**
Subject matter to be selected from topics of current interest.
Grade Mode: Normal Grading Mode

ME 482 Special Topics **1-4 Credit hours**
Subject matter to be selected from topics of current interest.
Grade Mode: Normal Grading Mode

ME 483 Special Topics **1-4 Credit hours**
Subject matter to be selected from topics of current interest.
Grade Mode: Normal Grading Mode

ME 485 Independent Study **1-4 Credit hours**
Individual study of advanced mechanical engineering areas.
Grade Mode: Normal Grading Mode

ME 486 Independent Study **1-4 Credit hours**
Individual study of advanced mechanical engineering areas.
Grade Mode: Normal Grading Mode

ME 487 Independent Study **1-4 Credit hours**
Individual study of advanced mechanical engineering areas.
Grade Mode: Normal Grading Mode

ME 488 Independent Study **1-4 Credit hours**
Individual study of advanced mechanical engineering areas.
Grade Mode: Normal Grading Mode

Medical Imaging (MI)

- General Education Course

MI 201 Intro to Radiography **3 Credit hours**
Provides an overview of the foundations in radiography and the practitioner's role in the health care delivery system and professional responsibilities of the radiographer. Provides an overview of the foundations in radiography and the practitioner's role in the health care delivery system and professional responsibilities of the radiographer.
Pre-req: BSC 228 and MTH 121 and PHY 101.
Grade Mode: Normal Grading Mode

MI 202 Patient Care Img Science **3 Credit hours**
Content is designed to identify the role of the radiographer in patient care, including consideration for the physical and psychological needs of the patient and family. Content is designed to identify the role of the radiographer in patient care, including consideration for the physical and psychological needs of the patient and family.
Pre-req: BSC 228 and MI 201.
Co-req: MI 203, MI 204, MI 205, MI 206
Grade Mode: Normal Grading Mode

MI 204 Radiographic Anatomy **3 Credit hours**
Content is designed to introduce the student to radiographic anatomy. Emphasis is placed on identifying structures visible on correctly performed radiographic procedures. Content is designed to introduce the student to radiographic anatomy. Emphasis is placed on identifying structures visible on correctly performed radiographic procedures.
Pre-req: BSC 228.
Co-req: MI 202, MI 203, MI 205, MI 206
Grade Mode: Normal Grading Mode

MI 205 Imaging Procedures I **4 Credit hours**
Content is designed to provide the knowledge base necessary to perform standard imaging procedures. Students will practice imaging procedures in lab prior to performing them on patients. Content is designed to provide the knowledge base necessary to perform standard imaging procedures. Students will practice imaging procedures in lab prior to performing them on patients.
Pre-req: BSC 228.
Co-req: MI 202, MI 203, MI 204, MI 206
Grade Mode: Normal Grading Mode

MI 206 Clinical Practice I **4 Credit hours**
Content and clinical practice experiences are designed to sequentially develop, apply, critically analyze, integrate, synthesize and evaluate concepts and theories in the performance of radiologic procedures. Content and clinical practice experiences are designed to sequentially develop, apply, critically analyze, integrate, synthesize and evaluate concepts and theories in the performance of radiologic procedures.
Co-req: MI 202, MI 203, MI 204, MI 205
Grade Mode: Normal Grading Mode

MI 207 Imaging Procedures II **4 Credit hours**
Content is designed to provide the knowledge base necessary to perform special imaging procedures and basic computed tomography. Content is designed to provide the knowledge base necessary to perform special imaging procedures and basic computed tomography.
Pre-req: BSC 228 with a minimum grade of D and MI 206 with a minimum grade of D.
Co-req: MI 208, MI 209, MI 210, MI 211
Grade Mode: Normal Grading Mode

MI 208 Pharmacology for Imaging Sci **2 Credit hours**
Content is designed to provide basic concepts of pharmacology including delivery of and pharmacodynamics associated with imaging contrast media. Content is designed to provide basic concepts of pharmacology including delivery of and pharmacodynamics associated with imaging contrast media.
Pre-req: BSC 227 with a minimum grade of D and MI 206 with a minimum grade of D.
Co-req: MI 207, MI 209, MI 210, MI 211
Grade Mode: Normal Grading Mode

MI 209 Intro to Imaging Equip **3 Credit hours**
Content is designed to provide knowledge in radiographic, fluoroscopic, mobile and tomographic equipment requirements and design. Content is designed to provide knowledge in radiographic, fluoroscopic, mobile and tomographic equipment requirements and design.
Pre-req: MTH 121 with a minimum grade of D and PHY 101 with a minimum grade of D and PHY 101L with a minimum grade of D.
Co-req: MI 207, MI 208, MI 210, MI 211
Grade Mode: Normal Grading Mode

MI 210 Clinical Practice II **4 Credit hours**
Content is designed to provide the knowledge base necessary to perform standard imaging procedures. Students will begin clinical rotations in computed tomography. Content is designed to provide the knowledge base necessary to perform standard imaging procedures. Students will begin clinical rotations in computed tomography.
Pre-req: MI 206 with a minimum grade of D.
Co-req: MI 207, MI 208, MI 209, MI 211
Grade Mode: Normal Grading Mode

MI 211 Seminar Imaging Science **1 Credit hour**
Introduces student to current research in imaging science. Emphasis will be on oral communication via power point presentations. Introduces student to current research in imaging science. Emphasis will be on oral communication via power point presentations.
Co-req: MI 207, MI 208, MI 209, MI 210
Grade Mode: Normal Grading Mode

MI 212 Seminar Imaging Sciences II **1 Credit hour**
Seminar on new and emerging technologies in imaging sciences.
Grade Mode: Normal Grading Mode

MI 213 Elective Clinical Practicum I **4 Credit hours**
Elective clinical practicum in radiography or sonography.
Grade Mode: Normal Grading Mode

MI 214 Intro to Sonography **3 Credit hours**
This course introduces the basic principles of sonography.
Grade Mode: Normal Grading Mode

MI 302 Princ of Radiation Physics **3 Credit hours**
Introduces student to the nature and characteristic of radiation production and the fundamentals of photon interactions with matter. Course covers principles associated with radiography, nuclear medicine and radiation oncology. Introduces student to the nature and characteristic of radiation production and the fundamentals of photon interactions with matter. Course covers principles associated with radiography, nuclear medicine and radiation oncology.
Pre-req: PHY 101 and PHY 101L and MTH 121 and MI 209.
Co-req: MI 303, MI 304, MI 305, MI 306
Grade Mode: Normal Grading Mode

MI 303 Image Acquisition **3 Credit hours**
Introduces students to the factors that govern the image production process. Introduces students to the factors that govern the image production process.
Pre-req: MTH 121 and MI 209.
Co-req: MI 302, MI 304, MI 305, MI 306
Grade Mode: Normal Grading Mode

MI 304 Radiographic Pathology **3 Credit hours**
Introduces student to concepts related to disease and etiological considerations with emphasis on radiographic appearance of disease and impact on exposure factor selection. Introduces student to concepts related to disease and etiological considerations with emphasis on radiographic appearance of disease and impact on exposure factor selection.
Pre-req: BSC 228 with a minimum grade of D and MI 204 with a minimum grade of D.
Co-req: MI 302, MI 303, MI 305, MI 306
Grade Mode: Normal Grading Mode

MI 305 Clinical Practice IV **4 Credit hours**
Content is designed to provide the knowledge base necessary to perform standard imaging procedures. Clinical practice is sequential. Students will be introduced to special imaging modalities. Content is designed to provide the knowledge base necessary to perform standard imaging procedures. Clinical practice is sequential. Students will be introduced to special imaging modalities.
Pre-req: MI 301.
Co-req: MI 302, MI 303, MI 304, MI 306
Grade Mode: Normal Grading Mode

MI 306 Seminar Imaging Science **1 Credit hour**
Introduces student to current research in imaging science. Introduces student to current research in imaging science.
Co-req: MI 302, MI 303, MI 304, MI 305
Grade Mode: Normal Grading Mode

MI 307 Radiobiology **3 Credit hours**
This course focuses on the biological impact of ionizing radiation.
Pre-req: BSC 228 and CHM 203 and MI 302.
Co-req: MI 308, MI 309, MI 310
Grade Mode: Normal Grading Mode

MI 308 Rad Image Analysis **2 Credit hours**
Content is designed to provide a basis for analyzing and critiquing radiographic images. Content is designed to provide a basis for analyzing and critiquing radiographic images.
Pre-req: MI 303 with a minimum grade of D and MI 304 with a minimum grade of D and MI 208 with a minimum grade of D.
Co-req: MI 307, MI 309, MI 310
Grade Mode: Normal Grading Mode

MI 309 Digital Image Acquisition **2 Credit hours**
Content is designed to impart an understanding of the components, principles and operation of digital imaging systems found in diagnostic radiography. Content is designed to impart an understanding of the components, principles and operation of digital imaging systems found in diagnostic radiography.
Pre-req: MI 303 with a minimum grade of D.
Co-req: MI 305, MI 307, MI 310
Grade Mode: Normal Grading Mode

MI 310 Clinical Practice V **4 Credit hours**
Content is designed to provide the knowledge base necessary to perform standard imaging procedures. Clinical practice is sequential. Students will be introduced to special imaging modalities. Content is designed to provide the knowledge base necessary to perform standard imaging procedures. Clinical practice is sequential. Students will be introduced to special imaging modalities.
Pre-req: MI 210 with a minimum grade of D and MI 301 with a minimum grade of D and MI 305 with a minimum grade of D.
Co-req: MI 307, MI 308, MI 309
Grade Mode: Normal Grading Mode

MI 311 Seminar Imaging Sciences III **1 Credit hour**
Seminar on new and emerging technologies in imaging sciences.
Grade Mode: Normal Grading Mode

MI 312 Abdominal Sonography I **4 Credit hours**
This course covers basic abdominal sonographic positioning and scanning protocols, as it relates to normal anatomy of the abdomen. Laboratory included.
Grade Mode: Normal Grading Mode

MI 313 Ultrasound Physics I **3 Credit hours**
The focus of this course is to educate students about the physics of sound waves and their interaction with tissue enabling the display of diagnostic imaging.
Grade Mode: Normal Grading Mode

MI 314 Clinical Practice I Sonography **4 Credit hours**
Clinical practice experiences are designed for sequential development, application, critical analysis, integration, synthesis and evaluation of concepts and theories in the performance of sonographic procedures.
Grade Mode: Normal Grading Mode

MI 315 Small Parts Sonography **3 Credit hours**
This course covers anatomy, positioning and scanning protocol of the superficial structures.
Grade Mode: Normal Grading Mode

MI 316 Abdominal Sonography II **3 Credit hours**
This course covers basic abdominal sonographic positioning and scanning protocols, as it relates to normal anatomy, anatomical variants, physiology to include the retroperitoneum, associated abdominal vasculature identified.
Grade Mode: Normal Grading Mode

MI 317 Ultrasound Physics II **3 Credit hours**
The focus of this course is to educate students about the physics of sound waves and their interaction with tissue enabling the display of diagnostic imaging.
Grade Mode: Normal Grading Mode

MI 318 Vascular Sonography I **4 Credit hours**
Discussion of vascular disease, duplex examinations with comparison to arteriography, as it pertains to venous and visceral vascular examinations. Laboratory included.
Grade Mode: Normal Grading Mode

MI 319 Clinical Prac II Sonograpy **4 Credit hours**
Clinical practice experiences are designed for sequential development, application, critical analysis, integration, synthesis and evaluation of concepts and theories in the performance of sonographic procedures.
Grade Mode: Normal Grading Mode

MI 320 Elective Clinical Practicum II **4 Credit hours**
Elective clinical practicum in radiography or sonography.
Grade Mode: Normal Grading Mode

MI 321 Imaging Procedures III **4 Credit hours**
Content is designed to provide the knowledge necessary for advanced diagnostic radiographic imaging procedures.
Pre-req: MI 205 and MI 207.
Grade Mode: Normal Grading Mode

MI 322 Radiation Safety **3 Credit hours**
This course focuses on radiation safety including ionizing radiation dose limits for the occupational worker, patient and general public.
Grade Mode: Normal Grading Mode

MI 401 Seminar in Imaging Sci **1 Credit hour**
Review seminar for the primary ARRT certification examination. Review seminar for the primary ARRT certification examination.
Grade Mode: Normal Grading Mode

MI 402 Quality Management **3 Credit hours**
Advanced practice course in the quality assurance (QA) and quality management (QM) process for imaging sciences. Advanced practice course in the quality assurance (QA) and quality management (QM) process for imaging sciences.
Grade Mode: Normal Grading Mode

MI 403 Adv Practice Medical Img **3 Credit hours**
Core theory requirement for all advanced practice students focused on discussion of communication, human diversity, health care policy, legal issues and patient information management. Core theory requirement for all advanced practice students focused on discussion of communication, human diversity, health care policy, legal issues and patient information management.
Grade Mode: Normal Grading Mode

MI 404 Adv Sectional Anatomy **3 Credit hours**
Provides students enrolled in CT/MRI advanced practice track advanced knowledge of sectional anatomy. Provides students enrolled in CT/MRI advanced practice track advanced knowledge of sectional anatomy.
Co-req: MI 405, MI 407
Grade Mode: Normal Grading Mode

MI 405 CT Procedures **3 Credit hours**
Focus on advanced patient care skills including ACLS, imaging procedures and equipment in computed tomography. Focus on advanced patient care skills including ACLS, imaging procedures and equipment in computed tomography.
Co-req: MI 404, MI 408
Grade Mode: Normal Grading Mode

MI 406 MRI Procedures **3 Credit hours**
Focus on advanced patient care skills including ACLS, imaging procedures and equipment in computed tomography. Focus on advanced patient care skills including ACLS, imaging procedures and equipment in computed tomography.
Co-req: MI 404, MI 408
Grade Mode: Normal Grading Mode

MI 407 Cardiovascular Anatomy **3 Credit hours**
Focus on advanced cardiovascular anatomy, physiology and pathophysiology including heart anatomy, coronary, systemic, pulmonary, peripheral and cerebral circulation. Focus on advanced cardiovascular anatomy, physiology and pathophysiology including heart anatomy, coronary, systemic, pulmonary, peripheral and cerebral circulation.
Co-req: MI 408
Grade Mode: Normal Grading Mode

MI 408 Vascular Interventional Img **3 Credit hours**
Focus is on advanced patient care skills including ACLS, procedures and equipment utilized in cardiovascular and vascular/interventional imaging. Focus is on advanced patient care skills including ACLS, procedures and equipment utilized in cardiovascular and vascular/interventional imaging.
Co-req: MI 407
Grade Mode: Normal Grading Mode

MI 409 Adv Clinical Practice **4 Credit hours**
Students will arrange clinical experience in selected imaging modality to gain competency in clinical procedures required to sit for post-primary ARRT certification exams. Students will arrange clinical experience in selected imaging modality to gain competency in clinical procedures required to sit for post-primary ARRT certification exams.
Grade Mode: Normal Grading Mode

MI 410 Research Medical Imaging **3 Credit hours**
Capstone course. Research methods and information literacy. Capstone course. Research methods and information literacy.
Attributes: Capstone Course
Grade Mode: Normal Grading Mode

MI 411 Transcultural Healthcare **3 Credit hours**
Multidisciplinary approach to transcultural healthcare. Course will utilize comparative ethnography and provide a theoretical framework for organizing and interpreting information about health. Multidisciplinary approach to transcultural healthcare. Course will utilize comparative ethnography and provide a theoretical framework for organizing and interpreting information about health.
Attributes: Multicultural
Grade Mode: Normal Grading Mode

MI 412 Radiography Management I **3 Credit hours**
Provides instruction in management principles for radiography departmental managers including JACHO and Nuclear Regulatory Commission parameters. Students will be prepared to sit for the certification exam offered by the AHRA.
Grade Mode: Normal Grading Mode

MI 413 Radiography Management II **3 Credit hours**
Continuation of MI 412 to provide radiographer with management principles and preparation for the AHRA certification exam in radiography management.
Grade Mode: Normal Grading Mode

MI 414 Mammography **3 Credit hours**
Introduction to medical imaging of the breast. Focus is to prepare student for advanced certification exam in Mammography.
Grade Mode: Normal Grading Mode

MI 415 RIS and PACS Principles **3 Credit hours**
Course content provides basic knowledge of digital storage systems, computer networking, radiology information systems (RIS), and picture archiving and communication systems (PACS).
Grade Mode: Normal Grading Mode

MI 416 Obstetrical Sonography I **3 Credit hours**
This course covers basic obstetrical sonographic postitioning and scanning protocols, as it relates to normal anatomy of the fetus.
Grade Mode: Normal Grading Mode

MI 417 Gynecological Sonography I **3 Credit hours**
This course presents a study of normal anatomy and physiology of the nongravid and first trimester pelvis.
Grade Mode: Normal Grading Mode

MI 418 Sonography Registry Review I **1 Credit hour**
This course is designed to prepare the sonography student for their first speciality exam through the ARDMS.
Grade Mode: Normal Grading Mode

MI 419 Clinical Prac III Sonography **4 Credit hours**
Clinical practice experiences are designed for sequential development, application, critical analysis, integration, synthesis and evaluation of concepts and theories in the performance of sonographic procedures.
Grade Mode: Normal Grading Mode

MI 420 Obstetrical Sonography II **2 Credit hours**
This course focuses on sonographic techniques in high risk pregnancies and fetal abnormalities.
Grade Mode: Normal Grading Mode

MI 421 Gynecological Sonography II **2 Credit hours**
This course presents a study of pathology of the nongravid and first trimester pelvis.
Grade Mode: Normal Grading Mode

MI 422 Clinical Pract IV Sonography **4 Credit hours**
Clinical practice experiences are designed for sequential development, application, critical analysis, integration, synthesis and evaluation of concepts and theories in the performance of sonographic procedures.
Grade Mode: Normal Grading Mode

MI 423 Echocardiography I **4 Credit hours**
This course covers basic adult heart sonographic positioning and scanning protocols, as it relates to normal anatomy, anatomical variants, physiology of the adult heart.
Grade Mode: Normal Grading Mode

MI 424 Vascular Sonography II **3 Credit hours**
Discussion of vascular pathology and the use of plethsymography techniques in sonography.
Grade Mode: Normal Grading Mode

MI 425 Echocardiography II **3 Credit hours**
This course is a continuation of MI 423 and covers basic adult heart sonographic positioning and scanning protocols, as it relates to anatomical variants and physiology of the adult heart.
Grade Mode: Normal Grading Mode

MI 426 Advanced Clinical Practice II **4 Credit hours**
Students will arrange clinical experience in selected imaging modality to gain competency in clinical procedures required to sit for post-primary ARRT certification exams.
Grade Mode: Normal Grading Mode

MI 427 Adv Trauma and Surgical Rad **3 Credit hours**
Advanced practice course in trauma and surgical radiography for imaging sciences.
Grade Mode: Normal Grading Mode

MI 428 Forensic Radiology **3 Credit hours**
This course will focus on introducing forensic radiography techniques and theoretical models.
Grade Mode: Normal Grading Mode

MI 429 Geriatric and Pediatric Rad **3 Credit hours**
This course will focus on advanced diagnositc medical imaging in the geriatric and pediatric population including mobile radiography.
Grade Mode: Normal Grading Mode

MI 430 Mammography II **3 Credit hours**
Advanced medical imaging of the breast.
Grade Mode: Normal Grading Mode

MI 431 Adv Clinical Practice III **4 Credit hours**
Elective advanced clinical practicum in radiography or sonography.
Grade Mode: Normal Grading Mode

MI 432 Advanced MRI Theory **3 Credit hours**
Advanced magnetic resonance imaging equipment and procedures.
Pre-req: MI 406 with a minimum grade of D.
Grade Mode: Normal Grading Mode

MI 433 Point of Care Ultrasound **3 Credit hours**
This course will introduce basic principles of point of care ultrasound for vascular and cardiac interventional radiography, and mammography.
Grade Mode: Normal Grading Mode

MI 434 Cardiovascular Imaging **3 Credit hours**
This course will focus on diagnostic and interventional procedures of the cardiovascular system.
Grade Mode: Normal Grading Mode

MI 435 Seminar ARRT Exam Review II **1 Credit hour**
This is a review course for the ARRT primary certification examination.
Grade Mode: Normal Grading Mode

MI 436 Sonography Registry Review II **1 Credit hour**
This course is designed to prepare the sonography student for their second specialty exam through the ARDMS.
Grade Mode: Normal Grading Mode

MI 437 Breast Sonography **3 Credit hours**
This course covers anatomy, positioning and scanning protocol for the breast as well as an introduction to ultrasound physics.
Grade Mode: Normal Grading Mode

MI 438 Fetal Echocardiology **3 Credit hours**
This course focuses on echosonography of the developing fetus.
Grade Mode: Normal Grading Mode

MI 439 Pediatric Echo I **3 Credit hours**
This course focuses on sonographic techniques in pediatric echocardiography.
Grade Mode: Normal Grading Mode

MI 440 Pediatric Echo II **3 Credit hours**
This course is a continuation of MI 439 and focuses on sonographic techniques in pediatric echocardiography.
Pre-req: MI 439 with a minimum grade of D.
Grade Mode: Normal Grading Mode

MI 441 Adv Echocardiography I **3 Credit hours**
This course focuses on advanced sonographic techniques in pediatric echocardiography and is designed for the credentialed echocardiographer training in the area of pediatric echo.
Grade Mode: Normal Grading Mode

MI 442 Adv Echocardiography II **3 Credit hours**
This course is a continuation of MI 441 and focuses on advanced sonographic techniques in pediatric echocardiography and is desinged for the credentialed echocardiographer training in the area of pediatric echo.
Pre-req: MI 441 with a minimum grade of D.
Grade Mode: Normal Grading Mode

MI 485 Independent Study **1-4 Credit hours**
Course designed to allow student to pursue individual research in medical imaging.
Grade Mode: Normal Grading Mode

MI 486 Independent Study **1-4 Credit hours**
Course designed to allow student to pursue individual research in medical imaging.
Grade Mode: Normal Grading Mode

MI 487 Independent Study **1-4 Credit hours**
Course designed to allow student to pursue individual research in medical imaging.
Grade Mode: Normal Grading Mode

MI 488 Independent Study **1-4 Credit hours**
Course designed to allow student to pursue individual research in medical imaging.
Grade Mode: Normal Grading Mode

Military Science (MS)

- General Education Course

MS 101 Foundations of Officership **1 Credit hour**
Increase self-confidence through team study and activities in physical fitness, land navigation, first aid, and basic drill. Learn fundamental concepts of leadership in both classroom and outdoor laboratory environments. (CR: MS 101l) Increase self-confidence through team study and activities in physical fitness, land navigation, first aid, and basic drill. Learn fundamental concepts of leadership in both classroom and outdoor laboratory environments. (CR: MS 101l)
Grade Mode: Normal Grading Mode

MS 101L Mil Sci Basic Lead Lab I **1 Credit hour**
Learn and practice basic soldier skills and field craft. Build self-confidence and team building ledership skills through activities in drill, rappelling and basic marksmanship that can be applied throughout life. Learn and practice basic soldier skills and field craft. Build self-confidence and team building ledership skills through activities in drill, rappelling and basic marksman- ship that can be applied throughout life.
Co-req: MS 101
Grade Mode: Normal Grading Mode

MS 102 Basic Leadership **1 Credit hour**
Learn/apply principles of effective leading. Develop communication skills to improve individual performance and group interaction. Relate organizational ethical values to effectiveness of a leader. Learn/apply principles of effective leading. Develop communication skills to improve individual performance and group interaction. Relate organizational ethical values to effectiveness of a leader.
Co-req: MS 102L
Grade Mode: Normal Grading Mode

MS 102L Mil Sci Basic Lead Lab I **1 Credit hour**
Learn and practice basic soldier skills and field craft. Build self-confidence and team-building leadership skills through activities in drill, rappelling and basic marksmanship that can be applied throughout life. Learn and practice basic soldier skills and field craft. Build self-confidence and team-building leadership skills through activities in drill, rappelling and basic marksman- ship that can be applied throughout life.
Co-req: MS 102
Grade Mode: Normal Grading Mode

MS 201 Individual Leadership Studies **2 Credit hours**
Learn ethics-based leadership skills that develop individual abilities and contribute to team builidng. Develop skills in communications, event planning, group coordination, advanced first aid navigation and basic tactics. Learn ethics-based leadership skills that develop indivi- dual abilities and contribute to team builidng. Develop skills in communications, event planning, group coordina- tion, advanced first aid navigation and basic tactics.
Grade Mode: Normal Grading Mode

MS 201L Mil Sci Basic Lead Lab II **1 Credit hour**
Practice and refine the basic soldier skills and field craft learned in MS 101L/102L. Build self-confidence and teambuilding skills through leadership opportunities supervising MS101L/MS102L cadets, Practice and refine the basic soldier skills and field craft learned in MS 101L/102L. Build self-confidence and team- building skills through leadership opportunities supervising MS101L/MS102L cadets,
Co-req: MS 201
Grade Mode: Normal Grading Mode

MS 202 Leadership and Teamwork **2 Credit hours**
Introduction to individual and team military tatics in squad operations. Includes radio communications, safety assessments, movement techniques, planning for safety/ security, training management, and methods of preoperational checks. Introduction to individual and team military tatics in squad operations. Includes radio communications, safety assessments, movement techniques, planning for safety/ security, training management, and methods of pre- operational checks.
Co-req: MS 202L
Grade Mode: Normal Grading Mode

MS 202L Mil Sci Basic Lead Lab II **1 Credit hour**
Practice and refine the basic soldier skills and field craft learned in MS101L/102L, Build self confidence and teambuilding skills through leadership opportunities supervising MS101L/102L cadets, learned in MS101L/102L. Build self-confidence and team building skills through leadership opportunities supervising MS101L/MS102L cadets. Practice and refine the basic soldier skills and field craft learned in MS101L/102L, Build self confidence and team- building skills through leadership opportunities supervising MS101L/102L cadets, learned in MS101L/102L. Build self-confidence and team - building skills through leadership opportunities supervising MS101L/MS102L cadets.
Co-req: MS 202
Grade Mode: Normal Grading Mode

MS 209 Nursing in the Army **2 Credit hours**
An overview of aspects, opportunities, and career progression for BSN Army nurses.field trips to local civilian, VA, and military medical facilities are included. An overview of aspects, opportunities, and career progres- sion for BSN Army nurses.field trips to local civilian, VA, and military medical facilities are included.
Grade Mode: Normal Grading Mode

MS 211 Ranger Operations & Tech **2 Credit hours**
Provides an overview ofU.S. Army Ranger history, organization, and mission. small unit tactics, leadership, patrolling techniques, marksmanship, rappelling, and land navigation. Provides an overview ofU.S. Army Ranger history, organi- zation, and mission. small unit tactics, leadership, pa- trolling techniques, marksmanship, rappelling, and land navigation.
Grade Mode: Normal Grading Mode

MS 221 Army Phys Readiness Prog **1 Credit hour**
A physical training program consisting of Army conditioning drills, guerrilla exercises, and grass drills. A physical training program consisting of Army conditioning drills, guerrilla exercises, and grass drills.
Grade Mode: Normal Grading Mode

MS 280 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

MS 281 Special Topics **1-4 Credit hours**
Pre-req: MS 301.
Grade Mode: Normal Grading Mode

MS 282 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

MS 283 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

MS 284 Military History **3 Credit hours**
Review the evolution of warfare, military theory and the military profession, with particular emphasis on the place of military institutions in society, as to develop a sense of historical awareness.
Grade Mode: Normal Grading Mode

MS 301 Leadership and Prob Solving **3 Credit hours**
Uses small unit defensive tactics and opportunities to plan and conduct training. Practical opportunities to lead small groups, receive personal assessments/encouragement, and lead in situations of increasing complexity. Uses small unit defensive tactics and opportunities to plan and conduct training. Practical opportunities to lead small groups, receive personal assessments/encouragement, and lead in situations of increasing complexity.
Pre-req: MS 202 or MS 251.
Co-req: MS 301L
Grade Mode: Normal Grading Mode

MS 301L Adv Course Lead Lab III **1 Credit hour**
Students develop, practice and refine leadership skills by serving and being evaluated in a variety of leadership positions. Students are responsible for the planning, coordination, execution and evaluation of training. Students develop, practice and refine leadership skills by serving and being evaluated in a variety of leadership positions. Students are responsible for the planning, coordination, execution and evaluation of training.
Grade Mode: Normal Grading Mode

MS 302 Leadership and Ethics **3 Credit hours**
Analyze tasks; prepare written/oral guidance delegate, and supervise. Plan for and adapt to the unexpected under stress. Examine and apply lessons from leadership case studies. Analyze tasks; prepare written/ oral guidance delegate, and supervise. Plan for and adapt to the unexpected under stress. Examine and apply lessons from leadership case studies.
Pre-req: MS 301 with a minimum grade of D and MS 301L with a minimum grade of D.
Co-req: MS 302L
Grade Mode: Normal Grading Mode

MS 302L Adv Course Lead Lab III **1 Credit hour**
Students develop practice and refine leadership skills by serving and being evaluated in a variety of leadership positions. Students are responsible for the planning, coordination, execution and evaluation of training. Students develop practice and refine leadership skills by serving and being evaluated in a variety of leadership positions. Students are responsible for the planning, coordination, execution and evaluation of training.
Co-req: MS 302
Grade Mode: Normal Grading Mode

MS 351 Summer Training Camp **6 Credit hours**
A five-week camp at an active arem post; it is highly structured and demanding, stressing leadership at small unit levels under varing, challenging conditions. Individual leadership eveluated throughout camp. (PR: MS 302) A five-week camp at an active arem post; it is highly structured and demanding, stressing leadership at small unit levels under varing, challenging conditions. Individual leadership eveluated throughout camp. (PR: MS 302)
Grade Mode: Credit/No Credit Grade Only

MS 401 Leadership and Management **3 Credit hours**
Articulate goals, plan, conduct, and evaluate activities of the ROTC cadet organization. Assess organizational cohesion and develop improvement strategies. Develop confidence in leadership skills and manage resources. Articulate goals, plan, conduct, and evaluate activities of the ROTC cadet organization. Assess organizational cohesion and develop improvement strategies. Develop confidence in leadership skills and manage resources.
Pre-req: MS 302.
Co-req: MS 401L
Grade Mode: Normal Grading Mode

MS 401L Adv Course Lead Lab IV **1 Credit hour**
Students develop, practice and refine leadership skills by serving a variety of leadership positions. Students are responsible for the planning, coordination, execution and evaluation of training for students enrolled in MS 101L-MS 302L. Students develop, practice and refine leadership skills by serving a variety of leadership positions. Students are responsible for the planning, coordination, execution and evaluation of training for students enrolled in MS 101L-MS 302L.
Co-req: MS 401
Grade Mode: Normal Grading Mode

MS 402 Officership **3 Credit hours**
Identify/resolve ethical dilemmas. Refine counseling/ motivating techniques. Examine aspects of tadition and law as relating to an Army officer. Prepare for a future as a successful Army lieutenant. Identify/ resolve ethical dilemmas. Refine counseling/ motivating techniques. Examine aspects of tadition and law as relating to an Army officer. Prepare for a future as a successful Army lieutenant.
Pre-req: MS 401 with a minimum grade of D.
Co-req: MS 402L
Grade Mode: Normal Grading Mode

MS 402L Adv Course Lead Lab IV **1 Credit hour**
Students develop, practice and refine leadership skills by serving a variety of leadership positions. Students are responsible for the planning, coordination, execution and evaluation of training for students enrolled in MS 101L-MS 302L. Students develop, practice and refine leadership skills by serving a variety of leadership positions. Students are responsible for the planning, coordination, execution and evaluation of training for students enrolled in MS 101L-MS 302L.
Co-req: MS 402
Grade Mode: Normal Grading Mode

MS 480 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

MS 481 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

MS 482 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

MS 483 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

MS 485 Independent Study **1-4 Credit hours**
Grade Mode: Normal Grading Mode

MS 486 Independent Study **1-4 Credit hours**
Grade Mode: Normal Grading Mode

MS 487 Independent Study **1-4 Credit hours**
Grade Mode: Normal Grading Mode

MS 488 Independent Study **1-4 Credit hours**
Grade Mode: Normal Grading Mode

Mine Safety (MSF)

MSF 397 Mining Indust Hygiene Sci **3 Credit hours**
Algebra, chemistry, human anatomy and physiology as applicable to Industrial Hygiene calculations; hazards encountered and physiological systems affected. Algebra, chemistry, human anatomy and physiology as appli- cable to Industrial Hygiene calculations; hazards encountered and physiological systems affected.
Pre-req: CHM 212.
Grade Mode: Normal Grading Mode

MSF 410 Survey of Mining **3 Credit hours**
An overview of mining to provide the participant with a general understanding of mining history, development systems terminology, procedures, methods, and safety and health activities. An overview of mining to provide the participant with a general understanding of mining history, development systems terminology, procedures, methods, and safety and health activities.
Grade Mode: Normal Grading Mode

MSF 411 Mine Safety Prog Analysis **3 Credit hours**
This course prepares the participant for the effective analysis of safety programs and provides some specific applications in the mining environment. This course prepares the participant for the effective analysis of safety programs and provides some specific applications in the mining environment.
Grade Mode: Normal Grading Mode

MSF 480 Special Topics **1-4 Credit hours**
A study of special topics not offered in regularly scheduled courses. A study of special topics not offered in regularly scheduled courses.
Grade Mode: Normal Grading Mode

MSF 481 Special Topics **1-4 Credit hours**
A study of special topics not offered in regularly scheduled courses. A study of special topics not offered in regularly scheduled courses.
Grade Mode: Normal Grading Mode

MSF 482 Special Topics **1-4 Credit hours**
A study of special topics not offered in regularly scheduled courses. A study of special topics not offered in regularly scheduled courses.
Grade Mode: Normal Grading Mode

MSF 483 Special Topics **1-4 Credit hours**
A study of special topics not offered in regularly scheduld courses. A study of special topics not offered in regularly scheduld courses.
Grade Mode: Normal Grading Mode

MSF 485 Independent Study **1-4 Credit hours**
Grade Mode: Normal Grading Mode

MSF 486 Independent Study **1-4 Credit hours**
Grade Mode: Normal Grading Mode

MSF 487 Independent Study **1-4 Credit hours**
Grade Mode: Normal Grading Mode

MSF 488 Independent Study **1-4 Credit hours**
Grade Mode: Normal Grading Mode

MSF 491 Workshop **1-4 Credit hours**
Grade Mode: Normal Grading Mode

MSF 492 Workshop **1-4 Credit hours**
Grade Mode: Normal Grading Mode

MSF 493 Workshop **1-4 Credit hours**
Grade Mode: Normal Grading Mode

MSF 494 Workshop **1-4 Credit hours**
Grade Mode: Normal Grading Mode

Modern Languages (MDL)

- General Education Course

MDL 280 Special Topics **1-4 Credit hours**
Study of a topic not normally covered in other courses. Study of a topic not normally covered in other courses.
Grade Mode: Normal Grading Mode

MDL 281 Special Topics **1-4 Credit hours**
Study of a topic not normally covered in other courses. Study of a topic not normally covered in other courses.
Grade Mode: Normal Grading Mode

MDL 282 Special Topics **1-4 Credit hours**
Study of a topic not normally covered in other courses. Study of a topic not normally covered in other courses.
Grade Mode: Normal Grading Mode

MDL 283 Special Topics **1-4 Credit hours**
Study of a topic not normally covered in other courses. Study of a topic not normally covered in other courses.
Grade Mode: Normal Grading Mode

MDL 480 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

MDL 481 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

MDL 482 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

MDL 483 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

Music (MUS)

- General Education Course

MUS 100 Applied Music Laboratory **0 Credit hours**
A forum devoted to the development of applied music skills, supplying the opportunity for music majors both to demonstrate performance skills and to observe the skills of colleagues. A forum devoted to the development of applied music skills, supplying the opportunity for music majors both to demon- strate performance skills and to observe the skills of colleagues.
Attributes: No Textbook Required
Grade Mode: Credit/No Credit Grade Only

MUS 101 Basic Musicianship **3 Credit hours**
Study of music fundamentals and aural skills including: notation, key signatures, scales, intervals, and triads and aural recognition of meter, scales, intervals, and triads. Online section open to non-music majors.
Grade Mode: Normal Grading Mode

MUS 102 Developmental Class Piano **1 Credit hour**
Class instruction for students with little or no prior background in piano. Preparation for entry into the MUS 179 sequence. Pre: Permission. Class instruction for students with little or no prior background in piano. Preparation for entry into the MUS 179 sequence. Pre: Permission.
Grade Mode: Normal Grading Mode

MUS 105 Critical Thinking Music (CT) **3 Credit hours**
Includes the study of critical thinking in music fields with specific focus on music education and performance. Includes the study of critical thinking in music fields with specific focus on music education and performance.
Attributes: Critical Thinking
Grade Mode: Normal Grading Mode

MUS 109 Mus Theatre Musicianship Lab **1 Credit hour**
A music literacy lab for the musical theatre major emphasizing the practices of sight-singing and rhythm skills covered in MUS 101.
Pre-req: MUS 101 with a minimum grade of C.
Grade Mode: Normal Grading Mode

MUS 110 The Professional Musician **1 Credit hour**
Investigation of traditional and non-traditional music career options and the role of the musician in arts advocacy, community engagement, and arts education. (pre-requisities: none)
Grade Mode: Normal Grading Mode

MUS 111 Elementary Music Theory I **2 Credit hours**
Study of the diatonic harmony of the Common Practice Period through development of compositional and analytical skills. Emphasis on cadences, melodic form, non-harmonic tones and diatonic triads.
Co-req: MUS 113
Grade Mode: Normal Grading Mode

MUS 112 Elementary Music Theory II **2 Credit hours**
Continued study of diatonic harmony of the Common Practice Period through development of compositional and analytical skills. Introduction to elementary forms, elementary modulation, and secondary dominants.
Pre-req: MUS 111 with a minimum grade of C and MUS 113 with a minimum grade of C.
Co-req: MUS 114
Grade Mode: Normal Grading Mode

MUS 113 Elem Aural Skills I **2 Credit hours**
Sight-singing of melodies, and dictation of harmony, rhythm, and melody using elementary rhythms and diatonic pitch materials.
Co-req: MUS 111
Grade Mode: Normal Grading Mode

MUS 114 Elem Aural Skills II **2 Credit hours**
Sight-singing of melodies, and dictation of harmony, rhythm, and melody using diatonic pitch materials in major and minor modes. Introduction to syncopation, secondary dominants, and elementary forms.
Pre-req: MUS 113 with a minimum grade of C.
Co-req: MUS 112
Grade Mode: Normal Grading Mode

MUS 142 Music in Society **3 Credit hours**
Exploration of the roles and value of music in culture and society. Development of musical awareness through mastery of basic terminology, stylistic concepts, and critical listening skills. For non-music majors.
Attributes: Affordable Education Materials, Core II Fine Arts, Multicultural
Grade Mode: Normal Grading Mode

MUS 142H Music in Society Honors **3 Credit hours**
Exploration of the roles an value of music in culture and society. Development of musical awareness through mastery of basic terminology, stylistic concepts, and critical listening skills. For non-music majors. 3 credits.
Pre-req: Admitted Honors College with a score of 1.
Attributes: Affordable Education Materials, Core II Fine Arts, Honors, Multicultural
Grade Mode: Normal Grading Mode

MUS 171 African Drum & Dance Ens **1 Credit hour**
The African Drumming and Dance Ensemble specializes in performing traditional music of West Africa. This ensemble combines dancing, drumming and singing into a rich cultural experience in non-western music. The ensemble is open to all univerisity students and does not require prior musical training. The African Drumming and Dance Ensemble specializes in performing traditional music of West Africa. This ensemble combines dancing, drumming and singing into a rich cultural experience in non-western music. The ensemble is open to all univerisity students and does not require prior musical training.
Attributes: No Textbook Required
Grade Mode: Normal Grading Mode

MUS 172 Fife and Drum Corps **1 Credit hour**
Performing, marching, uniformed ensemble devoted to the music of the American Revolution and Chief Justice John Marshall. Instruments featured include fifes and drums. Performing, marching, uniformed ensemble devoted to the music of the American Revolution and Chief Justice John Marshall. Instruments featured include fifes and drums.
Attributes: No Textbook Required
Grade Mode: Normal Grading Mode

MUS 174 Irish Ceili Band **1 Credit hour**
An ensemble open to all university and regional performers on instruments of the Irish Ceili Band tradition. One rehearsal per week; several performances each semester. An ensemble open to all university and regional performers on instruments of the Irish Ceili Band tradition. One rehearsal per week; several performances each semester.
Grade Mode: Normal Grading Mode

MUS 177A Class Guitar **1 Credit hour**
Grade Mode: Normal Grading Mode

MUS 178A Class Voice **1 Credit hour**
Classes for voice minors and electives designed for beginners. Classes for voice minors and electives designed for beginners.
Grade Mode: Normal Grading Mode

MUS 178B Class Voice **1 Credit hour**
Classes for voice minors and electives designed for beginners. Classes for voice minors and electives designed for beginners.
Grade Mode: Normal Grading Mode

MUS 179A Class Piano **1 Credit hour**
Classes for piano minors and electives progressing from beginner to proficiency level. Classes for piano minors and electives progressing from beginner to proficiency level.
Grade Mode: Normal Grading Mode

MUS 179B Class Piano **1 Credit hour**
Classes for piano minors and electives progressing from beginner to proficiency level. Classes for piano minors and electives progressing from beginner to proficiency level.
Grade Mode: Normal Grading Mode

MUS 179C Class Piano **1 Credit hour**
Classes for piano minors and electives progressing from beginner to proficiency level. Classes for piano minors and electives progressing from beginner to proficiency level.
Grade Mode: Normal Grading Mode

MUS 179D Class Piano **1 Credit hour**
Classes for piano minors and electives progressing from beginner to proficiency level. Classes for piano minors and electives progressing from beginner to proficiency level.
Grade Mode: Normal Grading Mode

MUS 180 Applied Composition **1-2 Credit hours**
Individual studies in composition. May be repeated for credit.
Attributes: No Textbook Required
Grade Mode: Normal Grading Mode

MUS 181 Saxophone **1-2 Credit hours**
Attributes: No Textbook Required
Grade Mode: Normal Grading Mode

MUS 182 Flute **1-2 Credit hours**
Attributes: No Textbook Required
Grade Mode: Normal Grading Mode

MUS 183 Oboe **1-2 Credit hours**
Attributes: No Textbook Required
Grade Mode: Normal Grading Mode

MUS 184 Clarinet **1-2 Credit hours**
Attributes: No Textbook Required
Grade Mode: Normal Grading Mode

MUS 185 Bassoon **1-2 Credit hours**
Attributes: No Textbook Required
Grade Mode: Normal Grading Mode

MUS 186 French Horn **1-2 Credit hours**
Attributes: No Textbook Required
Grade Mode: Normal Grading Mode

MUS 187 Trumpet **1-2 Credit hours**
Attributes: No Textbook Required
Grade Mode: Normal Grading Mode

MUS 188 Trombone **1-2 Credit hours**
Attributes: No Textbook Required
Grade Mode: Normal Grading Mode

MUS 189 Euphonium **1-2 Credit hours**
Attributes: No Textbook Required
Grade Mode: Normal Grading Mode

MUS 190 Tuba **1-2 Credit hours**
Attributes: No Textbook Required
Grade Mode: Normal Grading Mode

MUS 191 Violin **1-2 Credit hours**
Attributes: No Textbook Required
Grade Mode: Normal Grading Mode

MUS 192 Viola **1-2 Credit hours**
Attributes: No Textbook Required
Grade Mode: Normal Grading Mode

MUS 193 Cello **1-2 Credit hours**
Attributes: No Textbook Required
Grade Mode: Normal Grading Mode

MUS 194 String Bass **1-2 Credit hours**
Attributes: No Textbook Required
Grade Mode: Normal Grading Mode

MUS 195 Piano **1-2 Credit hours**
Attributes: No Textbook Required
Grade Mode: Normal Grading Mode

MUS 196 Voice **1-2 Credit hours**
Attributes: No Textbook Required
Grade Mode: Normal Grading Mode

MUS 197 Organ **1-2 Credit hours**
Attributes: No Textbook Required
Grade Mode: Normal Grading Mode

MUS 198 Percussion **1-2 Credit hours**
Attributes: No Textbook Required
Grade Mode: Normal Grading Mode

MUS 199 Guitar **1-2 Credit hours**
Attributes: No Textbook Required
Grade Mode: Normal Grading Mode

MUS 200 Introduction to World Music **3 Credit hours**
This course will survey native musics of Africa, Asia and the Americas as an aspect of culture. No formal background in music is required.
Attributes: Core II Fine Arts, Multicultural
Grade Mode: Normal Grading Mode

MUS 203 Choral Union **1 Credit hour**
Large choral ensemble available to university and regional singers without audition. Gives public performances of oratorios and works for chorus and orchestra twice a year. One rehearsal per week. Large choral ensemble available to university and regional singers without audition. Gives public performances of oratorios and works for chorus and orchestra twice a year. One rehearsal per week.
Attributes: No Textbook Required
Grade Mode: Normal Grading Mode

MUS 204 University Chorus **1 Credit hour**
A mixed chorus of 60-90 singers open to all university students without audition. Public performances of a variety of music are given each semester. Three rehearsals per week. A mixed chorus of 60-90 singers open to all university students without audition. Public performances of a variety of music are given each semester. Three rehearsals per week.
Attributes: No Textbook Required
Grade Mode: Normal Grading Mode

MUS 205 A Cappella Ensemble **1 Credit hour**
A mixed a capella ensemble dedicated to the performance of a variety of popular, jazz, and contemporary sytles. Open to all students regardless of major. PR: Permission.
Attributes: No Textbook Required
Grade Mode: Normal Grading Mode

MUS 206 Opera Workshop **1 Credit hour**
Preparation and performance of opera scenes and full operas. Membership open to students as singers, pianists, and technical personnel. Roles assigned by audition. Two rehearsals per week plus private coaching. Preparation and performance of opera scenes and full operas. Membership open to students as singers, pianists, and technical personnel. Roles assigned by audition. Two rehearsals per week plus private coaching.
Attributes: No Textbook Required
Grade Mode: Normal Grading Mode

MUS 207 Chamber Choir **1 Credit hour**
Advanced, auditioned choral ensemble open to all university students. Repertoire performed locally and on tour includes great chamber literature of the past five centuries. Three rehearsals per week. Advanced, auditioned choral ensemble open to all university students. Repertoire performed locally and on tour includes great chamber literature of the past five centuries. Three rehearsals per week.
Attributes: No Textbook Required
Grade Mode: Normal Grading Mode

MUS 208 Orchestra **1 Credit hour**
The Marshall Community Orchestra is open to all university students, faculty, and interested musicians in the community with permission of the instructor. Concerts are presented each semester. Rehearsals are held each Tuesday evening. The Marshall Community Orchestra is open to all university students, faculty, and interested musicians in the community with permission of the instructor. Concerts are presented each semester. Rehearsals are held each Tuesday evening.
Attributes: No Textbook Required
Grade Mode: Normal Grading Mode

MUS 210 Intro to Electronic Music (CT) **3 Credit hours**
A non-technical introduction to the theory, practice and literature of electronic music. This course fulfills a Core I/CT Course requirement. Open to all majors.
Attributes: Critical Thinking, Digital Humanities, Core II Fine Arts
Grade Mode: Normal Grading Mode

MUS 211 Advanced Music Theory I **2 Credit hours**
Study of advanced harmonic concepts in tonal music including modulation, altered pre-dominants, and chromatic mediant relationships.
Pre-req: MUS 112 with a minimum grade of C and MUS 114 with a minimum grade of C.
Co-req: MUS 213
Grade Mode: Normal Grading Mode

MUS 212 Advanced Music Theory II **2 Credit hours**
The study of musical forms and formal processes found in music of the late 18th through the 19th centuries.
Pre-req: MUS 211 with a minimum grade of C and MUS 213 with a minimum grade of C.
Co-req: MUS 214
Grade Mode: Normal Grading Mode

MUS 213 Adv Aural Skills I **2 Credit hours**
Sight-singing and aural analysis of melodies, harmonies, and rhythms found in 18th and 19th century music, including modulating melodies, secondary dominants, multi-part harmonic dictation, and characteristic rhythms. (PRE: MUS 112 and MUS 114; MUS 211 must be taken concurrently or prior to enrollment in MUS 213) Sight-singing and aural analysis of melodies, harmonies, and rhythms found in 18th and 19th century music, including modulating melodies, secondary dominants, multi-part harmonic dictation, and characteristic rhythms. (PRE: MUS 112 and MUS 114; MUS 211 must be taken concurrently or prior to enrollment in MUS 213)
Pre-req: MUS 112 with a minimum grade of C and MUS 114 with a minimum grade of C.
Co-req: MUS 211
Grade Mode: Normal Grading Mode

MUS 214 Adv Aural Skills II **2 Credit hours**
Sight-singing and aural analysis of 19th and 20th century music, including chromatic harmony, modulating melodies, multi-part harmonic dictation, scale/chord identification, characteristic 20th century sonorities and advanced rhythmic materials. (PREREQ: MUS 211 and MUS 213; MUS 212 must be taken concurrently or prior to enrollment in MUS 213) Sight-singing and aural analysis of 19th and 20th century music, including chromatic harmony, modulating melodies, multi-part harmonic dictation, scale/chord identification, characteristic 20th century sonorities and advanced rhythmic materials. (PREREQ: MUS 211 and MUS 213; MUS 212 must be taken concurrently or prior to enrollment in MUS 213)
Pre-req: MUS 211 with a minimum grade of C and MUS 213 with a minimum grade of C.
Co-req: MUS 212
Grade Mode: Normal Grading Mode

MUS 217 Jazz Theory **4 Credit hours**
Fundamental jazz theory and ear training. Chords, scales, nomenclature. Harmonic progressions and substitutions. Aural recognition of melodic and chord structures and functions. Composition and transcription. Pre: MUS 215 Fundamental jazz theory and ear training. Chords, scales, nomenclature. Harmonic progressions and substitutions. Aural recognition of melodic and chord structures and functions. Composition and transcription. Pre: MUS 215
Pre-req: MUS 211 with a minimum grade of C or MUS 213 with a minimum grade of C.
Grade Mode: Normal Grading Mode

MUS 218 Intro to Music Technology **3 Credit hours**
Introduction to music technology for sound reinforcement, music notation, MIDI, recording, technology aided instruction, and emerging issues concerning use and production of media in Western society. (PR: MUS 112 and 114 or permission)
Pre-req: MUS 112 with a minimum grade of D and MUS 114 with a minimum grade of D.
Grade Mode: Normal Grading Mode

MUS 219 Digital Recording Techniques **2 Credit hours**
Concepts, implementation, and utlization of digital audio workstation software and hardware: MIDI, digital audio, recording techniques, production, and using the Internet to empower music creators (open to non-music majors) Prerequisite: None
Grade Mode: Normal Grading Mode

MUS 222 Ital & Eng Diction Singer **2 Credit hours**
A systematic study of the pronunciation and problems encountered by singers when performing repertoire with English and Italian texts. A systematic study of the pronunciation and problems encountered by singers when performing repertoire with English and Italian texts.
Grade Mode: Normal Grading Mode

MUS 224 Fren & Ger Diction Singer **2 Credit hours**
A systematic study of the pronunciation and problems encountered by singers when performing repertoire with French and German texts. A systematic study of the pronunciation and problems encountered by singers when performing repertoire with French and German texts.
Pre-req: MUS 222 with a minimum grade of C.
Grade Mode: Normal Grading Mode

MUS 227 History of Popular Music **3 Credit hours**
A chronological listening survey course of popular music with an emphasis on examining the intersection of musical, historical, sociological, and cultural factors.
Attributes: Core II Fine Arts
Grade Mode: Normal Grading Mode

MUS 231 Jazz Improvisation I **2 Credit hours**
Introduction to improvisation. Diatonic chord/scale relationships. Basic forms. Melodic construction and elaboration. Rhythmic improvisation. Keys and modes. Pre: MUS 116 Introduction to improvisation. Diatonic chord/scale relationships. Basic forms. Melodic construction and elaboration. Rhythmic improvisation. Keys and modes. Pre: MUS 116
Pre-req: MUS 114 with a minimum grade of C and MUS 112 with a minimum grade of C.
Grade Mode: Normal Grading Mode

MUS 232 Jazz Improvisation II **2 Credit hours**
Continued development of skills and techniques. Idiomatic jazz patterns. Survey of standard literature. Turnarounds, blues progressions. Transcription of solos. Performance and elaboration of representative literature. Pre: MUS 231 Continued development of skills and techniques. Idiomatic jazz patterns. Survey of standard literature. Turnarounds, blues progressions. Transcription of solos. Performance and elaboration of representative literature. Pre: MUS 231
Pre-req: MUS 231 with a minimum grade of C.
Grade Mode: Normal Grading Mode

MUS 233 Percussion Class **3 Credit hours**
A class of non-music majors who will learn to play percussion instruments from various cultures.
Grade Mode: Normal Grading Mode

MUS 235 Concert Band **1 Credit hour**
A concert band for any undergraduate student who has had experience playing a band instrument in high school or middle school.
Attributes: No Textbook Required
Grade Mode: Normal Grading Mode

MUS 237 Brass Band of the TriState **1 Credit hour**
A community/university ensemble modeled after the British-style brass band.
Grade Mode: Normal Grading Mode

MUS 240 Music Comp/Theory Sem **2 Credit hours**
Introduction to advanced theoretical and compositional methods employed by artist/researchers in analyzing music from the 19th and 20th centuries. (PR: MUS 215, Permission) Introduction to advanced theoretical and compositional methods employed by artist/researchers in analyzing music from the 19th and 20th centuries. (PR: MUS 215, Permission)
Pre-req: MUS 112 with a minimum grade of C and MUS 114 with a minimum grade of C.
Grade Mode: Normal Grading Mode

MUS 245 Piano Ensemble **1 Credit hour**
An ensemble elective for piano majors and qualified piano secondary/elective students. Perform a wide variety of musical styles for multiple pianists on 1-5 pianos. May be repeated for credit. An ensemble elective for piano majors and qualified piano secondary/elective students. Perform a wide variety of musical styles for multiple pianists on 1-5 pianos. May be repeated for credit.
Attributes: No Textbook Required
Grade Mode: Normal Grading Mode

MUS 250 History of Jazz **3 Credit hours**
The history of the development of jazz and related forms from the 19th century antecedents to recent experimental trends.
Grade Mode: Normal Grading Mode

MUS 252 Cello Ensemble **1 Credit hour**
Cello students will rehearse and perform works from the major literature for cello ensemble. Cello students will rehearse and perform works from the major literature for cello ensemble.
Attributes: No Textbook Required
Grade Mode: Normal Grading Mode

MUS 253 Guitar Ensemble **1 Credit hour**
Attributes: No Textbook Required
Grade Mode: Normal Grading Mode

MUS 254 Flute Ensemble **1 Credit hour**
Performs a wide variety of musical styles from full flute choir to quarters, trios, etc. Membership required of all flute majors; others by audition. One rehearsal per week. Performs a wide variety of musical styles from full flute choir to quarters, trios, etc. Membership required of all flute majors; others by audition. One rehearsal per week.
Attributes: No Textbook Required
Grade Mode: Normal Grading Mode

MUS 255 String Ensemble **1 Credit hour**
Attributes: No Textbook Required
Grade Mode: Normal Grading Mode

MUS 256 Woodwind Ensemble **1 Credit hour**
Attributes: No Textbook Required
Grade Mode: Normal Grading Mode

MUS 257 Percussion Ensemble **1 Credit hour**
Attributes: No Textbook Required
Grade Mode: Normal Grading Mode

MUS 258 Brass Ensemble **1 Credit hour**
Attributes: No Textbook Required
Grade Mode: Normal Grading Mode

MUS 259 Jazz Ensemble **1 Credit hour**
Attributes: No Textbook Required
Grade Mode: Normal Grading Mode

MUS 260 Jazz Improv Ensemble **1 Credit hour**
Ensemble improvisation from duet to tentet. Emphasis on music sightreading, recognition and application of chord/ scale relationships in a performance setting. Ensemble playing skills. May be repeated for credit. Ensemble improvisation from duet to tentet. Emphasis on music sightreading, recognition and application of chord/ scale relationships in a performance setting. Ensemble playing skills. May be repeated for credit.
Attributes: No Textbook Required
Grade Mode: Normal Grading Mode

MUS 261 String Techniques **1 Credit hour**
Grade Mode: Normal Grading Mode

MUS 262 Woodwind Techniques **1 Credit hour**
Grade Mode: Normal Grading Mode

MUS 263 Brass Techniques **1 Credit hour**
Grade Mode: Normal Grading Mode

MUS 264 Percussion Techniques **1 Credit hour**
Grade Mode: Normal Grading Mode

MUS 265 Symphonic Band **1 Credit hour**
Attributes: No Textbook Required
Grade Mode: Normal Grading Mode

MUS 266 Marching Thunder **1 Credit hour**
Attributes: No Textbook Required
Grade Mode: Normal Grading Mode

MUS 267 Wind Symphony **1 Credit hour**
Attributes: No Textbook Required
Grade Mode: Normal Grading Mode

MUS 268 Sixth Man Band **1 Credit hour**
Attributes: No Textbook Required
Grade Mode: Normal Grading Mode

MUS 269 Contemporary Music Ens **1 Credit hour**
Performance of contemporary music in various media. May be repeated for credit. Counts towards improvisation requirement.
Grade Mode: Normal Grading Mode

MUS 270 Musical Prods Practicum **1 Credit hour**
Application of musical production processes, theories and techniques. Specialized practical experience in all musical aspects of rehearsal and performance. Each number may be taken four times. Application of musical production processes, theories and techniques. Specialized practical experience in all musical aspects of rehearsal and performance. Each number may be taken four times.
Grade Mode: Normal Grading Mode

MUS 271 Guitar Techniques **1 Credit hour**
The study of guitar techniques that will allow students to play and teach guitar at a basic level in a public school music program.
Grade Mode: Normal Grading Mode

MUS 279A Jazz Piano Class **1 Credit hour**
Class instruction progressing from beginner to advanced. Development of literature and skills needed to pass the jazz piano proficiency exam. (Prerequisites: Permission. Permission granted upon completion of piano proficiency or completion of jazz piano placement exam.) Class instruction progressing from beginner to advanced. Development of literature and skills needed to pass the jazz piano proficiency exam. (Prerequisites: Permission. Permission granted upon completion of piano proficiency or completion of jazz piano placement exam.)
Grade Mode: Normal Grading Mode

MUS 279B Jazz Piano Class **1 Credit hour**
Class instruction progressing from beginner to advanced. Development of literature and skills needed to pass the jazz proficiency exam. (Prerequisites: Permission. Permission granted upon completion of piano proficiency or completion of jazz piano placement exam.) Class instruction progressing from beginner to advanced. Development of literature and skills needed to pass the jazz proficiency exam. (Prerequisites: Permission. Permission granted upon completion of piano proficiency or completion of jazz piano placement exam.)
Grade Mode: Normal Grading Mode

MUS 279C Jazz Piano Class **1 Credit hour**
Class instruction progressing from beginner to advanced. Development of literature and skills needed to pass the jazz piano proficiency exam. (Prerequisites: Permission. Permission granted upon completion of piano proficiency or completion of jazz piano placement exam.) Class instruction progressing from beginner to advanced. Development of literature and skills needed to pass the jazz piano proficiency exam. (Prerequisites: Permission. Permission granted upon completion of piano proficiency or completion of jazz piano placement exam.)
Grade Mode: Normal Grading Mode

MUS 279D Jazz Piano Class **1 Credit hour**
Class instruction progressing from beginner to advanced. Development of literature and skills needed to pass the jazz piano proficiency exam. (Prerequisites: Permission. Permission granted upon completion of piano proficiency or completion of jazz piano placement exam.) Class instruction progressing from beginner to advanced. Development of literature and skills needed to pass the jazz piano proficiency exam. (Prerequisites: Permission. Permission granted upon completion of piano proficiency or completion of jazz piano placement exam.)
Grade Mode: Normal Grading Mode

MUS 280 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

MUS 281 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

MUS 282 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

MUS 283 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

MUS 290 Music History to 1750 **3 Credit hours**
A study of the history and development of music through 1750, including the interaction of music with historical events, world cultures, other arts and philosophy. PR: MUS 211 and 213 with a grade of C or better A study of the history and development of music through 1750, including the interaction of music with historical events, world cultures, other arts and philosophy. PR: MUS 211 and 213 with a grade of C or better
Pre-req: MUS 211 with a minimum grade of C and MUS 213 with a minimum grade of C.
Grade Mode: Normal Grading Mode

MUS 301 Analysis **3 Credit hours**
Analysis of music from the 18th through 20th centuries using general methodology, set and serial theory.
Pre-req: MUS 212 with a minimum grade of C and MUS 214 with a minimum grade of C.
Grade Mode: Normal Grading Mode

MUS 302 Advanced Analysis **2 Credit hours**
Analysis of musical works from the late 19th century through the present era using sight and sound.
Pre-req: MUS 301 with a minimum grade of C.
Grade Mode: Normal Grading Mode

MUS 304 Styles **2 Credit hours**
An investigation of the distinguishing characteristics of the music of major composers by the study, dissection and comparison of major works. An investigation of the distinguishing characteristics of the music of major composers by the study, dissection and comparison of major works.
Pre-req: MUS 301 with a minimum grade of C and MUS 361 with a minimum grade of C.
Grade Mode: Normal Grading Mode

MUS 308 Music and Sound in Film **3 Credit hours**
A study of the role of music and sound in film. Development of terminology and skills for analyzing and interpreting sound tracks of films throughout the history of film.
Grade Mode: Normal Grading Mode

MUS 310 Perf Arts Entrepreneurship **1 Credit hour**
Skills required to create careers as entrepreneurial performing artists or to supplement an arts career in entrepreneurial pursuits, including planning, self-promotion, networking, audience building, and marketing.
Grade Mode: Normal Grading Mode

MUS 312 Vocal Techniques **1 Credit hour**
Foundation principles of voice usage, interpretation, and problems of vocal pedagogy. For instrumental music major students. Courses must be taken in sequence. Foundation principles of voice usage, interpretation, and problems of vocal pedagogy. For instrumental music major students. Courses must be taken in sequence.
Grade Mode: Normal Grading Mode

MUS 315 Basic Conducting **2 Credit hours**
Fundamental conducting skills: baton use, beat patterns of simple/compound meters, fermata holds/releases, cues to discrete parts using hand, visual gestures, leadership, conducting terminology, transportation and score reading.
Pre-req: MUS 212 with a minimum grade of C or MUS 214 with a minimum grade of C or MUS 217 with a minimum grade of C.
Grade Mode: Normal Grading Mode

MUS 317 Counterpoint **2 Credit hours**
Eighteenth Century counterpoint includes creative writing in this style and analysis of contrapuntal composition of this period based upon principles learned in introductory theory courses. Eighteenth Century counterpoint includes creative writing in this style and analysis of contrapuntal composition of this period based upon principles learned in introductory theory courses.
Pre-req: MUS 216 or MUS 214 with a minimum grade of C.
Grade Mode: Normal Grading Mode

MUS 320 Instrumental Arranging **2 Credit hours**
The study of the instruments of the modern orchestra, their history, technical possibilities and limitations, and practical application of technique in public school work. The study of the instruments of the modern orchestra, their history, technical possibilities and limitations, and practical application of technique in public school work.
Pre-req: (MUS 212 with a minimum grade of C and MUS 214 with a minimum grade of C).
Grade Mode: Normal Grading Mode

MUS 322 Orchestration **2 Credit hours**
A detailed study of band and orchestral instrument capabilities and their use in various large and small ensembles. (PR: MUS 212 and MUS 214) A detailed study of band and orchestral instrument capabilities and their use in various large and small ensembles. (PR: MUS 212 and MUS 214)
Pre-req: MUS 212 and MUS 214.
Grade Mode: Normal Grading Mode

MUS 323 Jazz Arranging/Composing **3 Credit hours**
Fundamental techniques and analysis of jazz masterworks applied to composing and arranging in various instrumental and vocal jazz styles. Orchestration for large and small ensembles. Pre: MUS 307 Fundamental techniques and analysis of jazz masterworks applied to composing and arranging in various instrumental and vocal jazz styles. Orchestration for large and small ensembles. Pre: MUS 307
Pre-req: MUS 217 with a minimum grade of C.
Grade Mode: Normal Grading Mode

MUS 326 Music Industry Law **3 Credit hours**
An introduction to the music industry and relevant areas of contract, copyright, and trademark law.
Pre-req: MUS 327 (may be taken concurrently) with a minimum grade of D.
Concurrent PR: MUS 327
Grade Mode: Normal Grading Mode

MUS 327 Music Business I **2 Credit hours**
A study of the intersection of music and business aimed at developing foundational skills and an understanding of the structure of the music business.
Grade Mode: Normal Grading Mode

MUS 331 Jazz Improvisation III **2 Credit hours**
Advanced skills and techniques. Extended forms, substitute harmonic progressions. Survey of standard bebop literature. Transcription of solos. Performance and elaboration of representative literature. Pre: MUS 232 Advanced skills and techniques. Extended forms, substitute harmonic progressions. Survey of standard bebop literature. Transcription of solos. Performance and elaboration of representative literature. Pre: MUS 232
Pre-req: MUS 232 with a minimum grade of C.
Grade Mode: Normal Grading Mode

MUS 332 Jazz Improvisation IV **2 Credit hours**
Advanced skills, techniques, and performance practices. Compound and extended forms. Survey of post-bebop, free jazz, fusion, and Afro-Carribbean literature. Transcription of solos. Performance of representative literature. Pre: MUS 331 Advanced skills, techniques, and performance practices. Compound and extended forms. Survey of post-bebop, free jazz, fusion, and Afro-Carribbean literature. Transcription of solos. Performance of representative literature. Pre: MUS 331
Pre-req: MUS 331 with a minimum grade of C.
Grade Mode: Normal Grading Mode

MUS 338 Mat & Meth School Mus Pre K-4 **3 Credit hours**
Elementary music education techniques, including movement, song, dance, rhythm, and musicianship. Study of Orff, Kodaly, Dalcroze techniques. Curriculum design and incorporation of music curriculum into elementary curriculum. Field experience required. (PR: EDF 218 and EDF 319) Elementary music education techniques, including movement, song, dance, rhythm, and musicianship. Study of Orff, Kodaly, Dalcroze techniques. Curriculum design and incorporation of music curriculum into elementary curriculum. Field experience required. (PR: EDF 218 and EDF 319)
Pre-req: Admitted to Teacher ED with a score of 4.
Grade Mode: Normal Grading Mode

MUS 339 Mat & Meth Instru Mus 5-12 **3 Credit hours**
Study of curriculum development in the middle and secondary schools and appropriate instrumental materials and methods of presentation of music in grades 5-12. Study of curriculum development in the middle and secondary schools and appropriate instrumental materials and methods of presentation of music in grades 5-12.
Pre-req: Admitted to Teacher ED with a score of 4.
Grade Mode: Normal Grading Mode

MUS 340 Mat & Meth Chor Grn Mus 5-12 **3 Credit hours**
Intensive study of vocal/choral materials. Methods of presentation of music in middle and secondary grades. Curriculum design and incorporation of music curriculum into general curriculum. Field experience required. (PR: EDF 218 and EDF 319) Intensive study of vocal/choral materials. Methods of presentation of music in middle and secondary grades. Curriculum design and incorporation of music curriculum into general curriculum. Field experience required. (PR: EDF 218 and EDF 319)
Pre-req: Admitted to Teacher ED with a score of 4.
Grade Mode: Normal Grading Mode

MUS 342 Mus in Elementary Classroom **3 Credit hours**
Music in the Elementary Classroom. Development of fundamental music reading and performing skills. Materials, procedures, and systems to teach music in grades PreK-6. Relationship of music activities to general classroom curriculum. Music in the Elementary Classroom. Development of funda- mental music reading and performing skills. Materials, procedures, and systems to teach music in grades PreK-6. Relationship of music activities to general classroom curriculum.
Grade Mode: Normal Grading Mode

MUS 350 Guitar Literature I **2 Credit hours**
A survey of the literature for the guitar from c. 1400 to the end of the nineteenth century. (PR: Permission)
Grade Mode: Normal Grading Mode

MUS 351 Guitar Pedagogy I **2 Credit hours**
A survey of guitar pedagogy literature, and a practicum in teaching classical guitar. (PR: Permission)
Grade Mode: Normal Grading Mode

MUS 360 Music History 1730 - 1900 **3 Credit hours**
A study of the history and development of music c. 1730 to c. 1900, including the interaction of music with historical events, world cultures, other arts and philosophy PR: MUS 290 or MUS 260 (Jazz Studies majors only) with a grade of C or better A study of the history and development of music c. 1730 to c. 1900, including the interaction of music with historical events, world cultures, other arts and philosophy PR: MUS 290 or MUS 260 (Jazz Studies majors only) with a grade of C or better
Pre-req: MUS 290 with a minimum grade of C or MUS 250 with a minimum grade of C.
Grade Mode: Normal Grading Mode

MUS 361 Music History Since 1900 **3 Credit hours**
A study of the history and development of music since c. 1900, including the interaction of music with historical events, world cultures, other arts and philosophy PR: MUS 360 with a grade of C or better A study of the history and development of music since c. 1900, including the interaction of music with historical events, world cultures, other arts and philosophy PR: MUS 360 with a grade of C or better
Pre-req: MUS 360 with a minimum grade of C.
Grade Mode: Normal Grading Mode

MUS 371 African Drum & Dance Ens **1 Credit hour**
The African Dumming and Dance Ensemble specializes in performing traditional music of West Africa. This ensemble combines dancing, drumming and singing into a rich cultural experience in non-western music. The ensemble is open to all university students and does not require prior musical training. The African Dumming and Dance Ensemble specializes in performing traditional music of West Africa. This ensemble combines dancing, drumming and singing into a rich cultural experience in non-western music. The ensemble is open to all university students and does not require prior musical training.
Attributes: No Textbook Required
Grade Mode: Normal Grading Mode

MUS 372 Fife and Drum Corps **1 Credit hour**
Performing, marching, uniformed ensemble devoted to the music of the American Revolution and Chief Justice John Marshall. Instruments featured include fifes and drums. Performing, marching, uniformed ensemble devoted to the music of the American Revolution and Chief Justice John Marshall. Instruments featured include fifes and drums.
Attributes: No Textbook Required
Grade Mode: Normal Grading Mode

MUS 374 Irish Ceili Band **1 Credit hour**
Grade Mode: Normal Grading Mode

MUS 376 Recital **1 Credit hour**
Serves as the summative recital for BA Music Education and BA in the Arts, and as the Junior level recital for the BFA. PR: Sophomore Hearing and permission
Attributes: No Textbook Required
Grade Mode: Normal Grading Mode

MUS 379 Advanced Class Piano **1 Credit hour**
Class instruction for experienced students. Development of repertoire ensemble skills, and sightreading. Pre: Completion of MUS 179D, or completion of piano proficiency, or permission of instructor. Class instruction for experienced students. Development of repertoire ensemble skills, and sightreading. Pre: Completion of MUS 179D, or completion of piano proficiency, or permission of instructor.
Pre-req: MUS 179D with a minimum grade of C.
Grade Mode: Normal Grading Mode

MUS 380 Applied Composition **2 Credit hours**
Pre-req: MUS 212 with a minimum grade of C and MUS 214 with a minimum grade of C.
Attributes: No Textbook Required
Grade Mode: Normal Grading Mode

MUS 381 Saxophone **1-2 Credit hours**
Attributes: No Textbook Required
Grade Mode: Normal Grading Mode

MUS 382 Flute **1-2 Credit hours**
Attributes: No Textbook Required
Grade Mode: Normal Grading Mode

MUS 383 Oboe **1-2 Credit hours**
Attributes: No Textbook Required
Grade Mode: Normal Grading Mode

MUS 384 Clarinet **1-2 Credit hours**
Attributes: No Textbook Required
Grade Mode: Normal Grading Mode

MUS 385 Bassoon **1-2 Credit hours**
Attributes: No Textbook Required
Grade Mode: Normal Grading Mode

MUS 386 French Horn **1-2 Credit hours**
Attributes: No Textbook Required
Grade Mode: Normal Grading Mode

MUS 387 Trumpet **1-2 Credit hours**
Attributes: No Textbook Required
Grade Mode: Normal Grading Mode

MUS 388 Trombone **1-2 Credit hours**
Attributes: No Textbook Required
Grade Mode: Normal Grading Mode

MUS 389 Euphonium **1-2 Credit hours**
Attributes: No Textbook Required
Grade Mode: Normal Grading Mode

MUS 390 Tuba **1-2 Credit hours**
Attributes: No Textbook Required
Grade Mode: Normal Grading Mode

MUS 391 Violin **1-2 Credit hours**
Attributes: No Textbook Required
Grade Mode: Normal Grading Mode

MUS 392 Viola **1-2 Credit hours**
Attributes: No Textbook Required
Grade Mode: Normal Grading Mode

MUS 393 Cello **1-2 Credit hours**
Attributes: No Textbook Required
Grade Mode: Normal Grading Mode

MUS 394 String Bass **1-2 Credit hours**
Attributes: No Textbook Required
Grade Mode: Normal Grading Mode

MUS 395 Piano **1-2 Credit hours**
Attributes: No Textbook Required
Grade Mode: Normal Grading Mode

MUS 396 Voice **1-2 Credit hours**
Attributes: No Textbook Required
Grade Mode: Normal Grading Mode

MUS 397 Organ **1-2 Credit hours**
Attributes: No Textbook Required
Grade Mode: Normal Grading Mode

MUS 398 Percussion **1-2 Credit hours**
Attributes: No Textbook Required
Grade Mode: Normal Grading Mode

MUS 399 Guitar **1-2 Credit hours**
Attributes: No Textbook Required
Grade Mode: Normal Grading Mode

MUS 400 Collaborative Composition **2 Credit hours**
Music composition projects proposed, developed, and realized with collaborators in disciplines outside of music including but not exclusive to: visual art/media, theatre, film/video, dance, or video games (PR: Instructor permission)
Grade Mode: Normal Grading Mode

MUS 401 Research in Music **3 Credit hours**
Basic research procedures and bibliography study culminating in a project in the student's area of specialization. Basic research procedures and bibliography study culminating in a project in the student's area of specialization.
Pre-req: MUS 301 with a minimum grade of C and MUS 361 with a minimum grade of C.
Grade Mode: Normal Grading Mode

MUS 402 Chamber Music Pedagogy **2 Credit hours**
A survey of chamber music pedagogy literature, and a practicum in teaching chamber music. (PR: Permission)
Grade Mode: Normal Grading Mode

MUS 403 Choral Union **1 Credit hour**
Large choral ensemble available to university and regional singers without audition. Gives public performances or oratorios and works for chorus and orchestra twice a year. One rehearsal per week. Large choral ensemble available to university and regional singers without audition. Gives public performances or oratorios and works for chorus and orchestra twice a year. One rehearsal per week.
Attributes: No Textbook Required
Grade Mode: Normal Grading Mode

MUS 404 University Chorus **1 Credit hour**
A mixed chorus of 60-90 singers open to all university students without audition. Public performances of a variety of music are given each semester. Three rehearsals per week. A mixed chorus of 60-90 singers open to all university students without audition. Public performances of a variety of music are given each semester. Three rehearsals per week.
Attributes: No Textbook Required
Grade Mode: Normal Grading Mode

MUS 405 A Cappella Ensemble **1 Credit hour**
A mixed a capella ensemble dedicated to the performance of a variety of popular, jazz, and contemporary styles. Open to all students regardless of major. PR: Permission.
Attributes: No Textbook Required
Grade Mode: Normal Grading Mode

MUS 406 Opera Workshop **1 Credit hour**
Preparation and performance of opera scenes and full operas. Membership open to students as singers, pianists, and technical personnel. Roles assigned by audition. Two rehearsals per week plus private coaching. Preparation and performance of opera scenes and full operas. Membership open to students as singers, pianists, and technical personnel. Roles assigned by audition. Two rehearsals per week plus private coaching.
Attributes: No Textbook Required
Grade Mode: Normal Grading Mode

MUS 407 Chamber Choir **1 Credit hour**
Advanced, auditioned choral ensemble open to all university students. Repertoire performed locally and on tour includes great chamber literature of the past five centuries. Three rehearsals per week. Advanced, auditioned choral ensemble open to all university students. Repertoire performed locally and on tour includes great chamber literature of the past five centuries. Three rehearsals per week.
Attributes: No Textbook Required
Grade Mode: Normal Grading Mode

MUS 408 Orchestra **1 Credit hour**
The Marshall Community Orchestra is open to all university students, faculty, and interested musicians in the community with permission of the instructor. Concerts are presented each semester. Rehearsals are held each Tuesday evening. The Marshall Community Orchestra is open to all university students, faculty, and interested musicians in the community with permission of the instructor. Concerts are presented each semester. Rehearsals are held each Tuesday evening.
Attributes: No Textbook Required
Grade Mode: Normal Grading Mode

MUS 412 Jazz Pedagogy and Conducting **3 Credit hours**
Methods and materials for jazz curriculum. Ensemble organization, rehearsal and conducting techniques. Selection of literature and equipment. Organizations and presentation of public performances. PR: MUS 323
Pre-req: MUS 217 with a minimum grade of C.
Grade Mode: Normal Grading Mode

MUS 413 Jazz Styles **2 Credit hours**
Structural forms used in jazz, analysis of extended forms. Techniques for solo transcriptions. Harmonic practices in specific styles. Survey of significant jazz composers, performers, genres. PR: MUS 217
Pre-req: MUS 217 with a minimum grade of C.
Grade Mode: Normal Grading Mode

MUS 414 Music Psy and Learning Theory **3 Credit hours**
Introduction to the psychology of music, human development, and assessment of learning.
Grade Mode: Normal Grading Mode

MUS 415 Advanced Conducting **2 Credit hours**
Advanced study of choral and instrumental conducting techniques emphasizing rehearsal and performance strategies, score study, ensemble warm-ups, asymmetric and changing meters. Lab ensemble experience provided.
Pre-req: MUS 315 with a minimum grade of C.
Grade Mode: Normal Grading Mode

MUS 427 Music Business II **2 Credit hours**
An in-depth examination of the commerical music industry designed at developing business related competencies including entrepreneurship, IP management, legal issues, and contract law; skills essential for maintaining a professional music career.
Pre-req: MUS 227 with a minimum grade of C and MUS 327 with a minimum grade of C and (ENT 220 with a minimum grade of C or LE 306 with a minimum grade of C or MGT 320 with a minimum grade of C or MKT 340 with a minimum grade of C).
Grade Mode: Normal Grading Mode

MUS 428 Song Literature **2 Credit hours**
Grade Mode: Normal Grading Mode

MUS 429 Vocal Pedagogy **2 Credit hours**
Review of materials, concepts and methodology used in teaching singing; overview of anatomy and function of the voice. Emphasis on beginning and intermediate levels. Review of materials, concepts and methodology used in teaching singing; overview of anatomy and function of the voice. Emphasis on beginning and intermediate levels.
Grade Mode: Normal Grading Mode

MUS 432 Music Production **2 Credit hours**
Music production techniques for a variety of genres using a digital audio workstation.
Pre-req: MUS 212 with a minimum grade of C and MUS 214 with a minimum grade of C.
Grade Mode: Normal Grading Mode

MUS 435 Concert Band **1 Credit hour**
A concert band for any undergraduate student who has had experience playing a band instrument in high school or middle school.
Attributes: No Textbook Required
Grade Mode: Normal Grading Mode

MUS 437 Brass Band of the TriState **1 Credit hour**
A community/university ensemble modeled after the British-style brass band.
Grade Mode: Normal Grading Mode

MUS 439 Teaching Advanced Piano **2 Credit hours**
Materials and techniques of presentation; appropriate selection of repertoire; teaching strategies for late intermediate and advanced levels; exploration of pedagogical, business, and wellness resource for the independent piano teacher.
Grade Mode: Normal Grading Mode

MUS 440 Teachin Beg-Intermed Piano **2 Credit hours**
Materials and techniques of presentation; development of reading skills; basic fundamentals of technique; cultivation of musicianship. Emphasis is on elementary and intermediate levels. Materials and techniques of presentation; development of reading skills; basic fundamentals of technique; cultivation of musicianship. Emphasis is on elementary and intermediate levels.
Grade Mode: Normal Grading Mode

MUS 441 Piano Literature I **2 Credit hours**
Pre-req: MUS 216.
Grade Mode: Normal Grading Mode

MUS 445 Piano Ensemble **1 Credit hour**
An ensemble elective for piano majors and qualified piano secondary/elective students. Perform a wide variety of musical styles for multiple pianists on 1-5 pianos. May be repeated for credit. An ensemble elective for piano majors and qualified piano secondary/elective students. Perform a wide variety of musical styles for multiple pianists on 1-5 pianos. May be repeated for credit.
Attributes: No Textbook Required
Grade Mode: Normal Grading Mode

MUS 450 Guitar Literature II **2 Credit hours**
A survey of the literature for the guitar during the twentieth and twenty-first centuries. (PR: Permission)
Grade Mode: Normal Grading Mode

MUS 451 Guitar Pedagogy II **2 Credit hours**
A survey of guitar pedagogy literature, and a practicum in teaching classical guitar. A survey of guitar pedagogy literature, and a practicum in teaching classical guitar.
Grade Mode: Normal Grading Mode

MUS 452 Cello Ensemble **1 Credit hour**
Cello students will rehearse and perform works from the major literature for cello ensemble. Cello students will rehearse and perform works from the major literature for cello ensemble.
Attributes: No Textbook Required
Grade Mode: Normal Grading Mode

MUS 453 Guitar Ensemble **1 Credit hour**
Attributes: No Textbook Required
Grade Mode: Normal Grading Mode

MUS 454 Flute Ensemble **1 Credit hour**
Performs a wide variety of musical styles from full flute choir to quarters, trios, etc. Membership required of all flute majors; others by audition. One rehearsal per week. Performs a wide variety of musical styles from full flute choir to quarters, trios, etc. Membership required of all flute majors; others by audition. One rehearsal per week.
Attributes: No Textbook Required
Grade Mode: Normal Grading Mode

MUS 455 String Ensemble **1 Credit hour**
Attributes: No Textbook Required
Grade Mode: Normal Grading Mode

MUS 456 Woodwind Ensemble **1 Credit hour**
Attributes: No Textbook Required
Grade Mode: Normal Grading Mode

MUS 457 Percussion Ensemble **1 Credit hour**
Attributes: No Textbook Required
Grade Mode: Normal Grading Mode

MUS 458 Brass Ensemble **1 Credit hour**
Attributes: No Textbook Required
Grade Mode: Normal Grading Mode

MUS 459 Jazz Ensemble **1 Credit hour**
Attributes: No Textbook Required
Grade Mode: Normal Grading Mode

MUS 460 Jazz Improv Ensemble **1 Credit hour**
Ensemble improvisation from duet to tentet. Emphasis on music sightreading, recognition and application of chord/ scale relationships in a performance setting. Ensemble playing skills. May be repeated for credit. Ensemble improvisation from duet to tentet. Emphasis on music sightreading, recognition and application of chord/ scale relationships in a performance setting. Ensemble playing skills. May be repeated for credit.
Attributes: No Textbook Required
Grade Mode: Normal Grading Mode

MUS 465 Symphonic Band **1 Credit hour**
Attributes: No Textbook Required
Grade Mode: Normal Grading Mode

MUS 466 Marching Thunder **1 Credit hour**
Attributes: No Textbook Required
Grade Mode: Normal Grading Mode

MUS 467 Wind Symphony **1 Credit hour**
Attributes: No Textbook Required
Grade Mode: Normal Grading Mode

MUS 468 Sixth Man Band **1 Credit hour**
Attributes: No Textbook Required
Grade Mode: Normal Grading Mode

MUS 469 Contemporary Music Ens **1 Credit hour**
Performance of contemporary music in various media. May be repeated for credit. Counts towards improvisation requirement.
Grade Mode: Normal Grading Mode

MUS 470 Musical Prods Practicum **1 Credit hour**
Application of musical production processes, theories and techniques. Specialized practical experience in all musical aspects of rehearsal and performance. Each number may be taken four times. Application of musical production processes, theories and techniques. Specialized practical experience in all musical aspects of rehearsal and performance. Each number may be taken four times.
Grade Mode: Normal Grading Mode

MUS 476 Senior Recital **0 Credit hours**
The culminating recital for applied music study in the principal applied area.
Pre-req: MUS 376 with a minimum grade of C.
Attributes: No Textbook Required
Grade Mode: Credit/No Credit Grade Only

MUS 479 Applied Pedagogy Lab **1 Credit hour**
Practical application of concepts, methodology, and materials covered to demonstrate efficient and effective teaching in the applied area.
Grade Mode: Normal Grading Mode

MUS 480 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

MUS 481 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

MUS 482 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

MUS 483 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

MUS 485 Independent Study **1-4 Credit hours**
Attributes: No Textbook Required
Grade Mode: Normal Grading Mode

MUS 486 Independent Study **1-4 Credit hours**
Attributes: No Textbook Required
Grade Mode: Normal Grading Mode

MUS 487 Independent Study **1-4 Credit hours**
Attributes: No Textbook Required
Grade Mode: Normal Grading Mode

MUS 488 Independent Study **1-4 Credit hours**
Attributes: No Textbook Required
Grade Mode: Normal Grading Mode

MUS 494 Workshop **1-4 Credit hours**
Grade Mode: Normal Grading Mode

MUS 495 Music Internship **1-4 Credit hours**
Practical synthesis and application of knowledge and skills gained during the student's course of study.
Pre-req: MUS 310 with a minimum grade of C.
Grade Mode: Normal Grading Mode

MUS 496 Musical Theatre Capstone **1 Credit hour**
A culminating Musical Theatre performance and critical self-reflection. Students develop proposals with input from faculty mentor.
Grade Mode: Normal Grading Mode

MUS 497 Capstone Project in Music **1-2 Credit hours**
A discipline-based experience designed to combine classroom and studio education in a summarizing project. (PR: MUS 310, successful completion of piano proficiency requirements)
Pre-req: MUS 310 with a minimum grade of C and (MUS 179D with a minimum grade of C or MUS 279D with a minimum grade of C or Piano Proficiency with a score of 1).
Attributes: Capstone Course, No Textbook Required
Grade Mode: Normal Grading Mode

MUS 498 BFA Composition Capstone **2 Credit hours**
A discipline-based experience designed to combine classroom and studio education in a summarizing project. A discipline-based experience designed to combine classroom and studio education in a summarizing project.
Pre-req: MUS 310 with a minimum grade of C or MUS 376 with a minimum grade of C or (MUS 179D with a minimum grade of C or MUS 279D with a minimum grade of C or Piano Proficiency with a score of 1).
Attributes: Capstone Course, No Textbook Required
Grade Mode: Normal Grading Mode

MUS 499 BFA Performance Capstone **2 Credit hours**
Pre-req: MUS 310 with a minimum grade of C or MUS 376 with a minimum grade of C or (MUS 179D with a minimum grade of C or MUS 279D with a minimum grade of C or Piano Proficiency with a score of 1).
Attributes: Capstone Course, No Textbook Required
Grade Mode: Normal Grading Mode

Nat Resources & Environment (NRE)

- General Education Course

NRE 111 Living Systems **4 Credit hours**
This course is designed to equip students to observe and create their own questions, test them, and continue the process of scientific inquiry related to living systems.
Attributes: Natural Sciences, Core II Natural Sciences
Grade Mode: Normal Grading Mode

NRE 120 Discussion in Environ Sci (CT) **3 Credit hours**
Critical thinking course designed to examine and explore issues in environmental science including protection of terrestrial and aquatic resources and production of energy and food for a growing population.
Attributes: Critical Thinking
Grade Mode: Normal Grading Mode

NRE 200 Introduction to Agriculture **3 Credit hours**
This course will discuss scientific concepts essential to agriscience and examine practices, careers, and new directions in various fields in agriculture.
Grade Mode: Normal Grading Mode

NRE 212 Energy **3 Credit hours**
The course introduces the students to the properties and the interfaces of biological and physical systems with emphasis on energy concepts, production and distribution in both systems.
Attributes: Natural Sciences
Grade Mode: Normal Grading Mode

NRE 220 Human Dimensions Nat Res (CT) **3 Credit hours**
This course provides an overview of human-nature relationship from the perspective of conservation and natural resource management.
Attributes: Critical Thinking
Grade Mode: Normal Grading Mode

NRE 280 Special Topics **1-4 Credit hours**
A course covering topics not treated in regular course offerings.
Grade Mode: Normal Grading Mode

NRE 281 Special Topics **1-4 Credit hours**
A course covering topics not treated in regular course offerings.
Grade Mode: Normal Grading Mode

NRE 282 Special Topics **1-4 Credit hours**
A course covering topics not treated in regular course offerings.
Grade Mode: Normal Grading Mode

NRE 283 Special Topics **1-4 Credit hours**
A course covering topics not treated in regular course offerings.
Grade Mode: Normal Grading Mode

NRE 285 Independent Study **1-4 Credit hours**
Independent study for selected sophomores or advanced freshman under supervision of faculty; may be repeated only once.
Grade Mode: Normal Grading Mode

NRE 286 Independent Study **1-4 Credit hours**
Independent study for selected sophomores or advanced freshman under supervision of faculty; may be repeated only once.
Grade Mode: Normal Grading Mode

NRE 287 Independent Study **1-4 Credit hours**
Independent study for selected sophomores or advanced freshman under supervision of faculty; may be repeated only once.
Grade Mode: Normal Grading Mode

NRE 288 Independent Study **1-4 Credit hours**
Independent study for selected sophomores or advanced freshman under supervision of faculty; may be repeated only once.
Grade Mode: Normal Grading Mode

NRE 300 Principles of Soil Science **3 Credit hours**
This course will examine the principles of soils, including origin, composition, classification, and physical, chemical, and biological properties and processes, as well as agricultural and environmental applications.
Pre-req: CHM 212 with a minimum grade of D.
Grade Mode: Normal Grading Mode

NRE 301 Principles of Soil Science Lab **2 Credit hours**
A laboratory course that demonstrates the application of concepts introduced in NRE 300 Principles of Soil Science.
Pre-req: NRE 300 (may be taken concurrently) with a minimum grade of D and CHM 212 with a minimum grade of D.
Concurrent PR: NRE 300
Grade Mode: Normal Grading Mode

NRE 302 Animal Production **3 Credit hours**
This course will examine the principles of animal production through the application of anatomy, physiology, behavior, nutrition, reproduction, breeding, and genetics in the production and management of farm animals.
Pre-req: BSC 121 with a minimum grade of D.
Grade Mode: Normal Grading Mode

NRE 320 Nature Enviro Problems **3 Credit hours**
The effects of human activity on ecological, political, economic, and cultural systems are examined. Particular attention is given to present human population growth, industrial activities, and energy availability.
Grade Mode: Normal Grading Mode

NRE 321 Resol Environ Problems **3 Credit hours**
Students examine case studies of current environmental problems and propose methods of remediation. Cultural, political, economic, as well as ecological and physiographic factors are considered.
Grade Mode: Normal Grading Mode

NRE 322 Assess I: Terrestrial Systems **4 Credit hours**
Use of scientific procedure and current technology to characterize and quantify sensitive elements of terrestrial ecosystems and to assess human impact on these systems.
Pre-req: (IST 111 with a minimum grade of D or NRE 111 with a minimum grade of D) or BSC 104 with a minimum grade of D or BSC 120 with a minimum grade of D.
Grade Mode: Normal Grading Mode

NRE 323 Assessment II: Aquatic Ecology **4 Credit hours**
Use of scientific procedures and current technology to characterize and quantify sensitive elements of aquatic ecosystems and to assess human impact on these systems.
Pre-req: IST 111 or NRE 111 or BSC 104 or BSC 120.
Grade Mode: Normal Grading Mode

NRE 400 Soil Fertility/Plant Nutrition **4 Credit hours**
This course will examine properties of soil fertility, its relationship to plan nutrition, and practices in nutrient management and fertilizer application.
Pre-req: BSC 121 with a minimum grade of D and NRE 300 with a minimum grade of D.
Grade Mode: Normal Grading Mode

NRE 401 Horticulture **4 Credit hours**
This course will examine the principles and practices in horticulture and apply these practices through a semester service project.
Pre-req: BSC 121 with a minimum grade of D and NRE 310 with a minimum grade of D.
Grade Mode: Normal Grading Mode

NRE 402 Sustainable Agriculture **3 Credit hours**
This course will examine the principles of sustainable agriculture and its relationship with natural resources while identifying challenges to agricultural sustainability and frontiers in the field.
Pre-req: NRE 200 with a minimum grade of D.
Grade Mode: Normal Grading Mode

NRE 403 Agricultural Entomology **4 Credit hours**
Globally, insects have tremendous impacts on agriculture. This course introduces students to insects and their roles in agriculture including integrated pest management and pollination ecology.
Pre-req: BSC 121 with a minimum grade of D.
Grade Mode: Normal Grading Mode

NRE 423 GIS and Data Systems **3 Credit hours**
Course focuses on the relationships among the scientific method, data structures, and geographic images. Students relate hypothesis formation and databases through the development of ARCMap documents.
Grade Mode: Normal Grading Mode

NRE 425 Water Policy and Regulations **3 Credit hours**
Examination of how aquatic resources are protected for humans and species of concern by current regulatory framework.
Attributes: No Textbook Required
Grade Mode: Normal Grading Mode

NRE 431 Aquatic Toxicology **4 Credit hours**
This course will introduce students to the principles of aquatic toxicology including regulations driving biological criteria, development of laboratory toxicity testing and test methodology.
Pre-req: BSC 105 with a minimum grade of D or BSC 121 with a minimum grade of D or IST 323 with a minimum grade of D or NRE 323 with a minimum grade of D.
Grade Mode: Normal Grading Mode

NRE 435 Biomonitoring **4 Credit hours**
Biomonitoring is the use of organisms to assess habitat and water quality of a stream. Current aquatic biomonitoring focuses on the utilization of benthic invertebrates and fishes communities.
Pre-req: BSC 120 with a minimum grade of D or IST 323 with a minimum grade of D or NRE 323 with a minimum grade of D.
Grade Mode: Normal Grading Mode

NRE 470 ES Internship **3 Credit hours**
A supervised internship in an area of natural resources and the environment.
Attributes: Capstone Course
Grade Mode: Normal Grading Mode

NRE 480 Special Topics **1-4 Credit hours**
A course covering topics not treated in regular course offerings.
Grade Mode: Normal Grading Mode

NRE 481 Special Topics **1-4 Credit hours**
A course covering topics not treated in regular course offerings.
Grade Mode: Normal Grading Mode

NRE 482 Special Topics **1-4 Credit hours**
A course covering topics not treated in regular course offerings.
Grade Mode: Normal Grading Mode

NRE 483 Special Topics **1-4 Credit hours**
A course covering topics not treated in regular course offerings.
Grade Mode: Normal Grading Mode

NRE 485 Independent Study **1-4 Credit hours**
Independent study for selected juniors and seniors under supervision of faculty; may be repeated only once.
Attributes: No Textbook Required
Grade Mode: Normal Grading Mode

NRE 486 Independent Study **1-4 Credit hours**
Independent study for selected juniors and seniors under supervision of faculty; may be repeated only once.
Grade Mode: Normal Grading Mode

NRE 487 Independent Study **1-4 Credit hours**
Independent study for selected juniors and seniors under supervision of faculty; may be repeated only once.
Grade Mode: Normal Grading Mode

NRE 488 Independent Study **1-4 Credit hours**
Independent study for selected juniors and seniors under supervision of faculty; may be repeated only once.
Grade Mode: Normal Grading Mode

NRE 490 ES/NRRM Capstone Prep **3 Credit hours**
Prepares students for the senior project, internship experience, and for careers beyond graduation. Life skills are introduced by building on communication, organization, and project management skills (capstone).
Attributes: No Textbook Required
Grade Mode: Normal Grading Mode

NRE 491 ES Senior Capstone **3 Credit hours**
Students develop and complete a research project under the direction of a faculty member in the NRE department (capstone).
Pre-req: NRE 490 with a minimum grade of D.
Attributes: Capstone Course, No Textbook Required
Grade Mode: Normal Grading Mode

Natural Res Rec Mgt (NRRM)

- General Education Course

NRRM 101 Intro Natural Res & Rec Mgmt **3 Credit hours**
An orientation to the profession and its settings, emphasizing history, trends, concepts, and relationships to other fields.
Grade Mode: Normal Grading Mode

NRRM 110 Outdoor Leadership: Canoeing **1 Credit hour**
This course is designed to give students the skills essential for the pursuit of employment in guiding participants on flat-water canoe courses in backcountry settings.
Grade Mode: Normal Grading Mode

NRRM 111 Outdoor Leadership: Fly Fish **1 Credit hour**
This course is designed to give students the skills essential for the pursuit of being able to guide participants on fly fishing excursions in the backcountry.
Grade Mode: Normal Grading Mode

NRRM 112 Outdoor Leadership: Bass Fish **1 Credit hour**
This course is designed to give students the skills essential to pursue employment as a guide on bass fishing excursions in the backcountry.
Grade Mode: Normal Grading Mode

NRRM 113 Outdoor Leadership: Backpack **1 Credit hour**
This course is designed to give students the foundation skills essential in the pursuit of being leading participants on backcountry backpacking experiences. Leave No Trace ethics will be taught.
Grade Mode: Normal Grading Mode

NRRM 156 Bicycling **1 Credit hour**
Grade Mode: Normal Grading Mode

NRRM 158 Downhill Skiing **1 Credit hour**
Grade Mode: Normal Grading Mode

NRRM 200 Analytical Methods: Statistics **4 Credit hours**
Students develop an understanding of statistical reasoning through the use of software to generate, summarize, and draw conclusions from data. Course enhances statistical technique dexterity through analysis of applied problems.
Grade Mode: Normal Grading Mode

NRRM 201 Recreational Activities **3 Credit hours**
Grade Mode: Normal Grading Mode

NRRM 231 Nature Study **3 Credit hours**
Designed to provide students with the fundamental understanding of and for the delivery of nature based educational programs offered through an experiential framework.
Grade Mode: Normal Grading Mode

NRRM 280 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

NRRM 281 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

NRRM 282 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

NRRM 283 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

NRRM 301 Intro to Outdoor Recreation **3 Credit hours**
Organization, administration, and delivery of outdoor recreation activities and resources. Emphasis upon federal, state, and local government programs and areas.
Grade Mode: Normal Grading Mode

NRRM 310 Environmental Interpretation **3 Credit hours**
Principles and techniques of environmental interpretation as practiced in federal, state, and private agencies.
Grade Mode: Normal Grading Mode

NRRM 311 Intro to Environmental Educ **3 Credit hours**
This course is the study of environmental education, its foundations, emergence in the 1960's, its evolution, the systems approach to it, and the application of it in the field.
Grade Mode: Normal Grading Mode

NRRM 320 Sports & Campus Rec Mgmt **3 Credit hours**
This course will deal with the fields of recreational sports and campus recreation management. It will present the foundations of both fields, the development, implementation, and trends in today's programs.
Grade Mode: Normal Grading Mode

NRRM 330 Concepts Philosophies in NRRM **3 Credit hours**
A systematic approach to the concepts and philosophies for managing wildland, wilderness, and protected areas.
Grade Mode: Normal Grading Mode

NRRM 340 Special Event Managment **3 Credit hours**
This course will study the processes for event facilitation. Special attention will be given to the roles and skills utilized by a variety of recreation managers.
Grade Mode: Normal Grading Mode

NRRM 350 Adventure Education Leadership **3 Credit hours**
This course focuses on preparing students to be outdoor adventure education leaders, facilitating programs in both the front and back country utilizing adventure education techniques in an outdoor setting.
Grade Mode: Normal Grading Mode

NRRM 360 Tourism Planning & Management **3 Credit hours**
The course will examine the critical issues addressed by tourism planning and management, which are the positive and negative influences of tourism on the destination's economy, society, culture, and environment.
Grade Mode: Normal Grading Mode

NRRM 361 Visitor Behavior in NRRM **3 Credit hours**
This course provides an overview and analysis of individual and group behavior as it pertains to consumer activity in the context of recreation and tourism resource environments.
Grade Mode: Normal Grading Mode

NRRM 362 Ecotourism: Admin and Mgmt **3 Credit hours**
This course will examine the theoretical foundations, applications and best management practices in ecotourism. Other minor topics include: sustainability, nature-based and adventure tourism; sociocultural, environmental, and economic impacts of ecotourism.
Grade Mode: Normal Grading Mode

NRRM 380 Rec Resource Oper. and Admin **3 Credit hours**
Focused on the management, operation, and administration practices of recreation resource areas. Includes supervision of personnel, budgeting, and public relations for a variety of park and public land organizational structures.
Grade Mode: Normal Grading Mode

NRRM 400 Leisure & Aging **3 Credit hours**
A course presenting an overview of leisure services for the elderly. Topics include research results, theories, and modern day trends. A wellness model will be included.
Grade Mode: Normal Grading Mode

NRRM 402 Research Eval & Assess in NRRM **3 Credit hours**
Theoretical & practical approach to research, evaluation and assessment of the social sciences of natural resources and recreational management.
Grade Mode: Normal Grading Mode

NRRM 405 Park & Recreation Ecology **3 Credit hours**
The course is designed to help students identify and evaluate the level of resource impact, understand factors that cause impacts, and suggest management actions to minimize impacts under given conditions.
Grade Mode: Normal Grading Mode

NRRM 410 Maint of Nat Res & Rec **3 Credit hours**
A study of the knowledge and skills necessary to supervise and administer the general development and maintenance of park and recreation areas and facilities.
Grade Mode: Normal Grading Mode

NRRM 411 Rec Resource Planning & Design **3 Credit hours**
Basic considerations in the planning and design of natural areas, parks, forests, recreation, and sport area infrastructure, facilities and associated amenities.
Attributes: No Textbook Required
Grade Mode: Normal Grading Mode

NRRM 432 Wilderness/Protected Area Mgmt **3 Credit hours**
This course will examine the historic and current philosophies of wilderness and protected area management as applicable to NGOs, local, state, and federal land management programs.
Grade Mode: Normal Grading Mode

NRRM 433 GIS/RS in Natural Resources **3 Credit hours**
Focusing on natural resource management, the course will explore techniques and procedures required for spatially explicit data analysis in park and protected area applications.
Grade Mode: Normal Grading Mode

NRRM 450 Intro OHV Recreation **3 Credit hours**
Grade Mode: Normal Grading Mode

NRRM 451 Plan Design OHV Trails **3 Credit hours**
Grade Mode: Normal Grading Mode

NRRM 452 Construction OHV Trails **3 Credit hours**
A course designed to instruct students in contemporary methods and techniques of constructing OHV trails and related facilities.
Grade Mode: Normal Grading Mode

NRRM 453 Op Mgt OHV Trail Systems **3 Credit hours**
Grade Mode: Normal Grading Mode

NRRM 480 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

NRRM 481 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

NRRM 482 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

NRRM 483 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

NRRM 484 Special Topics **1-3 Credit hours**
Grade Mode: Normal Grading Mode

NRRM 485 Independent Study **1-4 Credit hours**
Attributes: No Textbook Required
Grade Mode: Normal Grading Mode

NRRM 486 Independent Study **1-4 Credit hours**
Grade Mode: Normal Grading Mode

NRRM 487 Independent Study **1-4 Credit hours**
Grade Mode: Normal Grading Mode

NRRM 488 Independent Study **1-4 Credit hours**
Grade Mode: Normal Grading Mode

NRRM 490 Internship **6 Credit hours**
A supervised 40-hour per week, 6 week internship in which the students work with park and recreation agencies. (PR: NRRM major. Advisor approval required.)
Attributes: Capstone Course, No Textbook Required
Grade Mode: Normal Grading Mode

Nursing (NUR)

- General Education Course

NUR 120 Introduction to Nursing **8 Credit hours**
Indroduce the nursing role and use of the nursing process in assisting adult clients to meet basic needs. Clinical included. Indroduce the nursing role and use of the nursing process in assisting adult clients to meet basic needs. Clinical in- cluded.
Pre-req: BSC 227 with a minimum grade of C and CHM 205 with a minimum grade of C and ENG 101 with a minimum grade of C and PSY 201 with a minimum grade of C and BSC 228 (may be taken concurrently) with a minimum grade of C and DTS 210 (may be taken concurrently) with a minimum grade of C and PSY 311 (may be taken concurrently) with a minimum grade of C.
Concurrent PR: BSC 228 and DTS 210 and PSY 311
Grade Mode: Normal Grading Mode

NUR 200 Intro to Professional Nursing **2 Credit hours**
Introduction to the concepts and processes basic to the nursing profession, including historical and legal aspects, career roles, medical terminology, and practical techniques to prepare for the baccalaureate nursing program.
Grade Mode: Normal Grading Mode

NUR 219 Health Promotion Thru Lifespan **3 Credit hours**
Study of nursing assessment of the individual through the life span in relation to wellness promotion and the impact of illness. Study of nursing assessment of the individual through the life span in relation to wellness promotion and the impact of illness.
Pre-req: (MTH 121 with a minimum grade of C or MTH 121B with a minimum grade of C or MTH 125 with a minimum grade of C or MTH 127 with a minimum grade of C or MTH 130 with a minimum grade of C) and ENG 101 with a minimum grade of C and BSC 227 with a minimum grade of C and BSC 228 with a minimum grade of C and (CHM 203 with a minimum grade of C or CHM 205 with a minimum grade of C) and PSY 201 with a minimum grade of C and NUR 221 (may be taken concurrently) with a minimum grade of C and (CMM 213 with a minimum grade of C or CMM 103 with a minimum grade of C or CMM 104H with a minimum grade of C).
Concurrent PR: NUR 221
Grade Mode: Normal Grading Mode

NUR 220 Health Alterations I **8 Credit hours**
Focus is on nursing care of adult clients responding to potential and actual health alterations. Clinical included. (PR: NUR 120) Focus is on nursing care of adult clients responding to potential and actual health alterations. Clinical included. (PR: NUR 120)
Pre-req: NUR 120 with a minimum grade of C and BSC 250 (may be taken concurrently) with a minimum grade of C.
Concurrent PR: BSC 250
Grade Mode: Normal Grading Mode

NUR 221 Found of Prof Nursing I **5 Credit hours**
Introduction to philosophical and theoretical foundations of nursing, exploration and integration of concepts and processes basic to professional nursing practice. Laboratory included. Introduction to philosophical and theoretical foundations of nursing, exploration and integration of concepts and processes basic to professional nursing practice. Labora- tory included.
Pre-req: (MTH 121 with a minimum grade of C or MTH 121B with a minimum grade of C or MTH 125 with a minimum grade of C or MTH 127 with a minimum grade of C or MTH 130 with a minimum grade of C) and BSC 227 with a minimum grade of C and BSC 228 with a minimum grade of C and (CHM 203 with a minimum grade of C or CHM 205 with a minimum grade of C) and PSY 201 with a minimum grade of C and NUR 219 (may be taken concurrently) with a minimum grade of C and ENG 101 with a minimum grade of C and (CMM 103 with a minimum grade of C or CMM 104H with a minimum grade of C or CMM 213 with a minimum grade of C).
Concurrent PR: NUR 219
Grade Mode: Normal Grading Mode

NUR 222 Found of Prof Nursing II **6 Credit hours**
Introduction to professional nursing practice in relation to potential and simple alterations in health. Practicum included. Introduction to professional nursing practice in relation to potential and simple alterations in health. Practicum included.
Pre-req: NUR 221 with a minimum grade of C and NUR 219 with a minimum grade of C and NUR 319 (may be taken concurrently) with a minimum grade of C and BSC 250 (may be taken concurrently) with a minimum grade of C.
Concurrent PR: NUR 319 and BSC 250
Grade Mode: Normal Grading Mode

NUR 223 Intro Nur Pharm **3 Credit hours**
Focus is on role of the Associate degree nurse in understanding the human response to pharmacological therapy.
Grade Mode: Normal Grading Mode

NUR 225 Psychiatric Nursing **4 Credit hours**
Focus is on the nursing role in caring for clients with alterations of psychosocial functioning. Clinical included. (PR: NUR 220) Focus is on the nursing role in caring for clients with alterations of psychosocial functioning. Clinical included. (PR: NUR 220)
Pre-req: NUR 120 with a minimum grade of C.
Grade Mode: Normal Grading Mode

NUR 230 Health Alterations II **7 Credit hours**
Focus is on nursing care of adult clients with health alterations of specific physiological systems. Role requirements and processes utilized in managing groups of clients in introduced. Clinical included. (PR: NUR 220) 5 hours theory/ 2 hours lab. Focus is on nursing care of adult clients with health alterations of specific physiological systems. Role requirements and processes utilized in managing groups of clients in introduced. Clinical included. (PR: NUR 220) 5 hours theory/ 2 hours lab.
Pre-req: NUR 120 with a minimum grade of C and NUR 220 with a minimum grade of C.
Grade Mode: Normal Grading Mode

NUR 235 Maternal-Child Nursing **6 Credit hours**
Focus is on the nursing role utilized in promoting health and caring for the child bearing family and pediatric clients. Clinical included. (PR: NUR 220) Focus is on the nursing role utilized in promoting health and caring for the child bearing family and pediatric clients. Clinical included. (PR: NUR 220)
Pre-req: NUR 220 with a minimum grade of C and NUR 225 with a minimum grade of C.
Grade Mode: Normal Grading Mode

NUR 241 Health Alterations III **9 Credit hours**
focus is on nursing care of adult clients with health alterations of specific physiological systems. Clinical included. (PR: NUR 230) focus is on nursing care of adult clients with health alterations of specific physiological systems. Clinical included. (PR: NUR 230)
Pre-req: NUR 230 with a minimum grade of C and NUR 235 with a minimum grade of C.
Grade Mode: Normal Grading Mode

NUR 280 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

NUR 281 Special Topics **1-4 Credit hours**
Grade Mode: Credit/No Credit Grade Only

NUR 282 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

NUR 283 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

NUR 305 Concepts in Prof Nursing **4 Credit hours**
Discussion of nursing conceptual models. Dynamic concepts of health, nursing process, change, teaching/learning, research and leadership introduced. Exercises in communication/assertiveness skill development. (PR: Admission to RN to B.S.N. Nursing Program) 4 lec.
Grade Mode: Normal Grading Mode

NUR 318 Family and Chronic Illness **2 Credit hours**
Focus in family nursing theory related to human responses utilizing theoretical models for assessment and health promotion. Included is consideration of the impact of chronic illness.
Pre-req: NUR 305 (may be taken concurrently) with a minimum grade of C or (NUR 219 with a minimum grade of C and NUR 221 with a minimum grade of C) and (ENG 201 with a minimum grade of C or ENG 201H with a minimum grade of C or ENG 200H with a minimum grade of C).
Concurrent PR: NUR 305
Grade Mode: Normal Grading Mode

NUR 319 Phys Assess Across Lifespan **4 Credit hours**
Development of skills in taking health history and performing physical examination of clients throughout the life span. Practicum included. Development of skills in taking health history and perform- ing physical examination of clients throughout the life span. Practicum included.
Pre-req: NUR 221 with a minimum grade of C and NUR 219 with a minimum grade of C and NUR 222 (may be taken concurrently) with a minimum grade of C.
Concurrent PR: NUR 222
Grade Mode: Normal Grading Mode

NUR 321 Care of Childbearing Families **5 Credit hours**
Focus of nursing is on the diagnosis and treatment of human responses to changes that occur in the expanding family. Practicum included. Focus of nursing is on the diagnosis and treatment of human responses to changes that occur in the expanding family. Practicum included.
Pre-req: NUR 222 with a minimum grade of C and NUR 319 with a minimum grade of C and (ENG 201 with a minimum grade of C or ENG 200H with a minimum grade of C or ENG 201H with a minimum grade of C) and BSC 250 with a minimum grade of C and (DTS 314 with a minimum grade of C or DTS 210 with a minimum grade of C) and NUR 318 (may be taken concurrently) with a minimum grade of C.
Concurrent PR: NUR 318
Grade Mode: Normal Grading Mode

NUR 322 Psych / Mental Health Nursing **5 Credit hours**
Focus is upon nursing care of clients of all ages in relation to human responses to psychosocial problems. Focus is upon nursing care of clients of all ages in relation to human responses to psychosocial problems.
Pre-req: NUR 222 with a minimum grade of C and NUR 319 with a minimum grade of C and (ENG 201 with a minimum grade of C or ENG 200H with a minimum grade of C or ENG 201H with a minimum grade of C) and BSC 250 with a minimum grade of C and (DTS 314 with a minimum grade of C or DTS 210 with a minimum grade of C).
Grade Mode: Normal Grading Mode

NUR 327 Adult Nursing I **5 Credit hours**
Focus is on nursing care of clients from young to geriatric adults responding to health problems. Practicum included.
Pre-req: NUR 222 with a minimum grade of C and NUR 319 with a minimum grade of C and ENG 201 with a minimum grade of C and BSC 250 with a minimum grade of C and (DTS 314 with a minimum grade of C or DTS 210 with a minimum grade of C) and NUR 350 (may be taken concurrently) with a minimum grade of C.
Concurrent PR: NUR 350
Grade Mode: Normal Grading Mode

NUR 328 Adult Nursing II **5 Credit hours**
Focus is on nursing care of clients from young to geriatric adults responding to increasingly complex health care problems. Practicum included.
Pre-req: NUR 318 with a minimum grade of C and NUR 327 with a minimum grade of C and NUR 350 with a minimum grade of C.
Grade Mode: Normal Grading Mode

NUR 333 Health Physical Assessment **3 Credit hours**
Focus on providing nurses with the knowledge base and clinical skills necessary to obtain in-depth health histories and complete physical assessments of clients of various ages and cultural backgrounds. (PR: admission to RN to B.S.N. nursing program or Permission)
Pre-req: NUR 305 (may be taken concurrently).
Concurrent PR: NUR 305
Grade Mode: Normal Grading Mode

NUR 350 Pharmacology for Nurses **3 Credit hours**
Focus in on the role of the nurse in drug therapy. Specific drug classifications and prototypical drugs, their actions, effects, and nursing implications are described in-depth.
Pre-req: NUR 222 with a minimum grade of C.
Grade Mode: Normal Grading Mode

NUR 400 Transcultural Nursing **3 Credit hours**
The focus is on health care practices and beliefs of a variety of cultures which interact with the United States health care system. Transcultural nursing theories and concepts are addressed.
Pre-req: NUR 305 (may be taken concurrently) with a minimum grade of C or (NUR 221 with a minimum grade of C and NUR 219 with a minimum grade of C).
Concurrent PR: NUR 305
Attributes: Multicultural
Grade Mode: Normal Grading Mode

NUR 408 Pediatric Nursing **4 Credit hours**
Nursing Care of Children Focus is on nursing care of pediatric clients of all ages and their family's response to common and complex health problems. Practicum included.
Pre-req: NUR 318 with a minimum grade of C and NUR 327 with a minimum grade of C and NUR 350 with a minimum grade of C.
Grade Mode: Normal Grading Mode

NUR 410 Community Nursing for RN **5 Credit hours**
Focus is on the foundations of community-oriented nursing practice for the Registered Nurse with an emphasis on health promotion and disease prevention.
Pre-req: NUR 305 with a minimum grade of C and NUR 318 with a minimum grade of C.
Grade Mode: Normal Grading Mode

NUR 414 Adult Nursing III **5 Credit hours**
Focus is on nursing care of young to geriatric adults responding to health problems requiring critical care intervention. Practicum included.
Pre-req: NUR 328 with a minimum grade of C.
Grade Mode: Normal Grading Mode

NUR 416 Intro Research EBP **3 Credit hours**
Focus is on research as it relates to evidence based practice. This course addresses the steps of research and evidence based practice to provide a basis for nursing practice.
Pre-req: (STA 225 with a minimum grade of C or EDF 417 with a minimum grade of C or MGT 218 with a minimum grade of C or PSY 223 with a minimum grade of C or SOC 345 with a minimum grade of C) and (NUR 305 with a minimum grade of C or NUR 327 with a minimum grade of C).
Grade Mode: Normal Grading Mode

NUR 418 Contemporary Nursing **3 Credit hours**
This course focuses on nursing leadership, cost-based care, and the professional role of the nurse within a complex health care system.
Pre-req: NUR 305 with a minimum grade of C.
Grade Mode: Normal Grading Mode

NUR 419 Prof Nursing Practice **3 Credit hours**
Focus on nursing leadership, the management of patient care, and issues inherent to professional nursing practice.
Pre-req: NUR 328 with a minimum grade of C and NUR 414 (may be taken concurrently) with a minimum grade of C.
Concurrent PR: NUR 414
Grade Mode: Normal Grading Mode

NUR 421 Community / Public Health Nurs **5 Credit hours**
Focus is upon public health principles and nursing practice with opportunity to provide health promotion for clients at risk and long term care for individuals and families in the home. Focus is upon public health principles and nursing practice with opportunity to provide health promotion for clients at risk and long term care for individuals and families in the home.
Pre-req: NUR 321 with a minimum grade of C and NUR 322 with a minimum grade of C and NUR 328 with a minimum grade of C and NUR 350 with a minimum grade of C and NUR 408 with a minimum grade of C.
Grade Mode: Normal Grading Mode

NUR 422 Nursing Capstone Practicum **5 Credit hours**
Focus in on leadership activities related to the roles of the professional nurse: provider of care, coordinator of care, and member of the profession. Practicum included. Focus in on leadership activities related to the roles of the professional nurse: provider of care, coordinator of care, and member of the profession. Practicum included.
Pre-req: (NUR 321 with a minimum grade of C and NUR 322 with a minimum grade of C and NUR 414 with a minimum grade of C and NUR 350 with a minimum grade of C) and NUR 421 (may be taken concurrently) with a minimum grade of C and NUR 425 (may be taken concurrently) with a minimum grade of C.
Concurrent PR: NUR 421 and NUR 425
Attributes: Capstone Course
Grade Mode: Normal Grading Mode

NUR 425 NCLEX Success **3 Credit hours**
The purpose of this course is to assist the student to synthesize the content of the baccalaureate nursing educational program.
Pre-req: NUR 422 (may be taken concurrently) with a minimum grade of C.
Concurrent PR: NUR 422
Attributes: Capstone Course
Grade Mode: Normal Grading Mode

NUR 427 Prof Engagement Nursing **5 Credit hours**
Focus is on evidence based practice and application of theoretical and empirical knowledge to address issues in management, health care policy, ethics, leadership, and health promotion of clients. (PR: NUR 305 and RN licensure; PR/CR: NUR 410, NUR 416, NUR 418))
Pre-req: NUR 410 (may be taken concurrently) with a minimum grade of C and NUR 416 (may be taken concurrently) with a minimum grade of C and NUR 418 (may be taken concurrently) with a minimum grade of C.
Concurrent PR: NUR 410 and NUR 416 and NUR 418
Attributes: Capstone Course
Grade Mode: Normal Grading Mode

NUR 480 Special Topics **1-4 Credit hours**
Study of topics not available in other courses. Study of topics not available in other courses.
Grade Mode: Normal Grading Mode

NUR 481 Special Topics **1-4 Credit hours**
Study of topics not available in other courses. Study of topics not available in other courses.
Grade Mode: Normal Grading Mode

NUR 482 Special Topics **1-4 Credit hours**
Study of topics not available in other courses. Study of topics not available in other courses.
Grade Mode: Normal Grading Mode

NUR 483 Special Topics **1-4 Credit hours**
Study of topics not available in other courses. Study of topics not available in other courses.
Grade Mode: Normal Grading Mode

NUR 485 Independent Study **1-4 Credit hours**
Attributes: No Textbook Required
Grade Mode: Normal Grading Mode

NUR 486 Independent Study **1-4 Credit hours**
Grade Mode: Normal Grading Mode

NUR 487 Independent Study **1-4 Credit hours**
Grade Mode: Normal Grading Mode

NUR 488 Independent Study **1-4 Credit hours**
Grade Mode: Normal Grading Mode

NUR 496 Reading for Honors **2-4 Credit hours**
Attributes: Honors
Grade Mode: Normal Grading Mode

Philosophy (PHL)

- General Education Course

PHL 200 Intro Phil Ancient Period (CT) **3 Credit hours**
The origins of philosophical activity among the Greeks by means of a selective sounding of several major thinkers. The origins of philosophical activity among the Greeks by means of a selective sounding of several major thinkers.
Attributes: Critical Thinking, Core II Humanities, Multicultural
Grade Mode: Normal Grading Mode

PHL 200H Intro Phil Ancient-Honors (CT) **3 Credit hours**
A detailed consideration of selected texts from Ancient philosophy, such as the pre-Socratics, Plato, Aristotle, the Stoics, the Epicureans, the Academic Skeptics, and the neo-Platonists. A detailed consideration of selected texts from Ancient philosophy, such as the pre-Socratics, Plato, Aristotle, the Stoics, the Epicureans, the Academic Skeptics, and the neo-Platonists.
Pre-req: ACT Composite with a score of 26 or SAT Verbal Before March 16 with a score of 600.
Attributes: Critical Thinking, Core II Humanities, Multicultural
Grade Mode: Normal Grading Mode

PHL 201 Intro Phil Modern Period (CT) **3 Credit hours**
Questions and answers concerning the nature of existence and human values and how we come to know them. Questions and answers concerning the nature of existence and human values and how we come to know them.
Attributes: Critical Thinking, Core II Humanities, Multicultural
Grade Mode: Normal Grading Mode

PHL 202 Ethics of Health Care (CT) **3 Credit hours**
A basic introduction to ethical theory, followed by an application of this theory to problems in health care. For students in health care professions and those interested in applied ethics.
Attributes: Critical Thinking, Multicultural
Grade Mode: Normal Grading Mode

PHL 203 Philosophy & Human Exist (CT) **3 Credit hours**
An introduction to philosophy drawing from both ancient and modern thinkers and texts.
Attributes: Critical Thinking, Core II Humanities, Multicultural
Grade Mode: Normal Grading Mode

PHL 215 Managing Life **3 Credit hours**
Philosophical approaches to dealing with life's deep challenges and difficult moments, with the help of some of the great classics of world thought.
Attributes: Critical Thinking, Core II Humanities, Multicultural
Grade Mode: Normal Grading Mode

PHL 250 Humanities and Film (CT) **3 Credit hours**
An interdisciplinary course to introduce students to the elements of a humanistic education through study of film. (Same as Classics 250 and Religious Studies 250; PR or CR: ENG 101)
Pre-req: ENG 101 with a minimum grade of C or ENG 200H (may be taken concurrently) or ENG 201H (may be taken concurrently) or ENG 101P (may be taken concurrently).
Concurrent PR: ENG 101 or ENG 200H or ENG 201H or ENG 101P
Attributes: Critical Thinking, Core II Humanities, Multicultural
Grade Mode: Normal Grading Mode

PHL 270 Intro to Formal Logic (CT) **3 Credit hours**
Introduction to three standard systems of formal logic: traditional categorical syllogistic logic, sentential logic, and first-order predicate logic.
Attributes: Critical Thinking
Grade Mode: Normal Grading Mode

PHL 280 Special Topics **1-4 Credit hours**
Group or individual study of areas demanding further study of a more specialized depth. Group or individual study of areas demanding further study of a more specialized depth.
Grade Mode: Normal Grading Mode

PHL 281 Special Topics **1-4 Credit hours**
Group or individual study of areas demanding further study of a more specialized depth. Group or individual study of areas demanding further study of a more specialized depth.
Grade Mode: Normal Grading Mode

PHL 282 Special Topics **1-4 Credit hours**
Group or individual study of areas demanding further study of a more specialized depth. Group or individual study of areas demanding further study of a more specialized depth.
Grade Mode: Normal Grading Mode

PHL 283 Special Topics **1-4 Credit hours**
Group or individual study of areas demanding further study of a more specialized depth. Group or individual study of areas demanding further study of a more specialized depth.
Grade Mode: Normal Grading Mode

PHL 301 Plato's Republic **3 Credit hours**
A deconstruction of the major time-worn prejudices and presuppositions of Platonism by way of a radical reading of Plato's great dialogue the REPUBLIC.
Grade Mode: Normal Grading Mode

PHL 302 Applied Ethics **3 Credit hours**
The application of basic ethical theories to contemporary moral issues drawn from such fields as medicine, business and the environment.
Grade Mode: Normal Grading Mode

PHL 303 Ethics **3 Credit hours**
A critical study of diverse moral norms, ideals and systems in theory and practice. A critical study of diverse moral norms, ideals and systems in theory and practice.
Grade Mode: Normal Grading Mode

PHL 304 Logic & Interpretation **3 Credit hours**
Theory and practice of valid principles of thinking including developing the skills of justifying diverse types of belief and evaluating reasons for conflicting standpoints (for example, racial, gender, and ethnic differences). Theory and practice of valid principles of thinking including developing the skills of justifying diverse types of belief and evaluating reasons for conflicting stand- points (for example, racial, gender, and ethnic dif- ferences).
Grade Mode: Normal Grading Mode

PHL 306 Philosophy of Art **3 Credit hours**
Examination of the qualities involved in the appreciation of beauty which serve as standards of taste. Examination of the qualities involved in the appreciation of beauty which serve as standards of taste.
Attributes: Multicultural
Grade Mode: Normal Grading Mode

PHL 315 American Philosophy **3 Credit hours**
Great American thinkers, including thinkers such as Emerson (transcendentalism), Peirce, James, Dewey, and Rorty (pragmatism), Royce (idealism), Quine (analytic philosophy), and de Man (post-structuralism). Great American thinkers, including thinkers such as Emerson (transcendentalism), Peirce, James, Dewey, and Rorty (pragmatism), Royce (idealism), Quine (analytic philosophy), and de Man (post-structuralism).
Grade Mode: Normal Grading Mode

PHL 320 Comparative Philosophy **3 Credit hours**
The relations of the world's philosphies to the basic cultural and religious traditions of the world and to the development of the world community. The relations of the world's philosphies to the basic cultural and religious traditions of the world and to the development of the world community.
Attributes: International
Grade Mode: Normal Grading Mode

PHL 321 Current Phil Trends **3 Credit hours**
Selected reading in contemporary thought embracing such movements as realism, Marxism, post-structuralism, deconstruction, and postmodernism. Selected reading in contemporary thought embracing such movements as realism, Marxism, post-structuralism, deconstruction, and postmodernism.
Grade Mode: Normal Grading Mode

PHL 330 Philosophy of Sex **3 Credit hours**
Introduction to some of the basic authors, texts, and themes in this branch of philosophy beginning with Plato's SYMPOSIUM. Introduction to some of the basic authors, texts, and themes in this branch of philosophy beginning with Plato's SYMPOSIUM.
Grade Mode: Normal Grading Mode

PHL 340 Sexual Orient & Gender **3 Credit hours**
An introduction to the philosophy of sexual orientation and its relation to gender, with a special focus on issues of knowledge and politics. An introduction to the philosophy of sexual orientation and its relation to gender, with a special focus on issues of knowledge and politics.
Attributes: Multicultural
Grade Mode: Normal Grading Mode

PHL 353 Philosophy of Science **3 Credit hours**
Reflections on crucial concepts of modern science relevant to philosophical issues in interpreting man and the universe; special attention given to epistemological and other problems of mathematics and physical and social sciences. Reflections on crucial concepts of modern science relevant to philosophical issues in interpreting man and the uni- verse; special attention given to epistemological and other problems of mathematics and physical and social sciences.
Attributes: Multicultural
Grade Mode: Normal Grading Mode

PHL 363 Philosophy of Feminism **3 Credit hours**
An introduction to contemporary feminist theory including discussion of current gender-related issues. An introduction to contemporary feminist theory including discussion of current gender-related issues.
Attributes: Multicultural
Grade Mode: Normal Grading Mode

PHL 392 Junior Seminar **3 Credit hours**
Pre-req: ENG 102 or ENG 302 or ENG 201H or ENG 200H or YGS 162 or IST 201 or CL 231 or CL 232 or CL 319 or PHL 200 or PHL 200H or PHL 201 or PHL 201E or PHL 303 or PHL 321 or PHL 303E or PHL 340 or PHL 353 or RST 205 or RST 206 or RST 300 or RST 304 or RST 320 or RST 325.
Grade Mode: Normal Grading Mode

PHL 393 Junior Seminar **3 Credit hours**
Pre-req: ENG 102 with a minimum grade of D or ENG 302 with a minimum grade of D or ENG 201H with a minimum grade of D or ENG 200H with a minimum grade of D or YGS 162 with a minimum grade of D or IST 201 with a minimum grade of D or CL 231 with a minimum grade of D or CL 232 with a minimum grade of D or CL 319 with a minimum grade of D or PHL 200 with a minimum grade of D or PHL 200H with a minimum grade of D or PHL 201 with a minimum grade of D or PHL 201E with a minimum grade of D or PHL 303 with a minimum grade of D or PHL 303E with a minimum grade of D or PHL 321 with a minimum grade of D or PHL 340 with a minimum grade of D or PHL 353 with a minimum grade of D or RST 205 with a minimum grade of D or RST 206 with a minimum grade of D or RST 300 with a minimum grade of D or RST 304 with a minimum grade of D or RST 320 with a minimum grade of D or RST 325 with a minimum grade of D.
Grade Mode: Normal Grading Mode

PHL 400 Ancient Philosophy **3 Credit hours**
Advanced study of major philosophers drawn from the ancient Greek and Roman period. Advanced study of major philosophers drawn from the ancient Greek and Roman period.
Grade Mode: Normal Grading Mode

PHL 401 Modern Philosophy **3 Credit hours**
Advanced study of major movements in philosophy from the 17th century on, movements such as rationalism, empiricism, idealism, and existentialism.
Pre-req: PHL 201 or PHL 201E.
Grade Mode: Normal Grading Mode

PHL 420 Metaphysics **3 Credit hours**
Advanced study of the most basic nature of reality. (PR: 3 hrs. of philosophy). Advanced study of the most basic nature of reality. (PR: 3 hrs. of philosophy).
Grade Mode: Normal Grading Mode

PHL 421 Philosophy of Knowledge **3 Credit hours**
Advanced study of the nature and possibility of knowledge. Advanced study of the nature and possibility of knowledge.
Grade Mode: Normal Grading Mode

PHL 451 Phil of History & Culture **3 Credit hours**
Ancient and modern theories of the meaning and consequence of history and culture. Ancient and modern theories of the meaning and consequence of history and culture.
Grade Mode: Normal Grading Mode

PHL 455 Philosophy of Religion **3 Credit hours**
Theories of the nature and functions of religion, including the meaning of religious language and the problems of belief. Theories of the nature and functions of religion, including the meaning of religious language and the problems of belief.
Grade Mode: Normal Grading Mode

PHL 460 Phil of Politics & Power **3 Credit hours**
Advanced study of the significance or the place in human reality of political organization, negotiation, strategy and power.
Grade Mode: Normal Grading Mode

PHL 465 Existential Philosophy **3 Credit hours**
A study of existential philosophers from Kierkegaard to Heidegger, Sartre and beyond. A study of existential philosophers from Kierkegaard to Heidegger, Sartre and beyond.
Grade Mode: Normal Grading Mode

PHL 470 Philosophy of Logic **3 Credit hours**
Advanced study of the nature of logic: whether logic is possible at all, how far it applies, and whether and how there can be conflicting logics.
Grade Mode: Normal Grading Mode

PHL 480 Special Topics **1-4 Credit hours**
Shared study and reserach on a special topic as announced. Shared study and reserach on a special topic as announced.
Grade Mode: Normal Grading Mode

PHL 481 Special Topics **1-4 Credit hours**
Shared study and research on a special topic as announced. Shared study and research on a special topic as announced.
Grade Mode: Normal Grading Mode

PHL 482 Special Topics **1-4 Credit hours**
Shared study and research on a special topic as announced. Shared study and research on a special topic as announced.
Grade Mode: Normal Grading Mode

PHL 483 Special Topics **1-4 Credit hours**
Shared study and research on a special topic as announced. Shared study and research on a special topic as announced.
Grade Mode: Normal Grading Mode

PHL 485 Independent Study **1-4 Credit hours**
Grade Mode: Normal Grading Mode

PHL 486 Independent Study **1-4 Credit hours**
Grade Mode: Normal Grading Mode

PHL 487 Independent Study **1-4 Credit hours**
Grade Mode: Normal Grading Mode

PHL 488 Independent Study **1-4 Credit hours**
Attributes: No Textbook Required
Grade Mode: Normal Grading Mode

PHL 490 Senior Seminar in Humanities **3 Credit hours**
Designed for majors as a senior humanities seminar and the culminating interdisciplinary study in the humanities program. (Same as CL 490 - 494 and RST 490 - 494)
Pre-req: ENG 102 with a minimum grade of D or ENG 302 with a minimum grade of D or ENG 201H with a minimum grade of D or ENG 200H with a minimum grade of D or YGS 162 with a minimum grade of D or IST 201 with a minimum grade of D or CL 231 with a minimum grade of D or CL 232 with a minimum grade of D or CL 233 with a minimum grade of D or CL 319 with a minimum grade of D or PHL 200 with a minimum grade of D or PHL 200H with a minimum grade of D or PHL 201 with a minimum grade of D or PHL 303 with a minimum grade of D or PHL 321 with a minimum grade of D or PHL 340 with a minimum grade of D or PHL 353 with a minimum grade of D or RST 205 with a minimum grade of D or RST 206 with a minimum grade of D or RST 300 with a minimum grade of D or RST 304 with a minimum grade of D or RST 320 with a minimum grade of D or RST 325 with a minimum grade of D.
Grade Mode: Normal Grading Mode

PHL 491 Senior Seminar in Humanities **3 Credit hours**
Designed for majors as a senior humanities seminar and the culminating interdisciplinary study in the humanities program. (Same as CL 490 - 494 and RST 490 - 494)
Pre-req: ENG 102 or ENG 302 or ENG 201H or ENG 200H or YGS 162 or IST 201 or CL 231 or CL 232 or CL 233 or CL 319 or PHL 200 or PHL 200H or PHL 201 or PHL 303 or PHL 321 or PHL 340 or PHL 353 or RST 205 or RST 206 or RST 300 or RST 304 or RST 320 or RST 325.
Grade Mode: Normal Grading Mode

PHL 492 Senior Seminar in Humanities **3 Credit hours**
Designed for majors as a senior humanities seminar and the culminating interdisciplinary study in the humanities program. (Same as CL 490 - 494 and RST 490 - 494)
Pre-req: ENG 102 or ENG 302 or ENG 201H or ENG 200H or YGS 162 or IST 201 or CL 231 or CL 232 or CL 233 or CL 319 or PHL 200 or PHL 200H or PHL 201 or PHL 303 or PHL 340 or PHL 321 or PHL 353 or RST 205 or RST 206 or RST 300 or RST 304 or RST 320 or RST 325.
Grade Mode: Normal Grading Mode

PHL 494 Senior Seminar in Humanities **3 Credit hours**
Designed for majors as a senior humanities seminar and the culminating interdisciplinary study in the humanities program. (Same as CL 490 - 494 and RST 490 -494)
Pre-req: ENG 102 or ENG 302 or ENG 201H or ENG 200H or YGS 162 or IST 201 or CL 231 or CL 232 or CL 233 or CL 319 or PHL 200 or PHL 200H or PHL 201 or PHL 303 or PHL 321 or PHL 340 or PHL 353 or RST 205 or RST 206 or RST 300 or RST 304 or RST 320 or RST 325 or ENG 201.
Grade Mode: Normal Grading Mode

Phys Ed Lifetime Activities (PEL)

- General Education Course

PEL 100 Beginning Swimming **1 Credit hour**
Attributes: No Textbook Required, PE Activity
Grade Mode: Normal Grading Mode

PEL 113 Basketball **1 Credit hour**
Attributes: No Textbook Required, PE Activity
Grade Mode: Normal Grading Mode

PEL 114 Beginning Archery **1 Credit hour**
Attributes: PE Activity
Grade Mode: Normal Grading Mode

PEL 115 Body Condition W/Weights **1 Credit hour**
Attributes: No Textbook Required, PE Activity
Grade Mode: Normal Grading Mode

PEL 116 Beginning Wrestling **1 Credit hour**
Attributes: PE Activity
Grade Mode: Normal Grading Mode

PEL 117 Riflery **1 Credit hour**
Attributes: PE Activity
Grade Mode: Normal Grading Mode

PEL 118 Indoor Cycling **1 Credit hour**
Designed to promote fitness through spinning.
Attributes: No Textbook Required
Grade Mode: Normal Grading Mode

PEL 119 Total Body Conditioning **1 Credit hour**
Designed to help instruct both men and women with a variety of lifetime fitness activities.
Grade Mode: Normal Grading Mode

PEL 120 Self Defense **1 Credit hour**
Attributes: No Textbook Required, PE Activity
Grade Mode: Normal Grading Mode

PEL 121 Taekwondo **2 Credit hours**
Attributes: No Textbook Required, PE Activity
Grade Mode: Normal Grading Mode

PEL 125 Beginning Gymnastics **1 Credit hour**
Attributes: PE Activity
Grade Mode: Normal Grading Mode

PEL 127 Aerobics-Personal Fitness **1 Credit hour**
Attributes: PE Activity
Grade Mode: Normal Grading Mode

PEL 132 Beginning Volleyball **1 Credit hour**
Attributes: No Textbook Required, PE Activity
Grade Mode: Normal Grading Mode

PEL 133 Beginning Softball **1 Credit hour**
Attributes: No Textbook Required, PE Activity
Grade Mode: Normal Grading Mode

PEL 140 Beginning Tennis **1 Credit hour**
Attributes: No Textbook Required, PE Activity
Grade Mode: Normal Grading Mode

PEL 141 Beginning Golf **1 Credit hour**
Attributes: PE Activity
Grade Mode: Normal Grading Mode

PEL 142 Beginning Badminton **1 Credit hour**
Attributes: No Textbook Required, PE Activity
Grade Mode: Normal Grading Mode

PEL 145 Beginning Bowling **1 Credit hour**
Attributes: PE Activity
Grade Mode: Normal Grading Mode

PEL 147 Beginning Soccer **1 Credit hour**
Attributes: No Textbook Required, PE Activity
Grade Mode: Normal Grading Mode

PEL 155 Beginning Folk Dance **1 Credit hour**
Attributes: PE Activity
Grade Mode: Normal Grading Mode

PEL 156 Beginning Square Dance **1 Credit hour**
Attributes: PE Activity
Grade Mode: Normal Grading Mode

PEL 159 Beginning Social Dance **1 Credit hour**
Attributes: PE Activity
Grade Mode: Normal Grading Mode

PEL 170 Beginning Racquetball **1 Credit hour**
Attributes: No Textbook Required, PE Activity
Grade Mode: Normal Grading Mode

PEL 171 Beginning Handball **1 Credit hour**
Attributes: PE Activity
Grade Mode: Normal Grading Mode

PEL 173 Rock Climbing **1 Credit hour**
Through activity, the students will learn the fundamentals and techniques of rock climbing.
Attributes: No Textbook Required, PE Activity
Grade Mode: Normal Grading Mode

PEL 175 Core Conditioning **1 Credit hour**
Designed to help instruct both men and women on numerous activities to help strengthen the abdominal region of the body which can then be incorporated into their workout program.
Attributes: No Textbook Required, PE Activity
Grade Mode: Normal Grading Mode

PEL 180 Yoga **1 Credit hour**
Attributes: No Textbook Required, PE Activity
Grade Mode: Normal Grading Mode

PEL 205 Intermediate Swimming **1 Credit hour**
Attributes: No Textbook Required, PE Activity
Grade Mode: Normal Grading Mode

PEL 220 Advanced Self Defense **1 Credit hour**
Builds on techniques and strategies from PEL 120, adds defenses against the edged weapon and firearm. Course covers more prone defense strategies, multiple subject encounters and low and diffused light simulation.
Pre-req: PEL 120 with a minimum grade of D.
Attributes: No Textbook Required, PE Activity
Grade Mode: Normal Grading Mode

PEL 232 Intermediate Volleyball **1 Credit hour**
Attributes: No Textbook Required, PE Activity
Grade Mode: Normal Grading Mode

PEL 233 Intermediate Gymnastics **1 Credit hour**
Attributes: PE Activity
Grade Mode: Normal Grading Mode

PEL 234 Intermediate Wrestling **1 Credit hour**
Attributes: PE Activity
Grade Mode: Normal Grading Mode

PEL 235 Intermediate Softball **1 Credit hour**
Attributes: PE Activity
Grade Mode: Normal Grading Mode

PEL 240 Intermediate Tennis **1 Credit hour**
Attributes: PE Activity
Grade Mode: Normal Grading Mode

PEL 242 Intermediate Badminton **1 Credit hour**
Attributes: PE Activity
Grade Mode: Normal Grading Mode

PEL 243 Intermediate Basketball **1 Credit hour**
Attributes: PE Activity
Grade Mode: Normal Grading Mode

PEL 245 Intermediate Bowling **1 Credit hour**
Attributes: PE Activity
Grade Mode: Normal Grading Mode

PEL 251 Intermediate Soccer **1 Credit hour**
Attributes: No Textbook Required, PE Activity
Grade Mode: Normal Grading Mode

PEL 252 Touch Football **1 Credit hour**
Attributes: No Textbook Required, PE Activity
Grade Mode: Normal Grading Mode

PEL 258 Intermediate Square Dance **1 Credit hour**
Attributes: PE Activity
Grade Mode: Normal Grading Mode

PEL 259 Intermediate Social Dance **1 Credit hour**
Attributes: PE Activity
Grade Mode: Normal Grading Mode

PEL 270 Intermediate Racquetball **1 Credit hour**
Attributes: PE Activity
Grade Mode: Normal Grading Mode

PEL 271 Intermediate Handball **1 Credit hour**
Attributes: PE Activity
Grade Mode: Normal Grading Mode

PEL 275 Scuba Diving **2 Credit hours**
Attributes: PE Activity
Grade Mode: Normal Grading Mode

PEL 280 Special Topics **1-4 Credit hours**
Attributes: No Textbook Required, PE Activity
Grade Mode: Normal Grading Mode

PEL 281 Special Topics **1-4 Credit hours**
Attributes: No Textbook Required, PE Activity
Grade Mode: Normal Grading Mode

PEL 282 Special Topics **1-4 Credit hours**
Attributes: No Textbook Required, PE Activity
Grade Mode: Normal Grading Mode

PEL 283 Special Topics **1-4 Credit hours**
Attributes: No Textbook Required, PE Activity
Grade Mode: Normal Grading Mode

PEL 290 Intermediate Yoga **1 Credit hour**
This course is an intermediate yoga class building off of beginning yoga. It will focus on poses, breathing, relaxation, and meditation.
Pre-req: PEL 180 with a minimum grade of D.
Grade Mode: Normal Grading Mode

PEL 403 Adv Swim & Life Saving **1 Credit hour**
Attributes: PE Activity
Grade Mode: Normal Grading Mode

PEL 404 Water Safety Instruction **1 Credit hour**
Attributes: PE Activity
Grade Mode: Normal Grading Mode

PEL 405 Lifeguarding **1 Credit hour**
Attributes: No Textbook Required, PE Activity
Grade Mode: Normal Grading Mode

Physical Science (PS)

- General Education Course

PS 101 Introductory Astronomy (CT) **4 Credit hours**
A survey of the past, present, and future of the Universe, from our solar system, to the nearby stars, our Milky Way galaxy and far beyond.
Attributes: Critical Thinking, Core II Natural Sciences
Grade Mode: Normal Grading Mode

PS 109 General Physical Science **3 Credit hours**
The course covers the basic principles and concepts of the universe including energy, and its various forms. Force, motion, electricity, magnetism, the wave theory of light and sound and astronomy are also studied. The course covers the basic principles and concepts of the universe including energy, and its various forms. Force, motion, electricity, magnetism, the wave theory of light and sound and astronomy are also studied.
Pre-req: MTH 121 or MTH 123 or MTH 127 or MTH 130 or MTH 130E or MTH 229 or MTH 229H or MTH 203 or MTH 121B or MTH 130H.
Co-req: PS 109L
Attributes: Natural Sciences, Core II Natural Sciences
Grade Mode: Normal Grading Mode

PS 109L Gen Physical Science Lab **1 Credit hour**
Selected experiments relating to measurement, force, work, energy, astronomy, light and electricity. Selected experiments relating to measurement, force, work, energy, astronomy, light and electricity.
Co-req: PS 109
Attributes: Natural Sciences, Core II Natural Sciences
Grade Mode: Normal Grading Mode

PS 110 General Physical Science **3 Credit hours**
The course covers the basic principles and concepts of chemistry, geology, and metorology. The crust of the earth, minerals, rocks, chemical reactions are studied. The course covers the basic principles and concepts of chemistry, geology, and metorology. The crust of the earth, minerals, rocks, chemical reactions are studied.
Pre-req: MTH 121 or MTH 121H or MTH 123 or MTH 123E or MTH 127 or MTH 130 or MTH 130H or MTH 130E or MTH 140 or MTH 203 or MTH 220 or MTH 225 or MTH 229 or MTH 229H or MTH 121B.
Co-req: PS 110L
Attributes: Natural Sciences, Core II Natural Sciences
Grade Mode: Normal Grading Mode

PS 110L Gen Physical Science Lab **1 Credit hour**
Selected experiments relating to chemistry, geology, and meteorology. Selected experiments relating to chemistry, geology, and meteorology.
Co-req: PS 110
Attributes: Natural Sciences, Core II Natural Sciences
Grade Mode: Normal Grading Mode

PS 111 Life in the Universe **4 Credit hours**
An investigation of the prospects for the existence of life elsewhere in our solar system, galaxy, and the wider Universe. Includes an integrated 2 hour lab.
Attributes: Core II Natural Sciences
Grade Mode: Normal Grading Mode

PS 120 PS for Teachers: Planets **3 Credit hours**
A conceptual study of the Earth's relation to the other members of the solar system and its place in the Universe. (Part of a 3 course sequence for K-9 education majors).
Grade Mode: Normal Grading Mode

PS 121 PS for Teachers: Chemistry **3 Credit hours**
PS 121 is a part of a 3 course sequence of Physical Science for K-9 Education majors. Includes 2-hr, 1 credit lab.
Pre-req: MTH 127 or MTH 130 or MTH 132 or MTH 140 or MTH 229.
Grade Mode: Normal Grading Mode

PS 122 PS for Teachers: Physics **3 Credit hours**
PS 122 is part of a 3 course sequence of Physical Science for K-9 Education majors. Includes 2-hr, 1 credit lab.
Pre-req: MTH 127 or MTH 130 or MTH 132 or MTH 140 or MTH 229.
Grade Mode: Normal Grading Mode

PS 280 Special Topics **1-4 Credit hours**
Attributes: Natural Sciences
Grade Mode: Normal Grading Mode

PS 281 Special Topics **1-4 Credit hours**
Attributes: Natural Sciences
Grade Mode: Normal Grading Mode

PS 282 Special Topics **1-4 Credit hours**
Attributes: Natural Sciences
Grade Mode: Normal Grading Mode

PS 283 Special Topics **1-4 Credit hours**
Attributes: Natural Sciences
Grade Mode: Normal Grading Mode

PS 325 Dev Scientific Thought **4 Credit hours**
An introduction to the history and nature of science emphasizing the logic of scientific reasoning and progress with social and historical influences. Includes lab. An introduction to the history and nature of science emphasizing the logic of scientific reasoning and progress with social and historical influences. Includes lab.
Attributes: Natural Sciences
Grade Mode: Normal Grading Mode

PS 400 Astronomy **3 Credit hours**
A study of the stars, planets, and galaxies, planetary motion, cosmology, cosmography. Designed to assist teachers and others to develop an interest in astronomy. A study of the stars, planets, and galaxies, planetary motion, cosmology, cosmography. Designed to assist teachers and others to develop an interest in astronomy.
Pre-req: PS 109 or PHY 201 or PHY 211 and PS 400L (may be taken concurrently).
Concurrent PR: PS 400L
Co-req: PS 400L
Attributes: Natural Sciences
Grade Mode: Normal Grading Mode

PS 400L Astronomy Laboratory **1 Credit hour**
A computational and observational laboratory. Fundamental observations in astronomy and their interpretation through physical laws. Quantitative discussion of orbital motion, time, telescopes, solar system, stars, and galaxies. A computational and observational laboratory. Fundamental observations in astronomy and their interpretation through physical laws. Quantitative discussion of orbital motion, time, telescopes, solar system, stars, and galaxies.
Co-req: PS 400
Attributes: Natural Sciences
Grade Mode: Normal Grading Mode

PS 410 Remote Sensing w Applications **4 Credit hours**
A study of the physical systems for collecting remotely sensed data. Statistical/spatial analysis and modeling using image processing/geographic information/spatial analysis computer software systems with earth resource applications. (PR: PHY 203 and PHY 204) A study of the physical systems for collecting remotely sensed data. Statistical/spatial analysis and modeling using image processing/geographic information/spatial analysis computer software systems with earth resource applications. (PR: PHY 203 and PHY 204)
Pre-req: PHY 203 and PHY 204.
Attributes: Natural Sciences
Grade Mode: Normal Grading Mode

PS 411 Image Processing/Modeling **4 Credit hours**
A study of image processing/geographic information and spatial analysis hardware/software systems, concurrent and parallel image processing modeling scenarios utilizing geobiophysical data for computer simulation modeling and practicum.
Pre-req: PS 410.
Attributes: Natural Sciences
Grade Mode: Normal Grading Mode

PS 470 Practicum **4 Credit hours**
Problem solving, geobiophysical modeling, and proposal development techniques in the physical sciences.
Pre-req: PS 411 or PHY 411.
Attributes: Natural Sciences
Grade Mode: Normal Grading Mode

PS 480 Special Topics **1-4 Credit hours**
Attributes: Natural Sciences
Grade Mode: Normal Grading Mode

PS 481 Special Topics **1-4 Credit hours**
Attributes: Natural Sciences
Grade Mode: Normal Grading Mode

PS 482 Special Topics **1-4 Credit hours**
Attributes: Natural Sciences
Grade Mode: Normal Grading Mode

PS 483 Special Topics **1-4 Credit hours**
Attributes: Natural Sciences
Grade Mode: Normal Grading Mode

PS 485 Independent Study **1-4 Credit hours**
Attributes: Natural Sciences
Grade Mode: Normal Grading Mode

PS 486 Independent Study **1-4 Credit hours**
Attributes: No Textbook Required, Natural Sciences
Grade Mode: Normal Grading Mode

PS 487 Independent Study **1-4 Credit hours**
Attributes: Natural Sciences
Grade Mode: Normal Grading Mode

PS 488 Independent Study **1-4 Credit hours**
Attributes: Natural Sciences
Grade Mode: Normal Grading Mode

Physics (PHY)

- General Education Course

PHY 101 Conceptual Physics **3 Credit hours**
Introduces nonscience majors to applications of physics in life. Emphasizes conceptual understanding of basic principles in classical and modern physics. Recommended for science students with no high school physics.
Pre-req: (MTH 121 with a minimum grade of D or MTH 127 with a minimum grade of D or MTH 130 with a minimum grade of D or MTH 130E with a minimum grade of D or MTH 132 with a minimum grade of D or MTH 229 with a minimum grade of D or MTH 229H with a minimum grade of D or MTH 203 with a minimum grade of D or MTH 121B with a minimum grade of D) or MTH 130H with a minimum grade of D and PHY 101L (may be taken concurrently) with a minimum grade of D.
Concurrent PR: PHY 101L
Co-req: PHY 101L
Attributes: Natural Sciences, Core II Natural Sciences
Grade Mode: Normal Grading Mode

PHY 101L Conceptual Physics Lab **1 Credit hour**
Conceptual Physics Laboratory. A laboratory course designed to include the principles and applications of physics that are introduced in Physics 101. (CR: PHY 101) 2 lab. Conceptual Physics Laboratory. A laboratory course designed to include the principles and applications of physics that are introduced in Physics 101. (CR: PHY 101) 2 lab.
Co-req: PHY 101
Attributes: Natural Sciences, Core II Natural Sciences
Grade Mode: Normal Grading Mode

PHY 190 Overview of Physics (CT) **3 Credit hours**
An algebra-based overview of well-established topics studied as part of a major in physics, including classical physics, special relativity, quantum mechanics, particle physics, and cosmology.
Attributes: Critical Thinking
Grade Mode: Normal Grading Mode

PHY 201 College Physics I **3 Credit hours**
First half of an introduction to physics for life-science students, using algebra and trigonometry, including kinematics and dynamics, force, energy, rotation, fluids, waves, and therma phenomena.
Pre-req: (MTH 127 with a minimum grade of D and MTH 122 with a minimum grade of D) or (MTH 130 with a minimum grade of D and MTH 122 with a minimum grade of D) or MTH 132 with a minimum grade of D or (MTH 140 with a minimum grade of D and MTH 122 with a minimum grade of D) or MTH 229 with a minimum grade of D or MTH 229H with a minimum grade of D or MTH 140H with a minimum grade of D and PHY 202 (may be taken concurrently) with a minimum grade of D.
Concurrent PR: PHY 202
Attributes: Natural Sciences, Core II Natural Sciences
Grade Mode: Normal Grading Mode

PHY 202 General Physics I Laboratory **1 Credit hour**
Laboratory to accompany PHY 201 or PHY 211, focusing on mechanics concepts and applications.
Pre-req: PHY 201 (may be taken concurrently) with a minimum grade of D or PHY 211 (may be taken concurrently) with a minimum grade of D.
Concurrent PR: PHY 201 or PHY 211
Attributes: Natural Sciences, Core II Natural Sciences
Grade Mode: Normal Grading Mode

PHY 203 College Physics II **3 Credit hours**
Second half of an introduction to physics for life-science students, using algebra and trigonometry, including electric and magnetic fields, circuits, geometrical and physical optics, atomic and nuclear physics.
Pre-req: (PHY 201 with a minimum grade of C and PHY 202 with a minimum grade of C) and PHY 204 (may be taken concurrently) with a minimum grade of C.
Concurrent PR: PHY 204
Attributes: Natural Sciences, Core II Natural Sciences
Grade Mode: Normal Grading Mode

PHY 204 General Physics 2 Laboratory **1 Credit hour**
Laboratory to accompany PHY 203 or PHY 213, focusing on classical E&M, circuits, and optics.
Pre-req: (PHY 203 (may be taken concurrently) with a minimum grade of D or PHY 213 (may be taken concurrently) with a minimum grade of D).
Concurrent PR: PHY 203 or PHY 213
Attributes: Natural Sciences, Core II Natural Sciences
Grade Mode: Normal Grading Mode

PHY 211 University Physics I **4 Credit hours**
First half of an introduction to physics for physical science and engineering students, using calculus, and including kinematics and dynamics, force, energy, rotation, fluids, waves, and thermal phenomena.
Pre-req: (MTH 229 (may be taken concurrently) with a minimum grade of D or MTH 229H (may be taken concurrently) with a minimum grade of D) and PHY 202 (may be taken concurrently) with a minimum grade of D.
Concurrent PR: (MTH 229 or MTH 229H) and PHY 202
Attributes: Natural Sciences, Core II Natural Sciences
Grade Mode: Normal Grading Mode

PHY 213 University Physics II **4 Credit hours**
Second half of an introduction to physics for physical science or engineering students, using calculus, including electric and magnetic fields, circuits, geometrical and physical optics, atomic and nuclear physics.
Pre-req: MTH 230 (may be taken concurrently) and PHY 204 (may be taken concurrently) and (PHY 201 with a minimum grade of C or PHY 211 with a minimum grade of C) and PHY 202.
Concurrent PR: MTH 230 and PHY 204
Attributes: Natural Sciences, Core II Natural Sciences
Grade Mode: Normal Grading Mode

PHY 214 Lab Methods in Physics **1 Credit hour**
A laboratory course to accompany Physics 211-213. 3 lab. A laboratory course to accompany Physics 211-213. 3 lab.
Pre-req: PHY 213 (may be taken concurrently).
Concurrent PR: PHY 213
Attributes: Natural Sciences, Core II Natural Sciences
Grade Mode: Normal Grading Mode

PHY 222 Investigate the Universe **2 Credit hours**
A creative laboratory course designed to give students an opporutnity to work with modern research equipment, with ample time to conduct experiments and/or investigate phenomenae of their choosing.
Pre-req: (MTH 122 and MTH 127) or (MTH 122 and MTH 130) or MTH 132.
Grade Mode: Normal Grading Mode

PHY 261 Enhancement for Physics I **1 Credit hour**
Additional aspects in mechanics (calculus, array vectors and matrices, distributions), to make College Physics 1 equivalent to University Physics 1.
Pre-req: PHY 201 with a minimum grade of C or MTH 229 with a minimum grade of C.
Grade Mode: Normal Grading Mode

PHY 263 Enhancement for Physics II **1 Credit hour**
Additional aspects in E&M and Optics, Modern Physics, (calculus and multipole functions) to make College Physics 2 equivalent to University Physics 2.
Grade Mode: Normal Grading Mode

PHY 280 Special Topics **1-4 Credit hours**
Attributes: Natural Sciences
Grade Mode: Normal Grading Mode

PHY 281 Special Topics **1-4 Credit hours**
Attributes: Natural Sciences
Grade Mode: Normal Grading Mode

PHY 300 Electricity & Magnetism **3 Credit hours**
A course including the study of electrostatics, magnetostatics, electromagnetic induction, introduction to Maxwell's equations and electromagnetic waves. 3 lec. A course including the study of electrostatics, magneto- statics, electromagnetic induction, introduction to Maxwell's equations and electromagnetic waves. 3 lec.
Pre-req: (PHY 203 or PHY 213) and MTH 231.
Attributes: Natural Sciences
Grade Mode: Normal Grading Mode

PHY 302 Electricity & Magnetism II **3 Credit hours**
A study of Maxwell's equations and electromagnetic waves, radiation theory, optical phenomena, and electrodynamics. 3 lec. A study of Maxwell's equations and electromagnetic waves, radiation theory, optical phenomena, and electrodynamics. 3 lec.
Pre-req: PHY 300.
Attributes: Natural Sciences
Grade Mode: Normal Grading Mode

PHY 304 Optics **3 Credit hours**
An intermediate course in geometrical and physical optics. 3 lec. An intermediate course in geometrical and physical optics. 3 lec.
Pre-req: (PHY 203 or PHY 213) and (PHY 405 (may be taken concurrently) or PHY 505 (may be taken concurrently)).
Concurrent PR: PHY 405 or PHY 505
Attributes: Natural Sciences
Grade Mode: Normal Grading Mode

PHY 308 Thermal Physics **3 Credit hours**
A study of thermodynamics, kinetic theory of gases, and an introduction to statistical mechanics 3 lec.
Pre-req: (PHY 203 or PHY 213) and MTH 231.
Attributes: Natural Sciences
Grade Mode: Normal Grading Mode

PHY 314 Electronic Physics **3 Credit hours**
A study of transistors, integrated circuits and their associated circuits. 3 lec. A study of transistors, integrated circuits and their associated circuits. 3 lec.
Pre-req: PHY 203 with a minimum grade of D or PHY 213 with a minimum grade of D and PHY 415 (may be taken concurrently) with a minimum grade of D.
Concurrent PR: PHY 415
Attributes: Natural Sciences
Grade Mode: Normal Grading Mode

PHY 320 Intro Modern Physics **3 Credit hours**
An introductory study of atomic and molecular theories, relativity, quantum theory, and nuclear physics. 3 lec. An introductory study of atomic and molecular theories, relativity, quantum theory, and nuclear physics. 3 lec.
Pre-req: MTH 230 and (PHY 203 or PHY 213).
Co-req: PHY 421
Attributes: Natural Sciences
Grade Mode: Normal Grading Mode

PHY 330 Mechanics **3 Credit hours**
An intermediate study of the fundamental principles of statics of particles and rigid bodies, momentum and energy, dynamics of particles, harmonic oscillations, and wave motion. 3 lec. An intermediate study of the fundamental principles of statics of particles and rigid bodies, momentum and energy, dynamics of particles, harmonic oscillations, and wave motion. 3 lec.
Pre-req: MTH 231 and (PHY 203 or PHY 213).
Attributes: Natural Sciences
Grade Mode: Normal Grading Mode

PHY 340 Scientific Computing **3 Credit hours**
Introduction to some of the most important tools and techniques in scientific computing, including object-oriented design, version control, and MPI for high-performance computing.
Pre-req: MTH 229 with a minimum grade of D or MTH 229H with a minimum grade of D or IST 163 with a minimum grade of D.
Grade Mode: Normal Grading Mode

PHY 350 Biological Physics **3 Credit hours**
Physical principles underlying the mechanisms by which living organisms survive, adapt, grow. Will enhance writing skills and strategies. 2 lec - 2 lab. (PR: PHY 203 or 213, and PHY 204)
Pre-req: PHY 203 (may be taken concurrently) or PHY 213 (may be taken concurrently) and PHY 204.
Concurrent PR: PHY 203 or PHY 213
Attributes: Natural Sciences
Grade Mode: Normal Grading Mode

PHY 360 Medical Physics **3 Credit hours**
Physical principles applied to devise methods for diagnostic and treatment of the human body. Will enhance writing skills and strategies.
Pre-req: (PHY 203 with a minimum grade of D or PHY 213 with a minimum grade of D) and PHY 204 with a minimum grade of D.
Grade Mode: Normal Grading Mode

PHY 405 Optics Lab **2 Credit hours**
A course in optical experiments encompassing geometrical and physical optics. This course is to be taken with Physics 304.
Pre-req: PHY 304 (may be taken concurrently).
Concurrent PR: PHY 304
Attributes: Natural Sciences
Grade Mode: Normal Grading Mode

PHY 408 Thermal Stat Physics **3 Credit hours**
Introduction to Thermodynamics, kinetic theory of gases, classical and quantum statistical mechanics, Bose-Einstein and Fermi-Dirac statistics, and application. 3 lec.
Pre-req: MTH 231 with a minimum grade of D and (PHY 203 with a minimum grade of D and PHY 213 with a minimum grade of D).
Grade Mode: Normal Grading Mode

PHY 415 Electronics Lab **2 Credit hours**
A course in laboratory measurements encompassing transistors, integrated circuits, and their associated circuits. This course is to be taken with Physics 314.
Pre-req: PHY 314 (may be taken concurrently) with a minimum grade of D.
Concurrent PR: PHY 314
Attributes: Natural Sciences
Grade Mode: Normal Grading Mode

PHY 420 Astrophysics **3 Credit hours**
A detailed study of core problems in Astrophysics such as orbital dynamics, radiation processes, stellar structure and evolution, galactic dynamics, and cosmology.
Pre-req: PHY 213 with a minimum grade of D and MTH 231 with a minimum grade of D.
Grade Mode: Normal Grading Mode

PHY 421 Modern Physics Lab **2 Credit hours**
Laboratory exercises on modern physics topics encompassing both experiments of historic significance and current applications. To be taken with Physics 320, or equivalent.
Co-req: PHY 320
Attributes: Natural Sciences
Grade Mode: Normal Grading Mode

PHY 425 Solid State Physics **3 Credit hours**
The course provides a broad introduction to the structure and physical properties of solids. It also serves as a basis for advanced courses in solid state and condensed matter physics. The course provides a broad introduction to the structure and physical properties of solids. It also serves as a basis for advanced courses in solid state and condensed matter physics.
Pre-req: PHY 320 or PHY 442 or CHM 442.
Attributes: Natural Sciences
Grade Mode: Normal Grading Mode

PHY 435 Computational Physics **3 Credit hours**
A course on using numerical methods and computer programming languages for solving complex physics problems and for the simulation of various physical processes. 2 lec-2 lab.
Pre-req: PHY 213 with a minimum grade of D and PHY 330 with a minimum grade of D and (PHY 445 with a minimum grade of D or PHY 446 with a minimum grade of D) and MTH 231 with a minimum grade of D.
Grade Mode: Normal Grading Mode

PHY 442 Quantum Mechanics **3 Credit hours**
A study of waves and particles, the Schroedinger and Heisenberg formulations, particles in potential fields, scattering and perturbation theories, and application to atomic and nuclear structure. 3 lec. A study of waves and particles, the Schroedinger and Heisenberg formulations, particles in potential fields, scattering and perturbation theories, and application to atomic and nuclear structure. 3 lec.
Pre-req: MTH 335 and PHY 330.
Attributes: Natural Sciences
Grade Mode: Normal Grading Mode

PHY 443 Quantum Mechanics II **3 Credit hours**
This is the second part of a two-semester introduction to quantum mechanics. Emphasis is on applications of quantum theory including approximation techniques and the study of more realistic quantum systems. This is the second part of a two-semester introduction to quantum mechanics. Emphasis is on applications of quantum theory including approximation techniques and the study of more realistic quantum systems.
Pre-req: PHY 442 with a minimum grade of D or CHM 442 with a minimum grade of D.
Grade Mode: Normal Grading Mode

PHY 444 Advanced Laboratory **2 Credit hours**
Developments in producing and detecting correlated photon pairs has enabled implementation of undergraduate laboratories demonstrating fundamental quantum mechanical principles. This laboratory also incorporates fundamental solid state and materials science experiments.
Pre-req: PHY 425 (may be taken concurrently) and PHY 442 (may be taken concurrently).
Concurrent PR: PHY 425 and PHY 442
Co-req: PHY 425, PHY 442
Grade Mode: Normal Grading Mode

PHY 445 Math Methods of Physics **3 Credit hours**
An introduction to theory of orthogonal functions, curvilinear coordinate systems, vector and tensor fields, and their applications in physics. Problems are drawn from different areas of physics. 3 lec. An introduction to theory of orthogonal functions, curvilinear coordinate systems, vector and tensor fields, and their applications in physics. Problems are drawn from different areas of physics. 3 lec.
Pre-req: PHY 203 or PHY 213 and MTH 231.
Attributes: Natural Sciences
Grade Mode: Normal Grading Mode

PHY 446 Math Methods of Physics II **3 Credit hours**
A second semester of a full year course on methods of solving problems in physics: calculus of variations, ordinary and partial differential equations, and special functions with real physics problems.
Pre-req: PHY 445.
Grade Mode: Normal Grading Mode

PHY 447 Mechanics for Teachers **4 Credit hours**
An indepth study of mechanics for education majors specializing in Physics with emphasis on problem solving techniques, demonstrations, experiments and computer applications. (PR: PHY 203, MTH 122 and MTH 140) An indepth study of mechanics for education majors specializing in Physics with emphasis on problem solving techniques, demonstrations, experiments and computer applications. (PR: PHY 203, MTH 122 and MTH 140)
Pre-req: PHY 203 or PHY 213.
Attributes: Natural Sciences
Grade Mode: Normal Grading Mode

PHY 480 Special Topics **2-4 Credit hours**
By permission of department chairman. By permission of department chairman.
Attributes: Natural Sciences
Grade Mode: Normal Grading Mode

PHY 481 Special Topics **1-4 Credit hours**
By permission of department chairman. By permission of department chairman.
Attributes: Natural Sciences
Grade Mode: Normal Grading Mode

PHY 482 Special Topics **1-4 Credit hours**
By permission of department chairman. By permission of department chairman.
Attributes: Natural Sciences
Grade Mode: Normal Grading Mode

PHY 483 Special Topics **1-4 Credit hours**
By permission of department chairman. By permission of department chairman.
Attributes: Natural Sciences
Grade Mode: Normal Grading Mode

PHY 485 Independent Study **1-4 Credit hours**
Attributes: Natural Sciences
Grade Mode: Normal Grading Mode

PHY 486 Independent Study **1-4 Credit hours**
Attributes: No Textbook Required, Natural Sciences
Grade Mode: Normal Grading Mode

PHY 487 Independent Study **1-4 Credit hours**
Attributes: Natural Sciences
Grade Mode: Normal Grading Mode

PHY 488 Independent Study **1-4 Credit hours**
Attributes: Natural Sciences
Grade Mode: Normal Grading Mode

PHY 491 Capstone **1-2 Credit hours**
To give a capstone expeience to physics majors in their junior or senior years by applying the principles of physics to the solution of real life problems. (PR: CSD 203, or 218 and lab). To give a capstone expeience to physics majors in their junior or senior years by applying the principles of physics to the solution of real life problems. (PR: CSD 203, or 218 and lab).
Attributes: Capstone Course, Natural Sciences
Grade Mode: Normal Grading Mode

PHY 492 Capstone **1-2 Credit hours**
To give a capstone experience to physics majors in their junior or senior years by applying the principles of physics to the solution of real life problems. (PR: PHY 491) To give a capstone experience to physics majors in their junior or senior years by applying the principles of physics to the solution of real life problems. (PR: PHY 491)
Pre-req: PHY 491 with a minimum grade of D.
Attributes: Capstone Course, No Textbook Required, Natural Sciences
Grade Mode: Normal Grading Mode

Political Science (PSC)

- General Education Course

PSC 104 Am Natl Govt & Politics (CT) **3 Credit hours**
This course will engage students in critical thinking as they explore the American federal government system, with emphasis on constiutionalism, governmental structure, and the political process.
Attributes: American Institutions, Critical Thinking, Core II Social Sciences
Grade Mode: Normal Grading Mode

PSC 105 Fundamentals of Politics (CT) 3 Credit hours
General survey introducing the study of politics, its major concepts, processes, institutions, and fields of concern, with attention to the place of political science in the larger context of social science inquiry. General survey introducing the study of politics, its major concepts, processes, institutions, and fields of concern, with attention to the place of political science in the larger context of social science inquiry.
Attributes: Critical Thinking, Core II Social Sciences
Grade Mode: Normal Grading Mode

PSC 202 State and Local Government 3 Credit hours
Study of the institutions, processes, and significance of this level of political life in America. Study of the institutions, processes, and significance of this level of political life in America.
Attributes: American Institutions, Core II Social Sciences
Grade Mode: Normal Grading Mode

PSC 207 Comparative Politics (CT) 3 Credit hours
Introduction to the field of comparative politics, stressing comparative concepts and approaches to the cross-national study of politics and government, with examination of political systems, ranging from democratic to non-democratic types. Introduction to the field of comparative politics, stressing comparative concepts and approaches to the cross-national study of politics and government, with examination of political systems, ranging from democratic to non-democratic types.
Attributes: Critical Thinking, International, Core II Social Sciences
Grade Mode: Normal Grading Mode

PSC 209 Fund Internatl Relations (CT) 3 Credit hours
Survey of major concepts and approaches in the study of international relations and analysis of processes, institutions, strategies, and trends in world politics.
Attributes: Critical Thinking, International, Core II Social Sciences
Grade Mode: Normal Grading Mode

PSC 211 Research in Political Science 3 Credit hours
Study of the development of political science as a distinct science and discipline, and of the fundamentals of research in political science, such as bibliographic techniques, uses of scientific method, textual and case-study approaches and data analysis. Study of the development of political science as a distinct science and discipline, and of the fundamentals of research in political science, such as bibliographic techniques, uses of scientific method, textual and case-study approaches and data analysis.
Pre-req: ENG 201 with a minimum grade of C or ENG 201H with a minimum grade of C or YGS 161 with a minimum grade of C or IST 201 with a minimum grade of D or ENG 202 with a minimum grade of D or ENG 102 with a minimum grade of C or ENG 200H with a minimum grade of C.
Attributes: Core II Social Sciences
Grade Mode: Normal Grading Mode

PSC 233 Intro to Public Policy 3 Credit hours
Basic concepts and skills in the analysis of public policy problems. Use of policy as an instrument for solving problems. Application to selected fields, for example, environmental policy and urban policy. Basic concepts and skills in the analysis of public policy problems. Use of policy as an instrument for solving problems. Application to selected fields, for example, environmental policy and urban policy.
Attributes: American Institutions, Core II Social Sciences
Grade Mode: Normal Grading Mode

PSC 280 Special Topics 1-4 Credit hours
To offer a course on some special topic not adequately treated in the regular course offerings. To offer a course on some special topic not adequately treated in the regular course offerings.
Grade Mode: Normal Grading Mode

PSC 281 Special Topics 1-4 Credit hours
To offer a course on some special topic not adequately treated in the regular course offerings. To offer a course on some special topic not adequately treated in the regular course offerings.
Grade Mode: Normal Grading Mode

PSC 282 Special Topics 1-4 Credit hours
To offer a course on some special topic not adequately treated in the regular course offerings. To offer a course on some special topic not adequately treated in the regular course offerings.
Grade Mode: Normal Grading Mode

PSC 283 Special Topics 1-4 Credit hours
To offer a course on some special topic not adequately treated in the regular course offerings. To offer a course on some special topic not adequately treated in the regular course offerings.
Grade Mode: Normal Grading Mode

PSC 303 Amer Political Parties 3 Credit hours
Examination of the American party system, its origins, development and characteristics. Emphasis also on party organization, political ambition and recruitment, party impact on public policy, campaigns, elections, and voting behavior. Examination of the American party system, its origins, development and characteristics. Emphasis also on party organization, political ambition and recruitment, party impact on public policy, campaigns, elections, and voting behavior.
Attributes: American Institutions
Grade Mode: Normal Grading Mode

PSC 307 Public Opinion and Propaganda 3 Credit hours
Study of the processes by which individuals acquire politically relevant information, attitudes, values, and opinions; the consequences of these processes for political stability and conflict; and the linkage of mass opinions to elite behavior. (Same as Sociology 307) Study of the processes by which individuals acquire politi- cally relevant information, attitudes, values, and opinions; the consequences of these processes for political stability and conflict; and the linkage of mass opinions to elite be- havior. (Same as Sociology 307)
Attributes: American Institutions
Grade Mode: Normal Grading Mode

PSC 310 Campaigns and Elections 3 Credit hours
Federal and state laws for campaigns and elections and the changing mechanisms for reaching voters are covered in this course.
Grade Mode: Normal Grading Mode

PSC 311 Issues in Public Policy 3 Credit hours
A course devoted to a special topic of interest in the policy field, such as energy, health care, transportation, environmental concerns, etc. A course devoted to a special topic of interest in the policy field, such as energy, health care, transportation, environmental concerns, etc.
Grade Mode: Normal Grading Mode

PSC 312 Research in Political Science 3 Credit hours
Study of the development of political science as a distinct science and discipline, and of the fundamentals of research in political science, such as bibliographic techniques, uses of scientific method, textual and case-study approaches and data analysis.
Grade Mode: Normal Grading Mode

PSC 333 Intro to Public Administration **3 Credit hours**
Introduction to modern theories of administration; the relation of administration to the political system and process; and analysis of administrative organizations and functions, including planning, personnel, and finance. Introduction to modern theories of administration; the re- lation of administration to the political system and pro- cess; and analysis of administrative organizations and functions, including planning, personnel, and finance.
Grade Mode: Normal Grading Mode

PSC 376 Black Politics **3 Credit hours**
Study emphasizing power structures in black communities, dissent and protest, problems and trends, and the uniqueness of black politics as compared with the politics of other ethnic groups. Study emphasizing power structures in black communities, dissent and protest, problems and trends, and the uni- queness of black politics as compared with the politics of other ethnic groups.
Attributes: American Institutions, Multicultural
Grade Mode: Normal Grading Mode

PSC 381 Am Legislative Process **3 Credit hours**
Structure and behavior of American national and state legislative systems; the impact of constituencies, parties, interest groups, interpersonal relations, and other factors on the legislative policymaking process; the role of the legislature as a subsystem in the larger political system; and problems and trends. Structure and behavior of American national and state legislative systems; the impact of constituencies, parties, interest groups, interpersonal relations, and other factors on the legislative policymaking process; the role of the legislature as a subsystem in the larger political system; and problems and trends.
Attributes: American Institutions
Grade Mode: Normal Grading Mode

PSC 382 Student Legislative Prog **1 Credit hour**
One week of intensive legislative observation designed to provide selected students an understanding of the organization and processes of the West Virginia legislature and its role in the making of public policy. One week of intensive legislative observation designed to provide selected students an understanding of the organiza- tion and processes of the West Virginia legislature and its role in the making of public policy.
Grade Mode: Normal Grading Mode

PSC 383 The American Presidency **3 Credit hours**
Study of governmental executives in the American political system, with emphasis on the president, including analysis of constitutional status and powers, recruitment, administrative responsibilities, political and legislative leadership, accountability, and problems and trends. Study of governmental executives in the American political system, with emphasis on the president, including analysis of constitutional status and powers, recruitment, admini- strative responsibilities, political and legislative leader- ship, accountability, and problems and trends.
Attributes: American Institutions
Grade Mode: Normal Grading Mode

PSC 402 Politics of the Undead **3 Credit hours**
An exploration of political thought, international relations theory, and political economy through the pop cultural lens of vampires, zombies, and other undead creatures.
Grade Mode: Normal Grading Mode

PSC 403 War and Pop Culture **3 Credit hours**
An exploration of evolving depictions of political violence in film, television, graphic novels, video games, and popular music.
Attributes: International
Grade Mode: Normal Grading Mode

PSC 405 UN & Global Organizations **3 Credit hours**
Study of world and regional organizations as reflections of world politics, as instruments of foreign policies, and as forces for change and order, with emphasis on their role as channels for management of cooperation and conflict. Study of world and regional organizations as reflections of world politics, as instruments of foreign policies, and as forces for change and order, with emphasis on their role as channels for management of cooperation and conflict.
Attributes: International
Grade Mode: Normal Grading Mode

PSC 406 International Relations **3 Credit hours**
Study of major issues in world politics, with emphasis on theoretical approaches, problems of war and peace, and contemporary trends. Study of major issues in world politics, with emphasis on theoretical approaches, problems of war and peace, and contemporary trends.
Attributes: International
Grade Mode: Normal Grading Mode

PSC 407 Asian Politics **3 Credit hours**
Study of such nations as India, China, Japan, and Korea in the contemporary setting. Study of such nations as India, China, Japan, and Korea in the contemporary setting.
Attributes: International
Grade Mode: Normal Grading Mode

PSC 408 Middle Eastern Politics **3 Credit hours**
Study of the Arab States and such nations as Israel, Iran, and Turkey in the contemporary setting. Study of the Arab States and such nations as Israel, Iran, and Turkey in the contemporary setting.
Attributes: International
Grade Mode: Normal Grading Mode

PSC 409 Western Democratic Politics **3 Credit hours**
Study of such nations as Canada and those of Western Europe, particularly Great Britian and France. Study of such nations as Canada and those of Western Europe, particularly Great Britian and France.
Attributes: International
Grade Mode: Normal Grading Mode

PSC 410 Post Soviet Politics **3 Credit hours**
Study of the politics of Russia and the former Soviet Union. Study of the Soviet Union and Eastern Europe.
Attributes: International
Grade Mode: Normal Grading Mode

PSC 411 Latin American Politics **3 Credit hours**
Study of Latin American politics by sectors, such as landed elites, the military, the church, etc. Various styles of governance are considered. Case examples illustrate concepts discussed. Study of Latin American politics by sectors, such as landed elites, the military, the church, etc. Various styles of governance are considered. Case examples illustrate con- cepts discussed.
Attributes: International
Grade Mode: Normal Grading Mode

PSC 412 International Political Econ **3 Credit hours**
This course will examine the evolution and structure of the global economic system with emphasis on the development of the Liberal International Economic Order.
Grade Mode: Normal Grading Mode

PSC 415 International Law **3 Credit hours**
Study of theories, origins, sources, development, present state, and trends of international law as a factor in various aspects of international politics. Study of theories, origins, sources, development, present state, and trends of international law as a factor in various aspects of international politics.
Attributes: International
Grade Mode: Normal Grading Mode

PSC 416 Politics of Development **3 Credit hours**
A survey of major theories of development and modernization and issues confronting developing nations around the world.
Attributes: International
Grade Mode: Normal Grading Mode

PSC 417 Homeland Sec and Civ Lib **3 Credit hours**
An examination of the policy issues involved in protecting the U.S. homeland from terrorist and other threats, with special attention to the impact such policies have on individual liberties.
Grade Mode: Normal Grading Mode

PSC 418 American Political Thought II **3 Credit hours**
This course is a detailed examination of the philosophical and historical roots of American politics from Reconstruction through the present with emphasis on original texts.
Grade Mode: Normal Grading Mode

PSC 419 Women and Political Thought **3 Credit hours**
This course examines how women were conceptualized in the history of political philosophy and how women then began conceptualizing themselves and their relation to politics.
Grade Mode: Normal Grading Mode

PSC 420 Cur World/Regional Issues **3 Credit hours**
An intensive study of specific world or regional problems, such as the politics of world hunger, the role of multinational corporations, imperialism, Third World Communist movements, etc. An intensive study of specific world or regional problems, such as the politics of world hunger, the role of multi- national corporations, imperialism, Third World Communist movements, etc.
Attributes: International
Grade Mode: Normal Grading Mode

PSC 421 American Political Thought I **3 Credit hours**
This course is a detailed examination of the philosophical and historical roots of American politics from the Colonial era through the Civil War with emphasis on original texts. Study of the development and influence of American Political Thought with an emphasis on the linkage of ideas to political and ecomomic forces.
Grade Mode: Normal Grading Mode

PSC 422 African Political Systems **3 Credit hours**
The study of political systems of selected countries, blocs, or regions. The study of political systems of selected countries, blocs, or regions.
Attributes: International
Grade Mode: Normal Grading Mode

PSC 423 American Foreign Policy **3 Credit hours**
The study of descriptive, analytical, and normative aspects of United States foreign policy with emphasis on contemporary problems and issues. The study of descriptive, analytical, and normative aspects of United States foreign policy with emphasis on contempor- ary problems and issues.
Attributes: American Institutions, International
Grade Mode: Normal Grading Mode

PSC 424 Diplomacy **3 Credit hours**
Application of the comparative method to foreign policy decision-making and outputs. Comparisons within or between geographic regions. Application of the comparative method to foreign policy decision-making and outputs. Comparisons within or between geographic regions.
Attributes: International
Grade Mode: Normal Grading Mode

PSC 425 Classical Political Thought **3 Credit hours**
Selective study of classics of Western political theory from earliest times through the 15th century, such as that of Plato, Aristotle, the Romans, Augustine, and Aquinas.
Grade Mode: Normal Grading Mode

PSC 426 Modern Political Thought **3 Credit hours**
Selective study of classics of Western political theory from the 16th century through the 19th century, such as that of Machiavelli, Bodin, Hobbes, Locke, Rousseau, Hume, Burke, Mill, and Marx.
Grade Mode: Normal Grading Mode

PSC 427 Shapers and Definers **3 Credit hours**
A study of political leaders who have shaped and defined the American constitutional tradition.
Grade Mode: Normal Grading Mode

PSC 428 Islam and Politics **3 Credit hours**
Study of Islamic political ideas, practices, and institutions and their impact on the rise and development of contemporary Islamic movements, organizations, and states. Study of Islamic political ideas, practices, and institut- ions and their impact on the rise and development of con- temporary Islamic movements, organizations, and states.
Attributes: International
Grade Mode: Normal Grading Mode

PSC 429 Politics of Confl & Rev **3 Credit hours**
Study of major theories of conflict and revolution with emphasis on cross-national explanations and outcomes. Study of major theories of conflict and revolution with em- phasis on cross-national explanations and outcomes.
Attributes: International
Grade Mode: Normal Grading Mode

PSC 430 Political Ideologies **3 Credit hours**
This course examines modern political ideologies including Liberalism, Conservatism, Anarchism, Socialism, Facism, Feminism, and Environmentalism with emphasis on the original texts.
Grade Mode: Normal Grading Mode

PSC 431 Pol of Global Terrorism **3 Credit hours**
An examination of terrorism globally, both in its development and its current manifestations, with attention to its attractions, the difficulties of confronting it, and its implications for democratic society. Draws upon both classic and contemporary sources of politi- cal theory to address basic political issues inherent in public problems.
Grade Mode: Normal Grading Mode

PSC 432 Nonprofit Management **3 Credit hours**
This course examines the principles and applied practices of nonprofit administration including theories of nonprofit formation, fundraising appeals, executive leadership, marketing, budgeting, and strategic management.
Grade Mode: Normal Grading Mode

PSC 433 Public Adm & Policy Dev **3 Credit hours**
Examination of alternative theoretical approaches to the study of policy and administration and their implications for the use of policy to shape administrative practice. Examination of alternative theoretical approaches to the study of policy and administration and their implications for the use of policy to shape administrative practice.
Attributes: American Institutions
Grade Mode: Normal Grading Mode

PSC 434 Intel and Covert Ops **3 Credit hours**
An introduction to the institutions and processes of the U.S. Intelligence Community, with an emphasis on the vital role of intelligence in national security.
Grade Mode: Normal Grading Mode

PSC 435 Harry Potter and Pol. Theory **3 Credit hours**
Detailed examination of the Harry Potter book series through the lens of various theories and theorists of power, with emphasis on scholarly argumentation and writing.
Grade Mode: Normal Grading Mode

PSC 436 The American Judiciary **3 Credit hours**
Structure and behavior in American national and state judicial systems, including analysis of their decision making and policy making functions, their procedures and administration, and problems and trends. Structure and behavior in American national and state judi- cial systems, including analysis of their decision making and policy making functions, their procedures and administ- ration, and problems and trends.
Attributes: American Institutions
Grade Mode: Normal Grading Mode

PSC 440 Power in American Society **3 Credit hours**
Examination of some of the major theoretical approaches pluralistic, elitist, etc. to the study of power. A major concern is the relationship between the distribution of political resources and the performance of political systems. Efforts to transform political systems are examined on the basis of cross-national research. Examination of some of the major theoretical approaches - pluralistic, elitist, etc. - to the study of power. A major concern is the relationship between the distribution of political resources and the performance of political systems. Efforts to transform political systems are exam- ined on the basis of cross-national research.
Attributes: American Institutions
Grade Mode: Normal Grading Mode

PSC 442 Politics of Poverty **3 Credit hours**
A comparative course examining the political institutional methods states use to assist citizens who are poor, primarily women and children. It also addresses behavioral concerns that shape welfare policy.
Grade Mode: Normal Grading Mode

PSC 444 Dictatorship & Democracy **3 Credit hours**
An investigation of the strengths of democracies relative to dictatorships with regard to such dimensions as economic growth, income equality, health and welfare of citizens and war reductions.
Grade Mode: Normal Grading Mode

PSC 445 Environmental Politics **3 Credit hours**
This course examines multiple prespectives on the relationship between humans and nature, focusing on how particular interpretations of this relationship determine how we translate environmental concerns into political problems.
Grade Mode: Normal Grading Mode

PSC 446 Politics in History **3 Credit hours**
A study of politics as an order shattering, order restructuring force during some of America's most transformative moments.
Grade Mode: Normal Grading Mode

PSC 450 Administrative Law **3 Credit hours**
A study of the basic legal framework of administrative organization, including the problems of administrative discretion, rule-making and adjudication, regulatory agencies, and administrative responsibility in the democratic state. A study of the basic legal framework of administrative or- ganization, including the problems of administrative dis- cretion, rule-making and adjudication, regulatory agencies, and administrative responsibility in the democratic state.
Grade Mode: Normal Grading Mode

PSC 452 Public Personnel Admin **3 Credit hours**
Survey of Public Personnel Administration with particular attention to various facets of the merit system concept. Psychological and human relations aspects of the work situation and supervisor-subordinate interaction emphasized. Survey of Public Personnel Administration with particular attention to various facets of the merit system concept. Psychological and human relations aspects of the work situation and supervisor-subordinate interaction emphasized.
Grade Mode: Normal Grading Mode

PSC 453 Government Budgetary Admin **3 Credit hours**
Study of organization, administration, and accountability in the management of public funds, with emphasis on the political decision-making processes of budget formulation, presentation and execution. Study of organization, administration, and accountability in the management of public funds, with emphasis on the political decision-making processes of budget formulation, presentation and execution.
Grade Mode: Normal Grading Mode

PSC 454 Politics of the Workplace **3 Credit hours**
A study of the contributions of the behavioral sciences to the study of organizations with stress on such concepts as leadership, motivation, power conflict, organizational design and decision making. A study of the contributions of the behavioral sciences to the study of organizations with stress on such concepts as leadership, motivation, power conflict, organizational design and decision making.
Grade Mode: Normal Grading Mode

PSC 460 Civil Rights & Liberties **3 Credit hours**
Pre-req: PSC 104 or PSC 104E.
Grade Mode: Normal Grading Mode

PSC 461 Urban Prob & Pub Policy **3 Credit hours**
Study of policy problems of metropolitan areas in terms of structures, alternatives, and outcomes. Study of policy problems of metropolitan areas in terms of structures, alternatives, and outcomes.
Attributes: American Institutions
Grade Mode: Normal Grading Mode

PSC 466 Appalachian Politics **3 Credit hours**
Explores Appalachia as both a geographical region and a political construct, focusing on how politics shapes regional identity and the region's relationship to the United States.
Grade Mode: Normal Grading Mode

PSC 478 Politics and Video Games **3 Credit hours**
An exploration of the power dynamics and politics at play in video games, the video game industry, and gaming culture.
Attributes: Digital Humanities
Grade Mode: Normal Grading Mode

PSC 480 Special Topics **1-4 Credit hours**
To offer a course on some special topic which is not adequately treated in the regular course offerings. To offer a course on some special topic which is not ad- equately treated in the regular course offerings.
Grade Mode: Normal Grading Mode

PSC 481 Special Topics **1-4 Credit hours**
To offer a course on some special topic which is not adequately treated in the regular course offerings. To offer a course on some special topic which is not ad- equately treated in the regular course offerings.
Grade Mode: Normal Grading Mode

PSC 482 Special Topics **1-4 Credit hours**
To offer a course on some special topic which is not adequately treated in the regular course offerings. To offer a course on some special topic which is not ad- equately treated in the regular course offerings.
Grade Mode: Normal Grading Mode

PSC 483 Special Topics **1-4 Credit hours**
To offer a course on some special topic which is not adequately treated in the regular course offerings. To offer a course on some special topic which is not ad- equately treated in the regular course offerings.
Grade Mode: Normal Grading Mode

PSC 484 Constitutional Law **3 Credit hours**
Introduction to the principles of American constitutional law and analysis of constitutional issues, emphasizing leading Supreme Court cases. Introduction to the principles of American constitutional law and analysis of constitutional issues, emphasizing leading Supreme Court cases.
Pre-req: PSC 104E or PSC 104.
Attributes: American Institutions
Grade Mode: Normal Grading Mode

PSC 485 Independent Study **1-4 Credit hours**
These numbers are reserved for tutorials, directed and independent readings, directed and independent research, problem reports, etc. These numbers are reserved for tutorials, directed and in- dependent readings, directed and independent research, problem reports, etc.
Attributes: No Textbook Required
Grade Mode: Normal Grading Mode

PSC 486 Independent Study **1-4 Credit hours**
These numbers are reserved for tutorials, directed and independent readings, directed and independent research, problem reports, etc. These numbers are reserved for tutorials, directed and in- dependent readings, directed and independent research, problem reports, etc.
Grade Mode: Normal Grading Mode

PSC 487 Independent Study **1-4 Credit hours**
These numbers are reserved for tutorials, directed and independent readings, directed and independent research, problem reports, etc. These numbers are reserved for tutorials, directed and in- dependent readings, directed and independent research, problem reports, etc.
Grade Mode: Normal Grading Mode

PSC 488 Independent Study **1-4 Credit hours**
These numbers are reserved for tutorials, directed and independent readings, directed and independent research, problem reports, etc. These numbers are reserved for tutorials, directed and in- dependent readings, directed and independent research, problem reports, etc.
Grade Mode: Normal Grading Mode

PSC 489 Seminar in Public Service **3 Credit hours**
Grade Mode: Normal Grading Mode

PSC 490 Public Service Internship **6 Credit hours**
Grade Mode: Normal Grading Mode

PSC 499 Capstone Experience **3 Credit hours**
This course is designed as a culminating experience for seniors. Students will engage in a service learning project that combines scholarly interests with real life skills. Course offered only in Fall Semester. This course is designed to integrate political theory with politics by considering the relevance of political phil- osophy to contemporary political questions. Capstone ex- perience must be completed in the senior year.
Pre-req: PSC 211 with a minimum grade of D.
Attributes: Capstone Course
Grade Mode: Normal Grading Mode

Psychology (PSY)

- General Education Course

PSY 100 Psychology as a Major **1 Credit hour**
Prepares students to be successful undergraduate Psychology majors and introduces possible careers and educational requirements. Prepares students to be successful undergraduate Psychology majors and introduces possible careers and educational requirements.
Grade Mode: Normal Grading Mode

PSY 201 Introductory Psychology (CT) **3 Credit hours**
Principles and methods in the scientific study of behavior. Principles and methods in the scientific study of behavior.
Attributes: Critical Thinking, Core II Social Sciences
Grade Mode: Normal Grading Mode

PSY 201H General Psychology-Honors (CT) **3 Credit hours**
For the superior student. For the superior student.
Pre-req: Admitted Honors College with a score of 1.
Attributes: Critical Thinking, Core II Social Sciences
Grade Mode: Normal Grading Mode

PSY 204 Psychology of Adjustment **3 Credit hours**
Modes of personal and social adjustment; assessment and treatment techniques. Modes of personal and social adjustment; assessment and treatment techniques.
Grade Mode: Normal Grading Mode

PSY 205 Intro Paraprof Mental Health **3 Credit hours**
Course covers paraprofessional mental health career options; community resource utilization, deinstitutionalization, crisis/ interpersonal intervention and special populations. On-site observation experience required.
Pre-req: PSY 201.
Grade Mode: Normal Grading Mode

PSY 223 Elem Behavioral Stat **3 Credit hours**
Orientation to the philosophy of science; survey of methods in behavior study; elementary statistics. Orientation to the philosophy of science; survey of methods in behavior study; elementary statistics.
Pre-req: (PSY 201 with a minimum grade of D or PSY 201H with a minimum grade of D) and (MTH 121 with a minimum grade of D or MTH 121B with a minimum grade of D or MTH 122 with a minimum grade of D or MTH 125 with a minimum grade of D or MTH 127 with a minimum grade of D or MTH 130 with a minimum grade of D or MTH 132 with a minimum grade of D or MTH 140 with a minimum grade of D or MTH 140H with a minimum grade of D or MTH 160 with a minimum grade of D or MTH 220 with a minimum grade of D or (STA 150 with a minimum grade of D and STA 150L with a minimum grade of D) or (STA 150B with a minimum grade of D and STA 150L with a minimum grade of D) or MTH 229 with a minimum grade of D or MTH 229H with a minimum grade of D).
Attributes: Core II Social Sciences, Statistics
Grade Mode: Normal Grading Mode

PSY 223L Elem Behavioral Stats Lab **1 Credit hour**
A laboratory course accompanying PSY 223, emphasizing experiential excercises related to methodology and research in psychology.
Pre-req: MTH 121.
Co-req: PSY 223
Grade Mode: Normal Grading Mode

PSY 250 Psychology of Pop Culture **3 Credit hours**
This course surveys how psychology and psychological issues are presented, researched, and applied in multiple modalities of popular culture.
Pre-req: PSY 201.
Grade Mode: Normal Grading Mode

PSY 280 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

PSY 281 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

PSY 282 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

PSY 283 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

PSY 300 Paranormal Phenomena **3 Credit hours**
Investigation of such putative paranormal events as ESP, clairvoyance, UFO's, ghosts, astral projecttion, astrology, and related topics. Emphasis on evaluation of evidence using the scientific method and scientific criteria. Investigation of such putative paranormal events as ESP, clairvoyance, UFO's, ghosts, astral projecttion, astrology, and related topics. Emphasis on evaluation of evidence using the scientific method and scientific criteria.
Pre-req: PSY 201 with a minimum grade of D or PSY 201H with a minimum grade of D.
Grade Mode: Normal Grading Mode

PSY 302 Social Psychology **3 Credit hours**
Social determinants of individual behavior. Social determinants of individual behavior.
Pre-req: PSY 201 with a minimum grade of D or PSY 201H with a minimum grade of D.
Grade Mode: Normal Grading Mode

PSY 310 Beh Int Paraprof Mental Health **3 Credit hours**
Course covers behavioral theory, antecedent motivators, functional analysis, reinforcement regimes; preparing and following treatment plans, defining measurable goals/objectives, monitoring progress.
Pre-req: PSY 205.
Grade Mode: Normal Grading Mode

PSY 311 Child Development **3 Credit hours**
Psychological characteristics and personal and social problems of developmental periods. Psychological characteristics and personal and social problems of developmental periods.
Pre-req: PSY 201 with a minimum grade of D or PSY 201H with a minimum grade of D.
Grade Mode: Normal Grading Mode

PSY 312 Adult Development **3 Credit hours**
Study of the physiological, psychological, and social processes that occur throughout adult development. Study of the physiological, psychological, and social processes that occur throughout adult development.
Pre-req: PSY 201 with a minimum grade of D or PSY 201H with a minimum grade of D.
Grade Mode: Normal Grading Mode

PSY 323 Experimental Psychology **3 Credit hours**
Methodology and research in psychology. 2 lec-2 lab. Methodology and research in psychology. 2 lec-2 lab.
Pre-req: PSY 223 with a minimum grade of D.
Grade Mode: Normal Grading Mode

PSY 324 Sensation & Perception **3 Credit hours**
Methodology and research in sensory and perceptual processes. Methodology and research in sensory and perceptual processes.
Pre-req: PSY 223 with a minimum grade of D.
Grade Mode: Normal Grading Mode

PSY 330 Human Sexual Behavior **3 Credit hours**
A psychological approach to the functioning, attitudes, varieties and development of human sexual behavior. A psychological approach to the functioning, attitudes, varieties and development of human sexual behavior.
Pre-req: PSY 201 with a minimum grade of D or PSY 201H with a minimum grade of D.
Grade Mode: Normal Grading Mode

PSY 350 Animal Behavior **3 Credit hours**
A comprehensive study of the behavior of non-human animals. A comprehensive study of the behavior of non-human animals.
Pre-req: PSY 201 or PSY 201E or PSY 201H.
Grade Mode: Normal Grading Mode

PSY 360 Personality **3 Credit hours**
Personality structure, dynamics and development. Personality structure, dynamics and development.
Pre-req: PSY 201 with a minimum grade of D or PSY 201H with a minimum grade of D.
Grade Mode: Normal Grading Mode

PSY 391 Psychology Of Aggression **3 Credit hours**
A multifaceted study of aggressive behavior in humans and other animals. Topics include biological and learned components of aggression, sex differences in aggression, violent crimes and personalities, media violence, and control of personal and group aggesssion. A multifaceted study of aggressive behavior in humans and other animals. Topics include biological and learned components of aggression, sex differences in aggression, violent crimes and personalities, media violence, and control of personal and group aggesssion.
Pre-req: PSY 201 or PSY 201E or PSY 201H and (PSY 302 or PSY 311 or PSY 408).
Grade Mode: Normal Grading Mode

PSY 406 Psychometrics **3 Credit hours**
Mental test theory and applicatons. Mental test theory and applicatons.
Pre-req: PSY 223 with a minimum grade of D.
Grade Mode: Normal Grading Mode

PSY 408 Abnormal Psychology **3 Credit hours**
An overview of the theories, assessment techniques, and treatment of maladaptive behavior. An overview of the theories, assessment techniques, and treatment of maladaptive behavior.
Pre-req: PSY 201 with a minimum grade of D or PSY 201H with a minimum grade of D.
Grade Mode: Normal Grading Mode

PSY 411 Adv Topics Developmental Psy **3 Credit hours**
This course will provide an advanced study of topics regarding change throughout the lifespan. Emphasis will be on understanding the interactions of biological, psychological and social factors. This course will provide an advanced study of topics regarding change throughout the lifespan. Emphasis will be on understanding the interactions of biological, psy- chological and social factors.
Pre-req: PSY 311.
Grade Mode: Normal Grading Mode

PSY 415 Cognitive Psychology **3 Credit hours**
Theoretical and empirical approaches to the role of pattern recognition, attention, memory, language, problem solving and decision making in human thinking.
Pre-req: PSY 201 with a minimum grade of D or PSY 201H with a minimum grade of D.
Grade Mode: Normal Grading Mode

PSY 416 Psychology of Learning **3 Credit hours**
Critical study of the major theories of learning and the related research. Critical study of the major theories of learning and the related research.
Pre-req: PSY 201 with a minimum grade of D or PSY 201H with a minimum grade of D.
Grade Mode: Normal Grading Mode

PSY 417 Inter Behavioral Stat **3 Credit hours**
An intermediate level presentation of descriptive and inferential statistics as applied in behavioral research. 2 lec-2 lab. An intermediate level presentation of descriptive and inferential statistics as applied in behavioral research. 2 lec-2 lab.
Pre-req: PSY 223 with a minimum grade of D.
Grade Mode: Normal Grading Mode

PSY 418 Psychology of Personnel **3 Credit hours**
Psychological principles and methods applied to functions in personnel administration. Psychological principles and methods applied to functions in personnel administration.
Pre-req: PSY 201 with a minimum grade of D or PSY 201H with a minimum grade of D.
Grade Mode: Normal Grading Mode

PSY 420 Intro to I-O Psychology **3 Credit hours**
A systematic study of the application of psychological methods and principles in business and industry. Emphasis is on research methods, motivation, training, leadership, personnel selection, employee safety, and job satisfaction.
Pre-req: PSY 201 with a minimum grade of D or PSY 201E with a minimum grade of D or PSY 201H with a minimum grade of D.
Grade Mode: Normal Grading Mode

PSY 425 Psychology of Cinema Symbolism **3 Credit hours**
Analysis of how signs, symbols, and archetypes influence the individual and collective psyche via film.
Grade Mode: Normal Grading Mode

PSY 426 Cross Cultural Psychology **3 Credit hours**
Emic and etic cultural concepts are considered from an American (subcultural) and international perspective. Cultural influences on healing, health and service are covered. Emic and etic cultural concepts are considered from an American (subcultural) and international perspective. Cultural influences on healing, health and service are covered.
Pre-req: PSY 201 with a minimum grade of D or PSY 201H with a minimum grade of D.
Attributes: Multicultural
Grade Mode: Normal Grading Mode

PSY 430 Psychology of Women **3 Credit hours**
This course explores theories, findings, and social issues regarding the psychology of women and gender, with emphasis on gender role socialization on people's beliefs and behaviors across the lifespan. This course explores theories, findings, and social issues regarding the psychology of women and gender, with emphasis on gender role socialization on people's beliefs and behaviors across the lifespan.
Pre-req: PSY 201 or PSY 201H.
Grade Mode: Normal Grading Mode

PSY 433 Currt Models Psychotherapy **3 Credit hours**
Introduction of theoretical models and related therapeutic strategies which influence the practice of modern psychotherapy. Introduction of theoretical models and related therapeutic strategies which influence the practice of modern psychotherapy.
Pre-req: PSY 360 with a minimum grade of D or PSY 408 with a minimum grade of D.
Grade Mode: Normal Grading Mode

PSY 435 Psych of Conspiracy Theory **3 Credit hours**
Understand, identify, and give critical analysis to the psychological and social factors that promote the support and belief of conspiracy theory.
Grade Mode: Normal Grading Mode

PSY 440 Physiological Psychology **3 Credit hours**
The relationships between physiological functions and biochemical processes and behavior. The relationships between physiological functions and biochemical processes and behavior.
Pre-req: PSY 201 with a minimum grade of D or PSY 201H with a minimum grade of D.
Grade Mode: Normal Grading Mode

PSY 443 Health Psychology **3 Credit hours**
Introduction to the contribution of psychology to the promotion and maintenance of health and the prevention and treatment of illness.
Pre-req: (PSY 201 with a minimum grade of D or PSY 201H with a minimum grade of D) and PSY 323 with a minimum grade of D.
Grade Mode: Normal Grading Mode

PSY 456 Research in Psychology **3 Credit hours**
Laboratory courses to give advanced students experience in conducting psychological research. Laboratory courses to give advanced students experience in conducting psychological research.
Pre-req: PSY 223 with a minimum grade of D and PSY 323 with a minimum grade of D.
Attributes: Capstone Course
Grade Mode: Normal Grading Mode

PSY 457 Research in Psychology **3 Credit hours**
Laboratory courses to give advanced students experience in conducting psychological research. Laboratory courses to give advanced students experience in conducting psychological research.
Pre-req: PSY 201 with a minimum grade of D or PSY 201E with a minimum grade of D or PSY 201H with a minimum grade of D.
Attributes: Capstone Course, No Textbook Required
Grade Mode: Normal Grading Mode

PSY 460 History & Systems **3 Credit hours**
An examination of the historical and philosophical antecedents of contemporary psychology. An examination of the historical and philosophical antecedents of contemporary psychology.
Pre-req: (PSY 201 with a minimum grade of D or PSY 201H with a minimum grade of D) and PSY 223 with a minimum grade of D and PSY 323 with a minimum grade of D.
Attributes: Capstone Course
Grade Mode: Normal Grading Mode

PSY 465 Love Intimacy and Attachment **3 Credit hours**
Examination of how childhood attachments, bonds, and relationships affect and influence adult perspectives on love, expectations, intimacy, fidelity, and commitment. Examination of how childhood attachments, bonds, and relationships affect and influence adult perspectives on love, expectations, intimacy, fidelity, and commitment.
Pre-req: PSY 311.
Grade Mode: Normal Grading Mode

PSY 470 I-O Psych Practicum **3 Credit hours**
The course will offer students applied observational/research experience in Personnel/Human Resource Departments under the supervision of professionals within the fields of Industrial-Organizational Psychology and Human Resources. (PR: Psy 4l8 or Psy 420 and Permission.) The course will offer students applied observational/re- search experience in Personnel/Human Resource Departments under the supervision of professionals within the fields of Industrial-Organizational Psychology and Human Resources. (PR: Psy 4l8 or Psy 420 and Permission.)
Pre-req: PSY 418 or PSY 420.
Grade Mode: Normal Grading Mode

PSY 471 Practicum in Clinical PSY **3 Credit hours**
Students work 6 hours per week in a local clinical setting where they have the opportunity to observe individual and group therapy, psychological testing, staff meetings, etc. PR: l2 hours of PSY including 408 and Permission of Instructor Students work 6 hours per week in a local clinical setting where they have the opportunity to observe individual and group therapy, psychological testing, staff meetings, etc. PR: l2 hours of PSY including 408 and Permission of Instructor
Pre-req: PSY 408.
Attributes: Capstone Course
Grade Mode: Normal Grading Mode

PSY 475 Race Culture and Development **3 Credit hours**
Examine the roles that race, ethnicity, and culture play in the physical, cognitive, intellectual, and social developmental processes of people of color. Examine the roles that race, ethnicity, and culture play in the physical, cognitive, intellectual, and social developmental processes of people of color.
Pre-req: PSY 201 with a minimum grade of D or PSY 201H with a minimum grade of D.
Grade Mode: Normal Grading Mode

PSY 480 Special Topics **1-4 Credit hours**
Pre-req: PSY 201 or PSY 201H.
Grade Mode: Normal Grading Mode

PSY 481 Special Topics **1-4 Credit hours**
Pre-req: PSY 201 or PSY 201H.
Grade Mode: Normal Grading Mode

PSY 482 Special Topics **1-4 Credit hours**
Pre-req: PSY 201 or PSY 201H.
Grade Mode: Normal Grading Mode

PSY 483 Special Topics **1-4 Credit hours**
Pre-req: PSY 201 or PSY 201H.
Grade Mode: Normal Grading Mode

PSY 485 Independent Study **1-4 Credit hours**
A course or seminar on some aspect of Psychology not otherwise treated in regular course offerings. A course or seminar on some aspect of Psychology not other- wise treated in regular course offerings.
Pre-req: PSY 201 with a minimum grade of D or PSY 201H with a minimum grade of D.
Grade Mode: Normal Grading Mode

PSY 486 Independent Study **1-4 Credit hours**
A course or seminar on some aspect of Psychology not otherwise treated in regular course offerings. A course or seminar on some aspect of Psychology not other- wise treated in regular course offerings.
Pre-req: PSY 201 with a minimum grade of D or PSY 201E with a minimum grade of D or PSY 201H with a minimum grade of D.
Attributes: No Textbook Required
Grade Mode: Normal Grading Mode

PSY 487 Independent Study **1-4 Credit hours**
A course or seminar on some aspect of Psychology not otherwise treated in regular course offerings. A course or seminar on some aspect of Psychology not other- wise treated in regular course offerings.
Pre-req: PSY 201 or PSY 201H.
Grade Mode: Normal Grading Mode

PSY 488 Independent Study **1-4 Credit hours**
A course or seminar on some aspect of Psychology not otherwise treated in regular course offerings. A course or seminar on some aspect of Psychology not other- wise treated in regular course offerings.
Pre-req: PSY 201 or PSY 201H.
Grade Mode: Normal Grading Mode

PSY 490 Intro to Teaching in Psych **3 Credit hours**
This course is designed to provide students with an introductory experience to teaching in psychology.
Attributes: Capstone Course
Grade Mode: Normal Grading Mode

PSY 491 Intro to Teaching in Psych **3 Credit hours**
This course is designed to provide students with an introductory experience to teaching in psychology.
Attributes: Capstone Course
Grade Mode: Normal Grading Mode

PSY 499 PSY Capstone Seminar **3 Credit hours**
A capstone course which integrates research methods, critical analysis, and problem solving applied to psychological questions and issues. A capstone course which integrates research methods, critical analysis, and problem solving applied to psychological questions and issues.
Pre-req: PSY 223 with a minimum grade of D and PSY 323 with a minimum grade of D.
Attributes: Capstone Course
Grade Mode: Normal Grading Mode

Public Health (PH)

- General Education Course

PH 101 Intro to Public Health **3 Credit hours**
Course introduces students to the concepts and models of public health.
Grade Mode: Normal Grading Mode

PH 105 Intro to Epidemiology **3 Credit hours**
This course provides an introduction to epidemiology for undergraduate students.
Grade Mode: Normal Grading Mode

PH 220 Social & Behavioral Health **3 Credit hours**
Develop basic literacy regarding social concepts and processes that influence health status and public health interventions. Understand interaction of biologic, behavioral, social and environmental factors influencing health status of population.
Grade Mode: Normal Grading Mode

PH 240 Control of Infectious Diseases **3 Credit hours**
Examination of infectious diseases from a public health perspective, including strategies for prevention, treatment, control and eradication.
Pre-req: PH 105.
Grade Mode: Normal Grading Mode

PH 260 Community Health & Devpt **3 Credit hours**
This course will provide the foundations for a study into the new relevant community health issues facing area residents and also worth an international perspective.
Grade Mode: Normal Grading Mode

PH 270 Global Health (CT) **3 Credit hours**
This course provides students the opportunity to study healthcare systems in developed and developing countries and compare these systems to the US healthcare systems.
Attributes: Critical Thinking, International
Grade Mode: Normal Grading Mode

PH 280 Public Health Special Topics **1-4 Credit hours**
With permission of program director.
Grade Mode: Normal Grading Mode

PH 281 Public Health Special Topics **1-4 Credit hours**
With permission of program director.
Grade Mode: Normal Grading Mode

PH 282 Public Health Special Topics **1-4 Credit hours**
With permission of program director.
Grade Mode: Normal Grading Mode

PH 283 Public Health Special Topics **1-4 Credit hours**
With permission of program director.
Grade Mode: Normal Grading Mode

PH 285 Environmental Health **3 Credit hours**
Major environmental health problems, including water quality, wastewater occupational health, trace elements in the environment, municipal and hazardous waste, food protection, vector control, and air quality are discussed.
Grade Mode: Normal Grading Mode

PH 301 PH Sys Design & Decision Analy **3 Credit hours**
This course develops conceptual and methodological skills for design and implementation of Public Health policy. This philosophy of scientific inquiry and systems approaches to problem solving are covered. This course develops conceptual and methodological skills for design and implementation of Public Health policy. This philosophy of scientific inquiry and systems approaches to problem solving are covered.
Grade Mode: Normal Grading Mode

PH 302 Know & Info in Practice of PH **3 Credit hours**
This course provides an overview of how information and knowledge are acquired and applied to public health problems. The philosophy of scientific inquiry and systems approaches to problem solving are covered. This course provides an overview of how information and knowledge are acquired and applied to public health problems. The philosophy of scientific inquiry and systems approaches to problem solving are covered.
Grade Mode: Normal Grading Mode

PH 305 Fdn & Form of PH Policy **3 Credit hours**
Introduction to policy development, establishment and implementation with a focus on critical health issues. Students will develop skills in addressing current problems in health policy.
Grade Mode: Normal Grading Mode

PH 350 Qualitative Research Mthds App **3 Credit hours**
The course focuses on theories and applications of qualitative research methods.
Pre-req: MTH 225.
Grade Mode: Normal Grading Mode

PH 380 Maternal and Child Health **3 Credit hours**
This course takes a life cycle approach to understand the health issues, needs, policies, and program implications for women and children with a global perspective.
Pre-req: PH 270.
Grade Mode: Normal Grading Mode

PH 401 Fond & Frmulatn of PH Policy **3 Credit hours**
In this course, students will be introduced to health policy and the process by which it is developed. Various approaches to the health policy are defined and their rationale considered. In this course, students will be introduced to health policy and the process by which it is developed. Various approaches to the health policy are defined and their rationale considered.
Grade Mode: Normal Grading Mode

PH 420 Topics in Health Policy **3 Credit hours**
This course provides in depth study of timely topics in health policy. High impact health reform issues will be examined, culminating in student formulation of a policy proposal.
Grade Mode: Normal Grading Mode

PH 430 Monitoring and Eval in PH **3 Credit hours**
Introduces students to the language and theory of program monitoring and evaluation. Facilitate understanding of managing and tracking results in public health programs.
Pre-req: PH 101 with a minimum grade of D and PH 105 with a minimum grade of D.
Grade Mode: Normal Grading Mode

PH 450 Urban and Rural Health **3 Credit hours**
Explores Public Health issues associated with rapid growth of urban population in developing countries and United States of America.
Pre-req: PH 101 and PH 270.
Grade Mode: Normal Grading Mode

PH 461 PH Competencies (Capstone) **3 Credit hours**
All students are expected to master a set of competencies during the course of their studies. The competencies that have been selected by the faculty of the College of Health Professions are derived from the Ten Essential Public Health Services. All students are expected to master a set of competencies during the course of their studies. The competencies that have been selected by the faculty of the College of Health Professions are derived from the Ten Essential Public Health Services.
Co-req: PH 456, PH 457
Attributes: Capstone Course
Grade Mode: Normal Grading Mode

PH 470 Quantitative Research Methods **3 Credit hours**
The course focuses on theoretical aspects of quantitative research methods in public health and health care.
Grade Mode: Normal Grading Mode

PH 471 Quant Research Methods Appl **3 Credit hours**
This course focuses on applications and techniques of quantitative research methods.
Grade Mode: Normal Grading Mode

PH 475 Comm/Non Comm Disease **3 Credit hours**
Introduces the concepts of communicable and non-communicable diseases and the burden they individually carry and how it impacts the health status of the population.
Pre-req: PH 101 with a minimum grade of D and PH 270 with a minimum grade of D.
Grade Mode: Normal Grading Mode

PH 480 Public Health Special Topics **1-4 Credit hours**
With permission of program director.
Grade Mode: Normal Grading Mode

PH 481 Public Health Special Topics **1-4 Credit hours**
With permission of program director.
Grade Mode: Normal Grading Mode

PH 482 Public Health Special Topics **1-4 Credit hours**
With permission of program director.
Grade Mode: Normal Grading Mode

PH 483 Public Health Special Topics **1-4 Credit hours**
With permission of program director.
Grade Mode: Normal Grading Mode

PH 485 Public Health Ind Study **1-4 Credit hours**
With permission of program director.
Grade Mode: Normal Grading Mode

PH 486 Public Health Ind Study **1-4 Credit hours**
With permission of program director.
Grade Mode: Normal Grading Mode

PH 487 Public Health Ind Study **1-4 Credit hours**
With permission of program director.
Grade Mode: Normal Grading Mode

PH 488 Public Health Ind Study **1-4 Credit hours**
With permission of program director.
Grade Mode: Normal Grading Mode

PH 490 Public Health Intern/Capstone **3 Credit hours**
This is 320 hours total on-the-job experiences. The duration of the internship is planned to allow the variety of experiences that will provide the most benefits to the students.
Attributes: Capstone Course
Grade Mode: Normal Grading Mode

Religious Studies (RST)

- General Education Course

RST 205 Religious Trads of West **3 Credit hours**
A comparative study of major religious traditions of the Western world: Judaism, Christianity, Islam, Zorastrianism and religions of the Americas. A comparative study of major religious traditions of the Western world: Judaism, Christianity, Islam, Zorastrianism and religions of the Americas.
Attributes: Core II Humanities, International
Grade Mode: Normal Grading Mode

RST 206 Religious Traditions Asia **3 Credit hours**
A comparative study of the major religious traditions of Asia: Hinduism, Buddhism, Confucianism, Taoism and Shinto, and how these religions have influenced Asian thought and cultures. A comparative study of the major religious traditions of Asia: Hinduism, Buddhism, Confucianism, Taoism and Shinto, and how these religions have influenced Asian thought and cultures.
Attributes: Core II Humanities, International
Grade Mode: Normal Grading Mode

RST 207 Biblical Geography **3 Credit hours**
Students explore the physical and human geography of ancient Palestine and assess how geography informs our understanding of people, events, and places described by Jewish and Christian scriptures.
Grade Mode: Normal Grading Mode

RST 220 Lit of Old Testament **3 Credit hours**
Traces the origins, growth and development of the literature of Hebrew people to the Greek period. Includes an introduction to and application of modern tools of biblical study. Traces the origins, growth and development of the literature of Hebrew people to the Greek period. Includes an introduction to and application of modern tools of biblical study.
Attributes: Core II Humanities, Literature
Grade Mode: Normal Grading Mode

RST 225 Lit of New Testament **3 Credit hours**
Traces the origins, growth, and development of the literature of the early Christian church. Includes an introduction to and application of modern tools of biblical study. Traces the origins, growth, and development of the literature of the early Christian church. Includes an introduction to and application of modern tools of biblical study.
Attributes: Core II Humanities, Literature
Grade Mode: Normal Grading Mode

RST 250 Humanities and Film (CT) **3 Credit hours**
An interdisciplinary course to introduce students to the elements of a humanistic education through study of film. (Same as Philosophy 250 and Classics 250; PR or CR: ENG 101)
Pre-req: ENG 101 with a minimum grade of C or ENG 200H (may be taken concurrently) or ENG 201H (may be taken concurrently) or ENG 101P (may be taken concurrently).
Concurrent PR: ENG 101 or ENG 200H or ENG 201H or ENG 101P
Attributes: Critical Thinking, Core II Humanities, Literature, Multicultural
Grade Mode: Normal Grading Mode

RST 280 Special Topics **1-4 Credit hours**
Research adaptable to the needs of the individual student. Research adaptable to the needs of the individual student.
Grade Mode: Normal Grading Mode

RST 281 Special Topics **1-4 Credit hours**
Research adaptable to the needs of the individual student. Research adaptable to the needs of the individual student.
Grade Mode: Normal Grading Mode

RST 282 Special Topics **1-4 Credit hours**
Research adaptable to the needs of the individual student. Research adaptable to the needs of the individual student.
Grade Mode: Normal Grading Mode

RST 283 Special Topics **1-4 Credit hours**
Research adaptable to the needs of the individual student. Research adaptable to the needs of the individual student.
Grade Mode: Normal Grading Mode

RST 300 The Nature of Religion **3 Credit hours**
An analysis of the nature of religious personalities, institutions, literature, philosophies, experiences, and education. An analysis of the nature of religious personalities, institutions, literature, philosophies, experiences, and education.
Attributes: Multicultural
Grade Mode: Normal Grading Mode

RST 303 World of Islam **3 Credit hours**
An examination of the global cultures of Islam with particular focus upon the origin and development of the religion which binds them together. An examination of the global cultures of Islam with particular focus upon the origin and development of the religion which binds them together.
Attributes: International
Grade Mode: Normal Grading Mode

RST 304 The Teachings of Jesus **3 Credit hours**
An analysis of early Christian writing and a systematic study of the message of the historical Jesus that stands behind it. An analysis of early Christian writing and a systematic study of the message of the historical Jesus that stands behind it.
Attributes: Literature
Grade Mode: Normal Grading Mode

RST 305 Early Christianity **3 Credit hours**
Traces the background, birth, and development of Christian thought from Paul through Augustine. Traces the background, birth, and development of Christian thought from Paul through Augustine.
Grade Mode: Normal Grading Mode

RST 310 The Hebrew Prophets **3 Credit hours**
The rise of the office of prophet and the contributions of prophecy to religion. The rise of the office of prophet and the contributions of prophecy to religion.
Attributes: Literature
Grade Mode: Normal Grading Mode

RST 311 Jewish Holocaust **3 Credit hours**
An examination of the religious/philosophical questions raised by the Holocaust of European Jews: Why and how did it occur? What does it tell us about religion and humanity? An examination of the religious/philosophical questions raised by the Holocaust of European Jews: Why and how did it occur? What does it tell us about religion and humanity?
Grade Mode: Normal Grading Mode

RST 319 ABCs of Orthodoxy **3 Credit hours**
An examination of Eastern Orthodox Christianity from the culture in which it was birthed to its place in today's society. An examination of Eastern Orthodox Christianity from the culture in which it was birthed to its place in today's society.
Grade Mode: Normal Grading Mode

RST 321 The Protestant Faith **3 Credit hours**
An examination of the distinctive historical and theological features of the Protestant movement in Western Christendom, with special attention to the distinctive beliefs and practices of contemporary American denominations. An examination of the distinctive historical and theological features of the Protestant movement in Western Christendom, with special attention to the distinctive beliefs and practices of contemporary American denominations.
Grade Mode: Normal Grading Mode

RST 323 Religion in America **3 Credit hours**
The rise and development of religious thinking in America. (Same as History 323) The rise and development of religious thinking in America. (Same as History 323)
Grade Mode: Normal Grading Mode

RST 324 The Jewish Way of Life **3 Credit hours**
An exploration of the distinctive features of the heritage of modern Judaism. An integrated approach to the study of Jewish religious practices, teachings, literature, and contributions to contemporary life. An exploration of the distinctive features of the heritage of modern Judaism. An integrated approach to the study of Jewish religious practices, teachings, literature, and contributions to contemporary life.
Grade Mode: Normal Grading Mode

RST 351 Classics of Rel Lit **3 Credit hours**
A contextual analysis of selected popular regigious classics, e.g., Foxe's Book of Martyrs, Bunyan's Pilgrim's Progress, St. Augustine's Confessions, Bhagavad-Gita, and the like. A contextual analysis of selected popular regigious classics, e.g., Foxe's Book of Martyrs, Bunyan's Pilgrim's Progress, St. Augustine's Confessions, Bhagavad-Gita, and the like.
Attributes: Literature
Grade Mode: Normal Grading Mode

RST 360 Hindu Mysticism **3 Credit hours**
A general survey of religious life and mysticism throughout South Asian history. A general survey of religious life and mysticism throughout South Asian history.
Grade Mode: Normal Grading Mode

RST 361 Buddhism **3 Credit hours**
General survey of Buddhist life throughout history and around the world. General survey of Buddhist life throughout history and around the world.
Attributes: International
Grade Mode: Normal Grading Mode

RST 390 Junior Seminar in Humanities **3 Credit hours**
A structured interdisciplinary study offered by the departments of Classics, Philosopy and Religious Studies in the foundations of human thought, myth, literature, religion, philosophy, art. (Same as Classics 390 - 394 and Philosophy 390 - 394).
Pre-req: ENG 102 or ENG 302 or ENG 201H or YGS 162 or IST 201 or CL 231 or CL 232 or CL 233 or CL 319 or PHL 200 or PHL 201 or PHL 303 or PHL 321 or PHL 340 or PHL 353 or RST 205 or RST 206 or RST 300 or RST 304 or RST 320 or RST 325.
Grade Mode: Normal Grading Mode

RST 391 Junior Seminar in Humanities **3 Credit hours**
A structured interdisciplinary study offered by the departments of Classics, Philosopy and Religious Studies in the foundations of human thought, myth, literature, religion, philosopy, art. (Same as Classics 390 - 394 and Philosophy 390 - 394).
Pre-req: ENG 102 or ENG 302 or ENG 201H or YGS 162 or IST 201 or CL 231 or CL 232 or CL 233 or CL 319 or PHL 200 or PHL 201 or PHL 303 or PHL 321 or PHL 340 or PHL 353 or RST 205 or RST 206 or RST 300 or RST 304 or RST 320 or RST 325.
Grade Mode: Normal Grading Mode

RST 392 Junior Seminar **3 Credit hours**
A structured interdisciplinary study offered by the departments of Classics, Philosophy and Religious Studies in the foundations of human thought, myth, literature, religion, philosophy, art. (Same as Classics 390 - 394 and Philosopy 390 - 394).
Pre-req: ENG 102 or ENG 302 or ENG 201H or YGS 162 or IST 201 or CL 231 or CL 232 or CL 233 or CL 319 or PHL 200 or PHL 201 or PHL 303 or PHL 321 or PHL 340 or PHL 353 or RST 205 or RST 206 or RST 300 or RST 304 or RST 320 or RST 325.
Grade Mode: Normal Grading Mode

RST 393 Junior Seminar in Humanities **3 Credit hours**
A structured interdisciplinary study offered by the departments of Classics, Philosophy and Religious Studies in the foundations of human thought, myth, literature, religion, philosophy, art. (Same as Classics 390 - 394 and Philosophy 390 - 394).
Pre-req: ENG 102 or ENG 302 or ENG 201H or YGS 162 or IST 201 or CL 231 or CL 232 or CL 233 or CL 319 or PHL 200 or PHL 201 or PHL 303 or PHL 321 or PHL 340 or PHL 353 or RST 205 or RST 206 or RST 300 or RST 304 or RST 320 or RST 325.
Grade Mode: Normal Grading Mode

RST 394 Junior Seminar in Humanities **3 Credit hours**
A structured interdisciplinary study offered by the departments of Classics, Philosophy and Religious Studies in the foundations of human thought, myth, literature, religion, philosophy, art. (Same as Classics 390 - 394 and Philosophy 390 - 394).
Pre-req: ENG 102 or ENG 302 or ENG 201H or YGS 162 or IST 201 or CL 231 or CL 232 or CL 233 or CL 319 or PHL 200 or PHL 201 or PHL 303 or PHL 321 or PHL 340 or PHL 353 or RST 205 or RST 206 or RST 300 or RST 304 or RST 320 or RST 325.
Grade Mode: Normal Grading Mode

RST 419 Rel Thought in West World **3 Credit hours**
An analysis of the major schools of religious thought as they have developed in the West. An analysis of the major schools of religious thought as they have developed in the West.
Grade Mode: Normal Grading Mode

RST 450 Sociology of Religion **3 Credit hours**
An investigation into religion as a social phenomenon. An investigation into religion as a social phenomenon.
Grade Mode: Normal Grading Mode

RST 480 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

RST 481 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

RST 482 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

RST 483 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

RST 485 Independent Study **1-4 Credit hours**
Attributes: No Textbook Required
Grade Mode: Normal Grading Mode

RST 486 Independent Study **1-4 Credit hours**
Grade Mode: Normal Grading Mode

RST 487 Independent Study **1-4 Credit hours**
Grade Mode: Normal Grading Mode

RST 488 Independent Study **1-4 Credit hours**
Grade Mode: Normal Grading Mode

RST 490 Senior Seminar in Humanities **3 Credit hours**
Disigned for majors as a senior humanities seminar and the culminating interdisciplinary study in the Humanities program. (Same as Classics 490 -494 and Philosopy 490 - 494),
Pre-req: ENG 102 or ENG 302 or ENG 201H or YGS 162 or IST 201 or CL 231 or CL 232 or CL 233 or CL 319 or PHL 200 or PHL 201 or PHL 303 or PHL 321 or PHL 340 or PHL 353 or RST 205 or RST 206 or RST 300 or RST 304 or RST 320 or RST 325.
Grade Mode: Normal Grading Mode

RST 491 Senior Seminar in Humanities **3 Credit hours**
Designed for majors as a senior humanities seminar and the culminating interdisciplinary study in the Humanities program. (Same as Classics 490 - 494 and Philosphy 490 - 494).
Pre-req: ENG 102 or ENG 302 or ENG 201H or YGS 162 or IST 201 or CL 231 or CL 232 or CL 233 or CL 319 or PHL 200 or PHL 201 or PHL 303 or PHL 321 or PHL 340 or PHL 353 or RST 205 or RST 206 or RST 300 or RST 304 or RST 320 or RST 325.
Grade Mode: Normal Grading Mode

RST 492 Senior Seminar in Humanities **3 Credit hours**
Designed for majors as a senior humanities seminar and the culminating interdisciplinary study in the Humanities program. Same as Classics 490 - 494 and Philosophy 490 - 494).
Pre-req: ENG 102 or ENG 302 or ENG 201H or YGS 162 or IST 201 or CL 231 or CL 232 or CL 233 or CL 319 or PHL 200 or PHL 201 or PHL 303 or PHL 321 or PHL 340 or PHL 353 or RST 205 or RST 206 or RST 300 or RST 304 or RST 320 or RST 325.
Grade Mode: Normal Grading Mode

RST 493 Senior Seminar in Humanities **3 Credit hours**
Designed for majors as a senior humanities seminar and the culminating interdisciplinary study in the Humanities program. (Same as Classics 490 - 494 and Philosophy 490 - 494).
Pre-req: ENG 102 or ENG 302 or ENG 201H or YGS 162 or IST 201 or CL 231 or CL 232 or CL 233 or CL 319 or PHL 200 or PHL 201 or PHL 303 or PHL 321 or PHL 340 or PHL 353 or RST 205 or RST 206 or RST 300 or RST 304 or RST 320 or RST 325.
Grade Mode: Normal Grading Mode

RST 494 Senior Seminar in Humanities **3 Credit hours**
Designed for majors as a senior humanities seminar and the culminating interdisciplinary study in the Humanities program. (Same as Classics 490 -494 and Philosophy 490 - 494).
Pre-req: ENG 102 or ENG 302 or ENG 201H or YGS 162 or IST 201 or CL 231 or CL 232 or CL 233 or CL 319 or PHL 200 or PHL 201 or PHL 303 or PHL 321 or PHL 340 or PHL 353 or RST 205 or RST 206 or RST 300 or RST 304 or RST 320 or RST 325.
Grade Mode: Normal Grading Mode

Respiratory Care (RSP)

- General Education Course

RSP 100 Respiratory Pharmacology **3 Credit hours**
Introduces the student to basic pharmacology of medicines used in respiratory care and physiological implications on the human body.
Pre-req: BSC 227 (may be taken concurrently) with a minimum grade of C and BSC 228 with a minimum grade of C and BSC 250 with a minimum grade of C and RSP 101 with a minimum grade of C and RSP 102 with a minimum grade of C and RSP 102L with a minimum grade of C.
Concurrent PR: BSC 227
Co-req: RSP 201, RSP 202, RSP 203
Grade Mode: Normal Grading Mode

RSP 101 Intro to Respiratory Care **3 Credit hours**
Introduces the student to the history of respiratory care and professional organizations. Emphasis is on the role of the respiratory therapist as a member of the health care team.
Pre-req: BSC 227 with a minimum grade of C and BSC 228 with a minimum grade of C.
Co-req: RSP 102, RSP 102L
Grade Mode: Normal Grading Mode

RSP 102 Intro Resp Care Procedures **3 Credit hours**
Administration of medical gases, humidity and aerosol therapy with emphasis on the handling of medical gases and safety in administration. Techniques of therapeutic procedures used in respiratory care are included.
Pre-req: BSC 227 with a minimum grade of C and BSC 228 with a minimum grade of C.
Co-req: RSP 101, RSP 102L
Grade Mode: Normal Grading Mode

RSP 102L Respiratory Lab **1 Credit hour**
Administration of medical gases, humidity and aerosol therapy with emphasis on the handling of medical gases and safety in administration. Techniques of therapeutic procedures used in respiratory care are included.
Pre-req: BSC 227 with a minimum grade of C and BSC 228 with a minimum grade of C.
Co-req: RSP 101, RSP 102
Grade Mode: Normal Grading Mode

RSP 200B Concepts of Respiratory Care **5 Credit hours**
Designed for the board certified and state licensed CRT to enter into advanced respiratory practice. Emphasis is on concepts and principles for professional practice as an RRT.
Grade Mode: Normal Grading Mode

RSP 201 Pulmonary Pathophys **3 Credit hours**
Emphasis is placed on the etiology, signs and symptoms, pathology, clinical manifestations, sequellae, and treatment. The respiratory therapist's role in the recognition and treatment of pulmonary diseases is highlighted.
Pre-req: BSC 227 with a minimum grade of C and BSC 228 with a minimum grade of C and BSC 250 with a minimum grade of C and RSP 101 with a minimum grade of C and RSP 102 with a minimum grade of C and RSP 102L with a minimum grade of C.
Co-req: RSP 100, RSP 202, RSP 203
Grade Mode: Normal Grading Mode

RSP 202 Mech Vent Tech & MGT **3 Credit hours**
An introduction to the fundamentals of mechanical ventilation techniques and terminology. Monitoring and the ability to solve clinical problems relating to mechanical ventilation are emphasized. Lab included.
Pre-req: BSC 227 with a minimum grade of C and BSC 228 with a minimum grade of C and BSC 250 with a minimum grade of C and RSP 101 with a minimum grade of C and RSP 102 with a minimum grade of C and RSP 102L with a minimum grade of C.
Co-req: RSP 100, RSP 201, RSP 203
Grade Mode: Normal Grading Mode

RSP 203 Respiratory Internship I **4 Credit hours**
Emphasis is on information gathering from the patient record, physical evaluation of the patient and basic respiratory interventions.
Pre-req: BSC 227 with a minimum grade of C and BSC 228 with a minimum grade of C and BSC 250 with a minimum grade of C and RSP 101 with a minimum grade of C and RSP 102 with a minimum grade of C and RSP 102L with a minimum grade of C.
Co-req: RSP 100, RSP 201, RSP 202
Grade Mode: Normal Grading Mode

RSP 204 Pulmonary Rehab/Home Care **1 Credit hour**
Emphasis on the care of the patient with long term pulmonary disability requiring home care. Psychosocial and physical needs are addressed with emphasis of quality of life and cardiopulmonary reserve.
Pre-req: RSP 203 with a minimum grade of C.
Co-req: RSP 205, RSP 206, RSP 207, RSP 208, RSP 209
Grade Mode: Normal Grading Mode

RSP 205 Cardiopulmonary Diag **3 Credit hours**
Emphasis on advanced techniques of pulmonary function testing. Topics include lung volume determination, diffusion/distribution of ventilation, invasive and non invasive methods of arterial blood gas sampling, analysis, and interpretation.
Pre-req: RSP 203 with a minimum grade of C.
Co-req: RSP 206, RSP 207
Grade Mode: Normal Grading Mode

RSP 206 Neonatal/Pediatric Care **3 Credit hours**
Provide knowledge of neonatal/pediatric patients; fetal cardiopulmonary development and changes at birth, care methods used and evaluation of neonatal and pediatric patients are covered.
Pre-req: RSP 100 with a minimum grade of C and RSP 201 with a minimum grade of C and RSP 202 with a minimum grade of C and RSP 203 with a minimum grade of C.
Co-req: RSP 207, RSP 208, RSP 209, RSP 211, RSP 212
Grade Mode: Normal Grading Mode

RSP 207 Intro Critical Care MGT **3 Credit hours**
Designed to provide the student with knowledge of airway management, transtrachael oxygen therapy and aspiration, broncholscopy, thoracentisis, pleural chest tubes, arterial lines, ABG interpretation and analysis, transports, and electrocardiogram interpretation.
Pre-req: RSP 100 with a minimum grade of C and RSP 201 with a minimum grade of C and RSP 202 with a minimum grade of C and RSP 203 with a minimum grade of C.
Co-req: RSP 206, RSP 208, RSP 209, RSP 211, RSP 212
Grade Mode: Normal Grading Mode

RSP 208 Respiratory Care Seminar **1 Credit hour**
Introduces the student to NBRC exam taking skills, mock examinations of the NBRC matrix, realistic clinical problems and situations with emphasis on critical thinking and problem solving.
Pre-req: RSP 100 with a minimum grade of C and RSP 201 with a minimum grade of C and RSP 202 with a minimum grade of C and RSP 203 with a minimum grade of C.
Co-req: RSP 206, RSP 207, RSP 209, RSP 211, RSP 212
Grade Mode: Normal Grading Mode

RSP 209 Respiratory Internship II **4 Credit hours**
Emphasis is on supervised practice of humidity and aerosol therapy, aerosol drug therapy, lung inflation therapy and techniques used in electrocardiography.
Pre-req: RSP 100 with a minimum grade of C and RSP 201 with a minimum grade of C and RSP 202 with a minimum grade of C and RSP 203 with a minimum grade of C.
Co-req: RSP 206, RSP 207, RSP 208, RSP 211, RSP 212
Grade Mode: Normal Grading Mode

RSP 210 Respiratory Internship III **4 Credit hours**
Emphasis is on supervised practice of arterial blood gas sampling and analysis, arterial line management, chest tube management, ECGs observation of hemodynamic measurement and monitoring, IABP management.
Pre-req: RSP 100 with a minimum grade of C and RSP 201 with a minimum grade of C and RSP 202 with a minimum grade of C and RSP 203 with a minimum grade of C and RSP 209 with a minimum grade of C.
Co-req: RSP 303, RSP 309
Grade Mode: Normal Grading Mode

RSP 211 Dynamics of Pulmonary **2 Credit hours**
Emphasis is placed on the interaction of systems in gas exchange and renal involvement in acid base balance.
Pre-req: RSP 100 with a minimum grade of C and RSP 201 with a minimum grade of C and RSP 202 with a minimum grade of C and RSP 203 with a minimum grade of C.
Co-req: RSP 206, RSP 207, RSP 208, RSP 209, RSP 212
Grade Mode: Normal Grading Mode

RSP 212 Acute/Chronic Pulmonary Mgt **3 Credit hours**
This is a 3 hour couse with emphasis placed on pulmonary function testing/interpretation and care of a patient with long term pulmonary disability requiring home care and rehabilitation.
Pre-req: RSP 100 with a minimum grade of C and RSP 201 with a minimum grade of C and RSP 202 with a minimum grade of C and RSP 203 with a minimum grade of C.
Co-req: RSP 206, RSP 207, RSP 208, RSP 209, RSP 211
Grade Mode: Normal Grading Mode

RSP 301 Intro Resp Care MGT **3 Credit hours**
Introduces the student to the basic principles of management in the respiratory care department. Includes theory, scope of management, quality issues, budgeting, personnel issues, evaluation and application of management concept.
Grade Mode: Normal Grading Mode

RSP 302 Respiratory Internship IV **4 Credit hours**
Emphasis is on cardiopulmonary assessment and treatment of trauma, post-surgical, cardiac, renal, neonatal and pediatric patients with refinement of monitoring procedures and interpretation of data.
Pre-req: RSP 206 with a minimum grade of C and RSP 207 with a minimum grade of C and RSP 208 with a minimum grade of C and RSP 209 with a minimum grade of C and RSP 211 with a minimum grade of C and RSP 212 with a minimum grade of C.
Co-req: RSP 304, RSP 307, RSP 402
Grade Mode: Normal Grading Mode

RSP 303 Clinical Respiratory Education **3 Credit hours**
Designed as an introduction to clinical teaching in a respiratory care program. Emphasis is on instructional and evaluation strategies and development of performance objectives.
Pre-req: RSP 206 with a minimum grade of C and RSP 207 with a minimum grade of C and RSP 208 with a minimum grade of C and RSP 209 with a minimum grade of C and RSP 211 with a minimum grade of C and RSP 212 with a minimum grade of C.
Co-req: RSP 308
Grade Mode: Normal Grading Mode

RSP 304 Adv Neonatal & Pediatrics **3 Credit hours**
Advanced study of neonatal/pediatric pathophysiology including parenchymal disease, obstructive airway disease, lesions of the lungs and airways, congenital abnormalities, respiratory distress syndrome, apnea disorders, neurological disorders and trauma. (PR: RSP 206)
Pre-req: RSP 303 with a minimum grade of C and RSP 308 with a minimum grade of C.
Co-req: RSP 302, RSP 307, RSP 401
Grade Mode: Normal Grading Mode

RSP 305 Resp Cost MGT & Solutions **3 Credit hours**
Introduces the student to cost solutions for respiratory departments. Topics include annual budgets, purchasing decisions, effective staffing, inventory and supply controls and cost-containment methods.
Co-req: RSP 306
Grade Mode: Normal Grading Mode

RSP 306 Resp Care Performance Improv **3 Credit hours**
Provides basic principles associated with Total Quality Management (TQM) and Continuous Quality Improvement (CQI) to aid in problem identification and quality problem-solving for respiratory care departments.
Co-req: RSP 305
Grade Mode: Normal Grading Mode

RSP 307 Adv Tech Adult Critical Care **4 Credit hours**
Emphasis is on current respiratory care procedures for the critically ill adult patient with exploration into newer techniques.
Pre-req: RSP 303 with a minimum grade of C and RSP 308 with a minimum grade of C.
Co-req: RSP 302, RSP 304, RSP 401
Grade Mode: Normal Grading Mode

RSP 308 Resp Mgt & Quality Improvement **3 Credit hours**
This course introduces the student to basic management principles of a respiratory department. Discussion includes, scope of management, quality issues, budgeting, personnel issues, and evaluation and application of management concepts.
Pre-req: RSP 206 with a minimum grade of C and RSP 207 with a minimum grade of C and RSP 208 with a minimum grade of C and RSP 209 with a minimum grade of C and RSP 211 with a minimum grade of C and RSP 212 with a minimum grade of C.
Co-req: RSP 210, RSP 303
Grade Mode: Normal Grading Mode

RSP 314 Adv Mechanical Ventilation **3 Credit hours**
Advanced theory and application of mechanical ventilation. Study of various mechanical ventilators and artificial airways, with major emphasis placed on all aspects of the management of the patient-ventilator system.
Pre-req: RSP 202 with a minimum grade of C.
Grade Mode: Normal Grading Mode

RSP 401 Intro to Sleep Disorders **4 Credit hours**
Designed to teach how a polysomnogram is performed, the major categories of sleep disorders, the presenting symptoms of sleep apnea, narcolepsy, psycholphysiological insomnia and sleep disturbance due to depression.
Pre-req: RSP 303 with a minimum grade of C and RSP 308 with a minimum grade of C.
Co-req: RSP 302, RSP 304, RSP 307
Grade Mode: Normal Grading Mode

RSP 402 Respiratory MGT **3 Credit hours**
Designed to examine respiratory care in rual America. This course will address the key issues confronting rural respiratory healthcare today, examine the causes and develop solutions to the issues.
Pre-req: RSP 302 with a minimum grade of C and RSP 303 with a minimum grade of C and RSP 304 with a minimum grade of C and RSP 307 with a minimum grade of C and RSP 308 with a minimum grade of C.
Co-req: RSP 403, RSP 404, RSP 420
Grade Mode: Normal Grading Mode

RSP 403 Respiratory Care Research **3 Credit hours**
Designed to provide the student knowledge about survey of research problems, methods, and designs utilized in respiratory care, with emphasis on data presentation and analysis.
Pre-req: RSP 302 with a minimum grade of C and RSP 303 with a minimum grade of C and RSP 304 with a minimum grade of C and RSP 307 with a minimum grade of C and RSP 308 with a minimum grade of C and (STA 225 with a minimum grade of C or MGT 218 with a minimum grade of C or PSY 223 with a minimum grade of C or EDF 417 with a minimum grade of C or BSC 417 with a minimum grade of C).
Co-req: RSP 402, RSP 404, RSP 420
Grade Mode: Normal Grading Mode

RSP 404 Adv Respiratory Care Practicum **4 Credit hours**
Advanced respiratory techniques and management for clients across the life-span.
Pre-req: RSP 302 with a minimum grade of C and RSP 303 with a minimum grade of C and RSP 304 with a minimum grade of C and RSP 307 with a minimum grade of C and RSP 308 with a minimum grade of C and (STA 225 with a minimum grade of C or MGT 218 with a minimum grade of C or PSY 223 with a minimum grade of C or EDF 417 with a minimum grade of C or BSC 417 with a minimum grade of C).
Co-req: RSP 402, RSP 403, RSP 420
Grade Mode: Normal Grading Mode

RSP 405 Flight/Hyperbaric Care **3 Credit hours**
Advanced respiratory techniques related to physiologic stressors impacting patient care due to atmospheric impact and pressure gradients and unique hazards in these environments to patients and staff.
Co-req: RSP 420
Grade Mode: Normal Grading Mode

RSP 406 Community Respiratory Care **3 Credit hours**
Designed for the student to provide care in a variety of settings including clinics, schools and other settings utilizing principles of public health and client and family teaching.
Grade Mode: Normal Grading Mode

RSP 407 Clinical Decision Making **3 Credit hours**
The course focuses on gathering appropriate clinical information to make evidence-based decisions in the treatment for respiratory care diseases.
Pre-req: RSP 201 with a minimum grade of C.
Grade Mode: Normal Grading Mode

RSP 420 Capstone in Respiratory Care **5 Credit hours**
Role synthesis practicum incorporating provider of care, coordinator of care, member of profession and leadership roles.
Pre-req: RSP 302 with a minimum grade of C and RSP 303 with a minimum grade of C and RSP 307 with a minimum grade of C and RSP 308 with a minimum grade of C and (STA 225 with a minimum grade of C or MGT 218 with a minimum grade of C or PSY 223 with a minimum grade of C or EDF 417 with a minimum grade of C or BSC 417 with a minimum grade of C).
Co-req: RSP 402, RSP 403, RSP 404
Attributes: Capstone Course
Grade Mode: Normal Grading Mode

RSP 480 Special Topics **1-4 Credit hours**
Study of topics not available in other courses.
Grade Mode: Normal Grading Mode

RSP 481 Special Topics **1-4 Credit hours**
Study of topics not available in other courses.
Grade Mode: Normal Grading Mode

RSP 482 Special Topics **1-4 Credit hours**
Study of topics not available in other courses.
Grade Mode: Normal Grading Mode

RSP 483 Special Topics **1-4 Credit hours**
Study of topics not available in other courses.
Grade Mode: Normal Grading Mode

RSP 485 Independent Study **1-4 Credit hours**
Course will consist of directed and independent readings, directed and independent research, problem reports, or tutorials. Will allow students to complete individualized learning in respiratory care.
Grade Mode: Normal Grading Mode

RSP 486 Independent Study **1-4 Credit hours**
Course will consist of directed and independent readings, directed and independent research, problem reports, or tutorials. Will allow students to complete individualized learning in respiratory care.
Grade Mode: Normal Grading Mode

RSP 487 Independent Study **1-4 Credit hours**
Course will consist of directed and independent readings, directed and independent research, problem reports, or tutorials. Will allow students to complete individualized learning in respiratory care.
Grade Mode: Normal Grading Mode

RSP 488 Independent Study **1-4 Credit hours**
Course will consist of directed and independent readings, directed and independent research, problem reports, or tutorials. Will allow students to complete individualized learning in respiratory care.
Grade Mode: Normal Grading Mode

Safety Technology (SFT)

- General Education Course

SFT 235 Intro to Occup Safety (CT) **3 Credit hours**
Introduction to occupational safety and health on an international level. Comparisons of various accidents by type and country will be explored along with prevention techniques.
Attributes: Critical Thinking, International, No Textbook Required
Grade Mode: Normal Grading Mode

SFT 280 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

SFT 281 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

SFT 282 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

SFT 283 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

SFT 340 Indust Fire Prevent **3 Credit hours**
Pre-req: SFT 235 (may be taken concurrently) with a minimum grade of C and (PHY 201 (may be taken concurrently) with a minimum grade of D or PHY 211 (may be taken concurrently) with a minimum grade of D) and PHY 202 (may be taken concurrently) with a minimum grade of D.
Concurrent PR: SFT 235 and (PHY 201 or PHY 211) and PHY 202
Grade Mode: Normal Grading Mode

SFT 350 Safety Technology Co-Op **0 Credit hours**
A supervised experience in which the student works for a company to gain practical experience in a students major.
Pre-req: ENGR 217 with a minimum grade of D.
Grade Mode: Credit/No Credit Grade Only

SFT 372 Safety & Industrial Tech **3 Credit hours**
Pre-req: SFT 235 with a minimum grade of D.
Grade Mode: Normal Grading Mode

SFT 373 Prin Ergonomics & Hum Factors **3 Credit hours**
Introductory principles within human-machine relationships; examining the biological, physiological, and psychological factors which contribute to accident causation.
Pre-req: SFT 373L (may be taken concurrently) with a minimum grade of D and (PHY 203 (may be taken concurrently) with a minimum grade of D or PHY 212 (may be taken concurrently) with a minimum grade of D) and PHY 204 (may be taken concurrently) with a minimum grade of D.
Concurrent PR: SFT 373L and (PHY 203 or PHY 212) and PHY 204
Co-req: SFT 373L
Attributes: No Textbook Required
Grade Mode: Normal Grading Mode

SFT 373L Prin of Ergonomics Lab **1 Credit hour**
A laboratory course designed to include the principles and applications of human factors/ergonomics that were introduced in SFT 373.
Pre-req: SFT 373 (may be taken concurrently) with a minimum grade of D and (PHY 203 (may be taken concurrently) with a minimum grade of D or PHY 212 (may be taken concurrently) with a minimum grade of D) and PHY 204 (may be taken concurrently) with a minimum grade of D.
Concurrent PR: SFT 373 and (PHY 203 or PHY 212) and PHY 204
Co-req: SFT 373
Attributes: No Textbook Required
Grade Mode: Normal Grading Mode

SFT 375 Construction Safety I **3 Credit hours**
Pre-req: SFT 235 (may be taken concurrently).
Concurrent PR: SFT 235
Grade Mode: Normal Grading Mode

SFT 378 Safety Eval & Measurement **3 Credit hours**
Pre-req: SFT 235 or SED 235.
Grade Mode: Normal Grading Mode

SFT 385 Traffic Safety & Driver Educa **3 Credit hours**
An introductory course in the teaching of safety and driver education, including techniques of classroom and behind-the- wheel instruction. 2 lec-2 lab.
Grade Mode: Normal Grading Mode

SFT 400 Traffic Law Enforcement **3 Credit hours**
A course designed to study and evaluate the varied and complex system of laws governing the control of all forms of traffic and the influences and responsibilities of traffic law enforcement in presentday society.
Grade Mode: Normal Grading Mode

SFT 453 International Safety & Health **3 Credit hours**
The course covers the impact of globalization on worldwide safety and health programs, and a wide variety of safety and health programs for various countries and multinational organizations.
Attributes: International
Grade Mode: Normal Grading Mode

SFT 454 Industrial Hygiene **3 Credit hours**
Environmental protection as related to industrial settings. Air/water quality, noise and chemical pollution and hazardous material control.
Pre-req: CHM 212 with a minimum grade of C and CHM 218 with a minimum grade of C and (PHY 203 with a minimum grade of C or PHY 212 with a minimum grade of C) and PHY 204 with a minimum grade of C and SFT 465 (may be taken concurrently) with a minimum grade of C and SFT 454L (may be taken concurrently) with a minimum grade of D.
Concurrent PR: SFT 465 and SFT 454L
Grade Mode: Normal Grading Mode

SFT 454L Industrial Hygiene Lab **2 Credit hours**
Quantitative monitoring techniques for measuring air and water quality, the measurement of noise and chemical pollutions and the evaluation of other physical hazards.
Pre-req: SFT 465 (may be taken concurrently) with a minimum grade of C and SFT 454 (may be taken concurrently) with a minimum grade of D and CHM 212 (may be taken concurrently) with a minimum grade of C and CHM 218 (may be taken concurrently) with a minimum grade of C and (PHY 203 (may be taken concurrently) with a minimum grade of C or PHY 212 (may be taken concurrently) with a minimum grade of C) and PHY 204 (may be taken concurrently) with a minimum grade of C.
Concurrent PR: SFT 465 and SFT 454 and CHM 212 and CHM 218 and (PHY 203 or PHY 212) and PHY 204
Grade Mode: Normal Grading Mode

SFT 458 Hospital Safety **3 Credit hours**
The course covers the various aspects of safety and health in professional health care services.
Grade Mode: Normal Grading Mode

SFT 460 Safety Training Methods **3 Credit hours**
A course designed to help students develop, present and evaluate training materials as mandated by OSHA or other governmental agencies. Hands on practice & live training will be required.
Pre-req: SFT 372 or SFT 375.
Grade Mode: Normal Grading Mode

SFT 461 Workers Compensation **3 Credit hours**
Introductory principles of workers' compensation and how it relates to the safety professional.
Grade Mode: Normal Grading Mode

SFT 465 Incident Investigation and PSM **3 Credit hours**
An introductory course in traffic accident investigation designed to give insight into the recognition and collection of evidence, collecting and recording data and reconstruct- ing the accident based on the facts.
Pre-req: SFT 372 with a minimum grade of D and SFT 375 with a minimum grade of D and SFT 373 with a minimum grade of D.
Grade Mode: Normal Grading Mode

SFT 480 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

SFT 481 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

SFT 482 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

SFT 483 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

SFT 485 Independent Study **1-4 Credit hours**
Grade Mode: Normal Grading Mode

SFT 486 Independent Study **1-4 Credit hours**
Grade Mode: Normal Grading Mode

SFT 487 Independent Study **1-4 Credit hours**
Grade Mode: Normal Grading Mode

SFT 490 Safety Internship **3-12 Credit hours**
Pre-req: (CHM 212 with a minimum grade of C and CHM 218 with a minimum grade of C) and (PHY 203 with a minimum grade of C and PHY 204 with a minimum grade of C).
Attributes: Capstone Course, No Textbook Required
Grade Mode: Credit/No Credit Grade Only

SFT 491 Workshop **1-4 Credit hours**
Grade Mode: Normal Grading Mode

SFT 493 Workshop **1-4 Credit hours**
Grade Mode: Normal Grading Mode

SFT 494 Workshop **1-4 Credit hours**
Grade Mode: Normal Grading Mode

SFT 497 Occup Safety & Health Prog **3 Credit hours**
Safety functions in industry. Principles of organization and application of safety programs. Prevention, correction and control methods are outlined and evaluated.
Pre-req: SFT 235 with a minimum grade of C.
Grade Mode: Normal Grading Mode

SFT 498 Envir Safety & Health Legis **3 Credit hours**
A survey of the legislation that has affected the safety movement with special emphasis on the 1970 Occupational Safety and Health Act.
Pre-req: SFT 372 (may be taken concurrently) with a minimum grade of C and CHM 212 (may be taken concurrently) with a minimum grade of D and CHM 218 (may be taken concurrently) with a minimum grade of D.
Concurrent PR: SFT 372 and CHM 212 and CHM 218
Grade Mode: Normal Grading Mode

SFT 499 Dev & Mgt of Occup Safety Prog **3 Credit hours**
A study of safety program development, functions, organization and management.
Pre-req: SFT 372 with a minimum grade of D and CHM 212 with a minimum grade of D and CHM 218 with a minimum grade of D and (PHY 203 with a minimum grade of D or PHY 212 with a minimum grade of D) and PHY 204 with a minimum grade of D.
Grade Mode: Normal Grading Mode

Social Studies (SOS)

SOS 207 Prob Multicult Society **3 Credit hours**
An interdisciplinary analysis of the multicultural nature of global interdependence and the nature of major global problems. An interdisciplinary analysis of the multicultural nature of global interdependence and the nature of major global problems.
Grade Mode: Normal Grading Mode

SOS 404 Senior Seminar **3 Credit hours**
A captone course designed for those preparing to teach social studies in the middle school and the high school. A captone course designed for those preparing to teach social studies in the middle school and the high school.
Grade Mode: Normal Grading Mode

Social Work (SWK)

- General Education Course

SWK 203 Intro To Social Work **3 Credit hours**
Introduction to the field of social work practice. Introduction to the field of social work practice.
Attributes: Multicultural
Grade Mode: Normal Grading Mode

SWK 260 Substance Use and SWK **3 Credit hours**
This course provides information on substance use and addiction from a social work ecosystems perspective emphasizing understanding of addiction and recovery, family dynamics, assessment, and intervention.
Grade Mode: Normal Grading Mode

SWK 261 Staff Development **1-4 Credit hours**
Courses designed for staff development and training needs of social work or para social work professionals or trainees, not degree applicable. Topics will vary. CR/NC grading.
Grade Mode: Credit/No Credit Grade Only

SWK 262 Staff Development **1-4 Credit hours**
Courses designed for staff development and training needs of social work or para social work professionals or trainees, not degree applicable. Topics will vary. CR/NC grading.
Grade Mode: Credit/No Credit Grade Only

SWK 263 Staff Development **1-4 Credit hours**
Courses designed for staff development and training needs of social work or para social work professionals or trainees, not degree applicable. Topics will vary. CR/NC grading.
Grade Mode: Credit/No Credit Grade Only

SWK 280 Special Topics **1-4 Credit hours**
Selected topics not covered in regular course offerings. Selected topics not covered in regular course offerings.
Grade Mode: Normal Grading Mode

SWK 281 Special Topics **1-4 Credit hours**
Selected topics not covered in regular course offerings. Selected topics not covered in regular course offerings.
Grade Mode: Normal Grading Mode

SWK 282 Special Topics **1-4 Credit hours**
Selected topics not covered in regular course offerings. Selected topics not covered in regular course offerings.
Grade Mode: Normal Grading Mode

SWK 283 Special Topics **1-4 Credit hours**
Selected topics not covered in regular course offerings. Selected topics not covered in regular course offerings.
Grade Mode: Normal Grading Mode

SWK 307 Child Welfare **3 Credit hours**
Examination of child welfare issues, services, and interventions. Examination of child welfare issues, services, and inter- ventions.
Attributes: No Textbook Required
Grade Mode: Normal Grading Mode

SWK 310 Human Behav Soc Envir I **3 Credit hours**
Integration of biological, psychological, social and cultural aspects of the individual's growth and development from prenatal period through adolescence including the impact the social environment has on the individual. Integration of biological, psychological, social and cultural aspects of the individual's growth and development from prenatal period through adolescence including the impact the social environment has on the individual.
Pre-req: SWK 203 and (ENG 201 or ENG 102 or ENG 302 or ENG 201H) and BSC 105 and PSY 201 and SOC 200 and PSC 202 and ECN 250 and (MTH 121 or MTH 121B or MTH 122 or MTH 123 or MTH 127 or MTH 130 or MTH 130E).
Co-req: SWK 320, SWK 330, SWK 340
Grade Mode: Normal Grading Mode

SWK 312 Hum Behav Soc Envir **3 Credit hours**
Integration of biological, psychological, social and cultural aspects of the individual's growth and development from early through later adulthood including impact of social environment on the individual. Organizational theory included. Integration of biological, psychological, social and cultural aspects of the individual's growth and development from early through later adulthood including impact of social environment on the individual. Organizational theory included.
Pre-req: SWK 310 with a minimum grade of D and SWK 320 with a minimum grade of D and SWK 330 with a minimum grade of D and SWK 340 with a minimum grade of D.
Co-req: SWK 322, SWK 332, SWK 370
Attributes: Multicultural
Grade Mode: Normal Grading Mode

SWK 320 Social Work Practice I **4 Credit hours**
Pre-req: SWK 203 and (ENG 201 or ENG 102 or ENG 302 or ENG 201H) and BSC 105 and PSY 201 and SOC 200 and PSC 202 and ECN 250 and (MTH 121 or MTH 121B or MTH 122 or MTH 123 or MTH 127 or MTH 130 or MTH 130E).
Co-req: SWK 310, SWK 330, SWK 340
Attributes: Multicultural
Grade Mode: Normal Grading Mode

SWK 322 Social Work Practice II **4 Credit hours**
Pre-req: SWK 320 with a minimum grade of D and SWK 310 with a minimum grade of D and SWK 330 with a minimum grade of D and SWK 340 with a minimum grade of D.
Co-req: SWK 312, SWK 332, SWK 370
Attributes: Multicultural
Grade Mode: Normal Grading Mode

SWK 330 Soc Wel Issues in Appalachia **3 Credit hours**
The development of Social Welfare as a continuing institution. Rural poverty and other critical social issues in Appalachia.
Pre-req: SWK 203 and (ENG 201 or ENG 102 or ENG 302 or ENG 201H) and BSC 105 and PSY 201 and SOC 200 and PSC 202 and ECN 250 and (MTH 121 or MTH 121B or MTH 122 or MTH 123 or MTH 127 or MTH 130 or MTH 130E).
Grade Mode: Normal Grading Mode

SWK 332 Soc Wel Policy & Legislation **3 Credit hours**
Policy formulation, implementation and analysis. Examination and critical analysis of social welfare policies, legislation, and administration.
Pre-req: SWK 310 with a minimum grade of D and SWK 320 with a minimum grade of D and SWK 330 with a minimum grade of D and SWK 340 with a minimum grade of D.
Co-req: SWK 312, SWK 322, SWK 370
Attributes: Multicultural
Grade Mode: Normal Grading Mode

SWK 340 Social Work Research **3 Credit hours**
Introduction to Social Work Research with preparation for evaluation of generalist practice.
Pre-req: SWK 203 and (ENG 201 or ENG 102 or ENG 302 or ENG 201H) and BSC 105 and PSY 201 and SOC 200 and PSC 202 and ECN 250 and (MTH 121 or MTH 121B or MTH 122 or MTH 123 or MTH 127 or MTH 130 or MTH 130E).
Co-req: SWK 310, SWK 320, SWK 330
Grade Mode: Normal Grading Mode

SWK 370 Practicum I **3 Credit hours**
Supervised field experience in a social agency or organization for minimum of 100 clock hours. Regular conferences with instructor and weekly seminars. Supervised field experience in a social agency or organiza- tion for minimum of 100 clock hours. Regular conferences with instructor and weekly seminars.
Pre-req: SWK 310 with a minimum grade of D and SWK 320 with a minimum grade of D and SWK 330 with a minimum grade of D and SWK 340 with a minimum grade of D.
Co-req: SWK 312, SWK 322, SWK 332
Attributes: No Textbook Required
Grade Mode: Credit/No Credit Grade Only

SWK 473 Practicum II **12 Credit hours**
Supervised field experience in a social agency or organization for minimum of 400 clock hours. Regular conferences with instructor and weekly seminars. Supervised field experience in a social agency or organiza- tion for minimum of 400 clock hours. Regular conferences with instructor and weekly seminars.
Pre-req: SWK 312 and SWK 322 and SWK 332 and SWK 370.
Attributes: Multicultural
Grade Mode: Credit/No Credit Grade Only

SWK 475 Social Work Seminar **6 Credit hours**
A capstone course integrating course work and field work as preparation for beginning level of generalist Social Work practice. A capstone course integrating course work and field work as preparation for beginning level of generalist Social Work practice.
Pre-req: SWK 312 with a minimum grade of D and SWK 322 with a minimum grade of D and SWK 332 with a minimum grade of D and SWK 370 and SWK 473 (may be taken concurrently) with a minimum grade of D.
Concurrent PR: SWK 473
Attributes: Capstone Course
Grade Mode: Normal Grading Mode

SWK 480 Special Topics **1-4 Credit hours**
Study of topics of interest not covered in regularly scheduled classes. Study of topics of interest not covered in regularly sched- uled classes.
Grade Mode: Normal Grading Mode

SWK 481 Special Topics **1-4 Credit hours**
Study of topics of interest not covered in regularly scheduled classes. Study of topics of interest not covered in regularly sched- uled classes.
Grade Mode: Normal Grading Mode

SWK 482 Special Topics **1-4 Credit hours**
Study of topics of interest not covered in regularly scheduled classes. Study of topics of interest not covered in regularly sched- uled classes.
Grade Mode: Normal Grading Mode

SWK 483 Special Topics **1-4 Credit hours**
Study of topics of interest not covered in regularly scheduled classes. Study of topics of interest not covered in regularly sched- uled classes.
Grade Mode: Normal Grading Mode

SWK 485 Independent Study **1-4 Credit hours**
Individual study of topics not offered in regularly scheduled courses. Advance permission required. Individual study of topics not offered in regularly sched- uled courses. Advance permission required.
Grade Mode: Normal Grading Mode

SWK 486 Independent Study **1-4 Credit hours**
Individual study of topice not offered in regular scheduled courses. Advance permission required. Individual study of topice not offered in regular sched- uled courses. Advance permission required.
Grade Mode: Normal Grading Mode

SWK 487 Independent Study **1-4 Credit hours**
Individual study of topics not offered in regularly scheduled courses. Advance permission required. Individual study of topics not offered in regularly sched- uled courses. Advance permission required.
Grade Mode: Normal Grading Mode

SWK 488 Independent Study **1-4 Credit hours**
Individual study of topics not offered in regularly scheduled courses. Advance permission required. Individual study of topics not offered in regularly sched- uled courses. Advance permission required.
Grade Mode: Normal Grading Mode

Sociology (SOC)

- General Education Course

SOC 200 Introductory Sociology (CT) **3 Credit hours**
Introduction to the study of human society. This class emphasizes critical thinking skills. Introduction to the study of human society. This class emphasizes critical thinking skills.
Attributes: American Institutions, Critical Thinking, Multicultural, Core II Social Sciences
Grade Mode: Normal Grading Mode

SOC 200H Intro Sociology Honors (CT) **3 Credit hours**
Introduction to the study of human society for the honors student. This course emphasizes critical thinking skills.
Pre-req: Admitted Honors College with a score of 1.
Attributes: American Institutions, Critical Thinking, Honors, Multicultural, Core II Social Sciences
Grade Mode: Normal Grading Mode

SOC 280 Special Topics **1-4 Credit hours**
Selected topics not covered in regular course offerings. Selected topics not covered in regular course offerings.
Grade Mode: Normal Grading Mode

SOC 281 Special Topics **1-4 Credit hours**
Selected topics not covered in regular course offerings. Selected topics not covered in regular course offerings.
Grade Mode: Normal Grading Mode

SOC 282 Special Topics **1-4 Credit hours**
Selected topics not covered in regular course offerings. Selected topics not covered in regular course offerings.
Grade Mode: Normal Grading Mode

SOC 283 Special Topics **1-4 Credit hours**
Selected topics not covered in regular course offerings. Selected topics not covered in regular course offerings.
Grade Mode: Normal Grading Mode

SOC 300 Social Organization **3 Credit hours**
Analysis of sociological conceptual systems and theories. Analysis of sociological conceptual systems and theories.
Attributes: American Institutions
Grade Mode: Normal Grading Mode

SOC 310 Individual and Society **3 Credit hours**
Study of sociological perspectives on social interaction and the relationship between the individual and society.
Attributes: American Institutions
Grade Mode: Normal Grading Mode

SOC 311 Deviance and Social Control **3 Credit hours**
Study of the basic concepts and theories of deviant behavior and the mechanism of social control.
Attributes: American Institutions
Grade Mode: Normal Grading Mode

SOC 313 Contemp Soc Issues and Prob **3 Credit hours**
Analysis of current social issues and problems from a variety of sociological perspectives. Issues and problems will vary from semester to semester.
Pre-req: SOC 200 or SOC 200H or SOC 200E.
Attributes: American Institutions
Grade Mode: Normal Grading Mode

SOC 330 Soc of Community Health **3 Credit hours**
An investigation of those social institutions and environmental, social, and personal factors in the community to maintain health and provide support in illness as related to social theory..
Attributes: American Institutions
Grade Mode: Normal Grading Mode

SOC 342 American Society **3 Credit hours**
Sociological analysis of the basic and cultural features of contemporary American society. Sociological analysis of the basic and cultural features of contemporary American society.
Attributes: American Institutions
Grade Mode: Normal Grading Mode

SOC 344 Social Research I **3 Credit hours**
Introduction to systematic social research methodology. Introduction to systematic social research methodology.
Pre-req: SOC 200 or SOC 200H.
Grade Mode: Normal Grading Mode

SOC 345 Social Statistics I **3 Credit hours**
Introudction to statistical analysis of social data. Introudction to statistical analysis of social data.
Pre-req: SOC 200 with a minimum grade of D or SOC 200H with a minimum grade of D.
Attributes: Statistics
Grade Mode: Normal Grading Mode

SOC 360 Sociological Theory **3 Credit hours**
Introduction to the dominant theoretical perspectives in sociology examining the assumptions about human nature, society and sociology that constitute each theoretical tradition.
Pre-req: SOC 200 or SOC 200H.
Grade Mode: Normal Grading Mode

SOC 362 Health, Culture and Society **3 Credit hours**
A cross-cultural, historical, and bio-cultural examination through case-study of social and environmental factors that affect human health and disease.
Pre-req: ANT 201 or ANT 201H or SOC 200 or SOC 200H.
Attributes: Multicultural
Grade Mode: Normal Grading Mode

SOC 375 Social Stratification **3 Credit hours**
Introduction to the analysis of structured social inequality with emphasis on the dimensions of social class, race and gender.
Attributes: American Institutions
Grade Mode: Normal Grading Mode

SOC 401 Population & Human Ecology **3 Credit hours**
The course focuses on population and its relation to characteristics of environment. Specifically, it is designed to discuss the interaction of population processes and resources.
Attributes: International
Grade Mode: Normal Grading Mode

SOC 403 Social Research II **3 Credit hours**
Intermediate social research methodology with emphasis on research design. Intermediate social research methodology with emphasis on research design.
Pre-req: SOC 344.
Grade Mode: Normal Grading Mode

SOC 408 The Family **3 Credit hours**
Theoretical analysis of the family as a primary social institution. Theoretical analysis of the family as a primary social institution.
Pre-req: SOC 200 or SOC 200H.
Attributes: American Institutions
Grade Mode: Normal Grading Mode

SOC 413 Social Movements & Soc Change **3 Credit hours**
Analysis of large-scale social change, including intentional social movements and revolutions.
Attributes: American Institutions
Grade Mode: Normal Grading Mode

SOC 420 Criminology **3 Credit hours**
An overview of sociological criminology, including an examination of explanations of criminal behavior, types of criminal activity, and an analysis of the criminal justice system.
Attributes: American Institutions
Grade Mode: Normal Grading Mode

SOC 423 Social Class Power & Conflict **3 Credit hours**
Theoretical analysis of economic and political inequality and the role of social conflict in the process of large- scale social organization.
Attributes: American Institutions
Grade Mode: Normal Grading Mode

SOC 425 Race and Ethnicity **3 Credit hours**
Diverse theoretical approaches to the meaning of race and ethnicity and the character of racial/ethnic relations, with substantive focus primarily on the U.S.
Attributes: American Institutions
Grade Mode: Normal Grading Mode

SOC 430 Women in Sports **3 Credit hours**
The history of women in sport, gender equity, opportunities for women in intercollegiate and professional sports (such as participant, coach, trainer, journalist, agent, and promoter), and physiological perspectives.
Grade Mode: Normal Grading Mode

SOC 432 Sociology of Appalachia **3 Credit hours**
Study of the economics, politics, and social relations of Appalachia, including contemporary debates.
Grade Mode: Normal Grading Mode

SOC 433 Sociology of Work **3 Credit hours**
Study of the organization and structure of the work plant as a social system; the meaning and organization of work; managerial functions; management-labor relations; and human relations in industry. Study of the organization and structure of the work plant as a social system; the meaning and organization of work; mana- gerial functions; management-labor relations; and human re- lations in industry.
Attributes: American Institutions
Grade Mode: Normal Grading Mode

SOC 440 Intro to the Soc of Aging **3 Credit hours**
An introduction to the social processes and consequences of growing older for both the individual and society.
Pre-req: SOC 200 or SOC 200H.
Grade Mode: Normal Grading Mode

SOC 442 Urban Sociology **3 Credit hours**
The sociology of urban and metropolitan communities. The sociology of urban and metropolitan communities.
Attributes: American Institutions
Grade Mode: Normal Grading Mode

SOC 443 Evaluation and Survey Research **3 Credit hours**
Analysis and application of principles/methods of survey design and the theories/methods for assessing the outcomes of applied organizational programs to affect change in people and/or social conditions.
Grade Mode: Normal Grading Mode

SOC 450 Sociology of Religion **3 Credit hours**
Sociological analysis of religion as a social institution. Sociological analysis of religion as a social institution.
Attributes: American Institutions
Grade Mode: Normal Grading Mode

SOC 451 Science, Knowledge, and Tech **3 Credit hours**
Exploration of the effects of social factors on the development and authorization of knowledge claims, especially science and technology. Retirement is examined as a process, an event, and a role. Retirement is analyzed from the point of view of the in- dividual and society.
Pre-req: SOC 200.
Grade Mode: Normal Grading Mode

SOC 452 Soc of Death & Dying **3 Credit hours**
Study of death and dying as a societal and cultural phenomenon. Explores how institutions within our society deal with death. Study of death and dying as a societal and cultural phe- nomenon. Explores how institutions within our society deal with death.
Pre-req: SOC 200 with a minimum grade of D or SOC 200H with a minimum grade of D.
Grade Mode: Normal Grading Mode

SOC 455 Sociology of Sex and Gender **3 Credit hours**
Analysis of social differentiation and inequality by gender, with a focus on the contemporary U.S.
Grade Mode: Normal Grading Mode

SOC 460 Holocaust and Genocide **3 Credit hours**
An examination of the Holocaust and other genocides from an interdisciplinary social science perspective. An examination of the Holocaust and other genocides from an interdisciplinary social science perspective.
Grade Mode: Normal Grading Mode

SOC 465 Environment and Society **3 Credit hours**
A critical examination of the link between society and the environment, including ideas about nature, wilderness, and the wild causes of environmental degradation and responses to the environmental issues.
Grade Mode: Normal Grading Mode

SOC 466 Culture and Environment **3 Credit hours**
This course will examine the symbolic and structural dimensions of struggles over defining, organizing, and controlling the natural environment from a biocultural perspective.
Attributes: International
Grade Mode: Normal Grading Mode

SOC 468 National Identity **3 Credit hours**
Exploration of cultural, political and economic processes that contribute to creation and maintenance of the modern nation state as an imagined community.
Grade Mode: Normal Grading Mode

SOC 470 Field Exper in Applied SOC **3-6 Credit hours**
Supervised fieldwork in public or private agencies affording students an opportunity to apply sociological knowledge and skills in addressing practical problems.
Grade Mode: Normal Grading Mode

SOC 480 Special Topics **1-4 Credit hours**
Study of topics of interest not covered in regularly scheduled courses. Study of topics of interest not covered in regularly scheduled courses.
Grade Mode: Normal Grading Mode

SOC 481 Special Topics **1-4 Credit hours**
Study of topics of interest not covered in regularly scheduled courses. Study of topics of interest not covered in regularly scheduled courses.
Grade Mode: Normal Grading Mode

SOC 482 Special Topics **1-4 Credit hours**
Study of topics of interest not covered in regulary scheduled courses. Study of topics of interest not covered in regulary scheduled courses.
Grade Mode: Normal Grading Mode

SOC 483 Special Topics **1-4 Credit hours**
Study of topics of interest not covered in regularly scheduled courses. Study of topics of interest not covered in regularly scheduled courses.
Grade Mode: Normal Grading Mode

SOC 485 Independent Study **1-4 Credit hours**
Individual study of topics not offered in regularly scheduled courses. Advance permission required. Individual study of topics not offered in regularly scheduled courses. Advance permission required.
Grade Mode: Normal Grading Mode

SOC 486 Independent Study **1-4 Credit hours**
Individual study of topics not offered in regularly scheduled courses. Advance permission required. Individual study of topics not offered in regularly scheduled courses. Advance permission required.
Grade Mode: Normal Grading Mode

SOC 487 Independent Study **1-4 Credit hours**
Individual study of topics not offered in regularly scheduled courses. Advance permission required. Individual study of topics not offered in regularly scheduled courses. Advance permission required.
Grade Mode: Normal Grading Mode

SOC 488 Independent Study **1-4 Credit hours**
Individual study of topics not offered in regularly scheduled courses. Advance permission required. Individual study of topics not offered in regularly scheduled courses. Advance permission required.
Grade Mode: Normal Grading Mode

SOC 489 Internship **1-4 Credit hours**
Supervised practicum founded on sociological knowledge in a host institution. 40-45 hours of internship work correspond with 1 credit hour. Supervised practicum founded on sociological knowledge in a host institution. 40-45 hours of internship work correspond with 1 credit hour.
Grade Mode: Normal Grading Mode

SOC 492 Senior Seminar I **3 Credit hours**
Application of sociological theory and practice to individually designed projects. This course fulfills the capstone requirement for undergraduate majors. (PR: sociology major in senior standing or departmental permission)
Grade Mode: Normal Grading Mode

SOC 493 Senior Seminar II **3 Credit hours**
Application of sociological theory and practice to individually designed projects. Fulfills the capstone requirement for undergraduate majors. (PR: Anthrolpology major in senior standing or departmental permission)
Attributes: Capstone Course
Grade Mode: Normal Grading Mode

Spanish (SPN)

- General Education Course

SPN 101 Introductory Spanish **3 Credit hours**
Pronunciation, vocabulary and basic language structures. For students with no foreign language experience. Pronunciation, vocabulary and basic language structures. For students with no foreign language experience.
Grade Mode: Normal Grading Mode

SPN 102 Introductory Spanish II **3 Credit hours**
Pronunciation, vocabulary and basic language structures. For students with no foreign language experience. Pronunciation, vocabulary and basic language structures. For students with no foreign language experience.
Pre-req: SPN 101 with a minimum grade of C.
Grade Mode: Normal Grading Mode

SPN 112 Elementary Spanish **3 Credit hours**
Emphasis on oral communication and listening comprehension, some reading and writing. For students who have had two years or more of high school Spanish. Emphasis on oral communication and listening comprehension, some reading and writing. For students who have had two years or more of high school Spanish.
Grade Mode: Normal Grading Mode

SPN 203 Intermediate Spanish III **3 Credit hours**
Emphasis on oral and written communication. Conversation and composition. Intermediate language structures. Emphasis on oral and written communication. Conversation and composition. Intermediate language structures.
Pre-req: SPN 102 with a minimum grade of C or SPN 112 with a minimum grade of C.
Grade Mode: Normal Grading Mode

SPN 204 Intermediate Spanish IV **3 Credit hours**
Development of practical conversational skills, reading for comprehension, and diredted compositions. Development of practical conversational skills, reading for comprehension, and diredted compositions.
Pre-req: SPN 203 with a minimum grade of C.
Attributes: Foreign Language
Grade Mode: Normal Grading Mode

SPN 240 Hispanic Culture (CT) **3 Credit hours**
Taught in English, this course examines Hispanic cultures through literature and cinema.
Attributes: Critical Thinking, Core II Humanities, International
Grade Mode: Normal Grading Mode

SPN 245 Chicano/a Identities (CT) **3 Credit hours**
Taught in English, this course examines the Chicano Movement as a civil rights movement, as well as cultural and artisitic movement.
Attributes: Critical Thinking, Core II Humanities
Grade Mode: Normal Grading Mode

SPN 280 Special Topics **1-4 Credit hours**
Pre-req: SPN 204.
Grade Mode: Normal Grading Mode

SPN 281 Special Topics **1-4 Credit hours**
Pre-req: SPN 204.
Grade Mode: Normal Grading Mode

SPN 282 Special Topics **1-4 Credit hours**
Pre-req: SPN 204.
Grade Mode: Normal Grading Mode

SPN 283 Special Topics **1-4 Credit hours**
Pre-req: SPN 204.
Grade Mode: Normal Grading Mode

SPN 305 Intro to SPN Conversation I **3 Credit hours**
Speaking intensive course designed to develop conversational skills and to review fundamentals acquired in SPN 101-204 sequence. Course taught in Spanish. (PR: SPN 204).
Pre-req: SPN 204 with a minimum grade of D.
Grade Mode: Normal Grading Mode

SPN 306 Intro To SPN Conversation II **3 Credit hours**
Speaking intensive course designed to develop conversational skills and to review fundamentals acquired in SPN 101-204 sequence. Course taught in Spanish. (PR: SPN 204).
Pre-req: SPN 204.
Grade Mode: Normal Grading Mode

SPN 307 Spanish for Law Enforcement **3 Credit hours**
Course designed to help Law Enforcement students develop language skills and acquire a specialized vocabulary which will enable them to interact professionally with the Hispanic Community. (PR: SPN 204) Course designed to help Law Enforcement students develop language skills and acquire a specialized vocabulary which will enable them to interact professionally with the Hispanic Community. (PR: SPN 204)
Pre-req: SPN 204.
Grade Mode: Normal Grading Mode

SPN 315 Intro to Composition I **3 Credit hours**
A review of Spanish grammar with an emphasis on written compositions. Course taught in Spanish. (PR: SPN 305/306 or permission).
Pre-req: SPN 204.
Grade Mode: Normal Grading Mode

SPN 316 Intro to Composition II **3 Credit hours**
A review of Spanish grammar with an emphasis on written compositions. Course taught in Spanish. (PR: SPN 305/306 or permission).
Pre-req: SPN 204.
Grade Mode: Normal Grading Mode

SPN 323 Adv Grammar and Oral Comm **3 Credit hours**
Analysis of grammatical structures. Introduction to phonetics and applied linguistics and oral practice in various discourse types such as conversation, narration, discussion/debate, presentation, course conducted mainly in Spanish. Analysis of grammatical structures. Introduction to phonetics and applied linguistics and oral practice in various discourse types such as conversation, narration, discussion/debate, presentation, course conducted mainly in Spanish.
Pre-req: SPN 204.
Grade Mode: Normal Grading Mode

SPN 324 Adv Gram & Oral Com II **3 Credit hours**
Analysis of grammatical structures. Introduction to phonetics and applied linguistics and oral practice in various discourse types such as conversation, narration, discussion/debate, presentation. Course conducted mainly in Spanish. Analysis of grammatical structures. Introduction to phonetics and applied linguistics and oral practice in various discourse types such as conversation, narration, discussion/debate, presentation. Course conducted mainly in Spanish.
Pre-req: SPN 204.
Grade Mode: Normal Grading Mode

SPN 325 Commercial Spanish **3 Credit hours**
A study of Spanish used in international business and commerce, emphasizing specialized vocabulary, forms and procedures in commercial communication, and of the Hispanic business world through its language and culture.
Pre-req: SPN 204.
Grade Mode: Normal Grading Mode

SPN 335 Latin Am Culture & Civiliza **3 Credit hours**
A study of the civilization of the Latin American countries and their contributions to world culture. Course conducted in Spanish. A study of the civilization of the Latin American countries and their contributions to world culture. Course conducted in Spanish.
Pre-req: SPN 204.
Attributes: Multicultural
Grade Mode: Normal Grading Mode

SPN 336 Spain: Culture & Civilization **3 Credit hours**
A study of the civilization of Spain and its contribution to world culture. Course conducted in Spanish. A study of the civilization of Spain and its contribution to world culture. Course conducted in Spanish.
Pre-req: SPN 204 with a minimum grade of D.
Attributes: Multicultural
Grade Mode: Normal Grading Mode

SPN 345 Ecocriticism in Latin America **3 Credit hours**
Taught in English, this course explores approaches to the ecological crisis in Latin America through a variety of texts including poetry, journalistic non-fiction, historical interpretation, and film.
Grade Mode: Normal Grading Mode

SPN 408 Latin American Women **3 Credit hours**
Taught in English, this course examines the interplay of cultural, ideological, and structural factors affecting women's lives in Latin America.
Pre-req: ENG 201 or ENG 102 or ENG 201H.
Grade Mode: Normal Grading Mode

SPN 411 Pre-Modern Latin Am Lit **3 Credit hours**
A study of representative Latin American literary works from Pre-Colonial and Colonial periods and the 19th century. Course taught in Spanish. (PR: SPN 315/316 or SPN 323/324 or permission.)
Pre-req: SPN 315 or SPN 316 or SPN 323 or SPN 324.
Attributes: International, Literature
Grade Mode: Normal Grading Mode

SPN 412 Contemporary Lat Am Lit **3 Credit hours**
A study of a selection of Latin American authors and works representative of the major literary movements in Latin America, from Modernism to present. Course taught in Spanish. (PR: SPN 315/316 or SPN 323/324 or permission)
Pre-req: SPN 323 or SPN 324 or SPN 315 or SPN 316.
Attributes: Literature
Grade Mode: Normal Grading Mode

SPN 413 Lit Genres & Issues in LA **3 Credit hours**
Study of poetry, fiction, drama, essays etc. in Latin America. At the discretion of the instuctor, literary genres will be crossed with approaches such as gender, race, religion, ethnicity, etc. Course taught in Spanish. (PR: SPN 315/316 or SPN 323/324 or permission).
Pre-req: SPN 315 or SPN 316 or SPN 323 or SPN 324.
Attributes: Literature
Grade Mode: Normal Grading Mode

SPN 414 Med, Ren & Gld Cnt Spn Lit **3 Credit hours**
Study of the representative Spanish authors and literary works and the major intellectual movements in peninsular literature from Medieval times to Spain's Golden Century. Course taught in Spanish. (PR: SPN 315/315 or SPN 323/324 or permission).
Pre-req: (SPN 315 with a minimum grade of D or SPN 316 with a minimum grade of D) or (SPN 323 with a minimum grade of D or SPN 324 with a minimum grade of D).
Attributes: Literature
Grade Mode: Normal Grading Mode

SPN 415 Spanish Lit: 18th & 19th Cent **3 Credit hours**
Study of the representative Spanish authors and the major intellectual movements in peninsular literature during the 18th and 19th centuries. Course taught in Spanish. (PR: SPN 315/316 or SPN 323/324 or permission).
Pre-req: SPN 315 or SPN 316 or SPN 323 or SPN 324.
Attributes: Literature
Grade Mode: Normal Grading Mode

SPN 416 Contemporary Spanish Lit **3 Credit hours**
Study of the representative Spanish authors and literary works and the major intellectual movements in peninsular literature from the Generation of 1898 to the present. Course taught in Spanish. (PR: SPN 315/316 or SPN 323/324 or permission).
Pre-req: SPN 315 or SPN 316 or SPN 323 or SPN 324.
Attributes: Literature
Grade Mode: Normal Grading Mode

SPN 417 Spanish Film **3 Credit hours**
Course on selected films by Spanish and Spanish-American directors and on films based on literature, with an emphasis on Spain. Reviews by contemporary film critics. Film and literary theory. (PR: SPN 204).
Pre-req: SPN 204.
Attributes: Literature
Grade Mode: Normal Grading Mode

SPN 418 Latin American Film **3 Credit hours**
Course on selected films by Spanish and Spanish-American directors and on films based on literature, with an emphasis on Latin and South America. Reviews by contemporary film critics.
Pre-req: SPN 204.
Attributes: Literature
Grade Mode: Normal Grading Mode

SPN 419 Against Oppression SPN LA Film **3 Credit hours**
Thematic study of films from Spain and Latin America that concern religious, sexual and sociopolitical oppression, violence and transgressions. Taught in English.
Pre-req: ENG 101 or ENG 101B or ENG 101P or ENG 160.
Grade Mode: Normal Grading Mode

SPN 420 Afro-Latin America **3 Credit hours**
Study of various modes of Afro-Latin cultural production, including literature, film, music and other Fine Arts with emphasis on the 20th and 21st centuries. Taught in English.
Pre-req: ENG 201 or ENG 102.
Attributes: International
Grade Mode: Normal Grading Mode

SPN 433 Int Adv Spn Gram **3 Credit hours**
This course will review and expand specific, advanced Spanish language structural points. it will include daily intensive practive in the four linguistic skills. Course taught in Spanish.
Pre-req: (SPN 315 or SPN 316) and (SPN 323 or SPN 324).
Grade Mode: Normal Grading Mode

SPN 435 Contemporary Latin Am Culture **3 Credit hours**
Course based on the origins of issues confronting contemporary Spain: the war and its aftermath, the transition to democracy and modernization, the European Union, terrorism, regional autonomy, feminism, and sexual identity.
Pre-req: SPN 315 or SPN 316 or SPN 323 or SPN 324.
Attributes: International
Grade Mode: Normal Grading Mode

SPN 436 Cult & Soc in Cont Spn **3 Credit hours**
Course based on origins of issues confronting contemporary Spain: the war's aftermath, transition to democracy and modernization, the European Union, terrorism, regional autonomy, feminism, sexual identity. Course taught in Spanish.
Pre-req: (SPN 315 or SPN 316) or (SPN 323 or SPN 324).
Attributes: Multicultural
Grade Mode: Normal Grading Mode

SPN 480 Special Topics **1-4 Credit hours**
Independent research for qualified students who are interested beyond the other courses in the catalog. Independent research for qualified students who are interested beyond the other courses in the catalog.
Pre-req: SPN 204.
Grade Mode: Normal Grading Mode

SPN 481 Special Topics **1-4 Credit hours**
Independent research for qualified students who are interested beyond the other courses in the catalog. Independent research for qualified students who are interested beyond the other courses in the catalog.
Pre-req: SPN 204.
Grade Mode: Normal Grading Mode

SPN 482 Special Topics **1-4 Credit hours**
Independent research for qualified students who are interested beyond the other courses in the catalog. Independent research for qualified students who are interested beyond the other courses in the catalog.
Pre-req: SPN 204.
Grade Mode: Normal Grading Mode

SPN 483 Special Topics **1-4 Credit hours**
Independent research for qualified students who are interested beyond the other courses in the catalog. Independent research for qualified students who are interested beyond the other courses in the catalog.
Pre-req: SPN 204.
Grade Mode: Normal Grading Mode

SPN 485 Independent Study **1-4 Credit hours**
Pre-req: SPN 204.
Grade Mode: Normal Grading Mode

SPN 486 Independent Study **1-4 Credit hours**
Pre-req: SPN 204.
Grade Mode: Normal Grading Mode

SPN 487 Independent Study **1-4 Credit hours**
Pre-req: SPN 204.
Grade Mode: Normal Grading Mode

SPN 488 Independent Study **1-4 Credit hours**
Pre-req: SPN 204.
Grade Mode: Normal Grading Mode

SPN 490 Spanish Capstone Experience **3 Credit hours**
Students develop skills to conduct research on a topic from their area of concentration and to present a research project in Spanish. (PR: two 400-level SPN courses or permission).
Attributes: Capstone Course
Grade Mode: Normal Grading Mode

Sport Tourism Hospitality Mgt (STHM)

- General Education Course

STHM 218 Sports in Society (CT) **3 Credit hours**
A study of the possible interrelationship between physical activity and various sociocultural factors.
Attributes: Critical Thinking, Multicultural
Grade Mode: Normal Grading Mode

STHM 250 Intro to Sport Management **3 Credit hours**
The student will gain knowledge in sport management with multiple emphasis including professional, collegiate, and recreational sports.
Grade Mode: Normal Grading Mode

STHM 270 Sport Tourism **3 Credit hours**
This course introduces students to the nature, structure, and complexity of the sport tourism industry. Topics covered include: economic, sociocultural and environmental impacts, motivations, marketing, and development principles.
Grade Mode: Normal Grading Mode

STHM 290 Sport Management Practicum **3 Credit hours**
Supervised experience with classroom setting that emphasizes a variety of skills and exploration of career opportunities in Sport Management (CR: Admission to Sport Management Program).
Pre-req: STHM 250 with a minimum grade of C or ESS 250 with a minimum grade of C.
Grade Mode: Normal Grading Mode

STHM 320 Sports & Campus Rec Mgmt **3 Credit hours**
This course will deal with the fields of recreational sports and campus recreation management. It will present the foundations of both fields, the development, implementation and trends in today's programs.
Grade Mode: Normal Grading Mode

STHM 380 Sport Marketing **3 Credit hours**
A study of the application of marketing concepts to the sport industry (PR: MKT 340)
Grade Mode: Normal Grading Mode

STHM 381 Financing Sports **3 Credit hours**
This course focuses on how sports managers find and manage funding sources for the sports industry through ticket and merchandise sales, venues and sports properties, and fundraising, etc.
Grade Mode: Normal Grading Mode

STHM 390 Sport MGT Pre-Internship **3 Credit hours**
A classroom setting with additional required clinical hours in the sport and leisure industry setting emphasizing a variety of work experiences and internship application skills in Sport Management. (PR: STHM 290 with minimum B and minimum 2.2 GPA)
Pre-req: STHM 290 with a minimum grade of B or ESS 290 with a minimum grade of B.
Grade Mode: Normal Grading Mode

STHM 401 Ethics in Sport **3 Credit hours**
Philosophical of and historical background to the development of values in contemporary society and examination of how these are manifested in the sports world.
Grade Mode: Normal Grading Mode

STHM 405 Sport Psychology **3 Credit hours**
An examination of theory, research, and application of psychological principles related to sport and exercise.
Pre-req: PSY 201 with a minimum grade of D.
Grade Mode: Normal Grading Mode

STHM 410 Leadership: Theory & Practice **3 Credit hours**
This course provides students with the comprehensive application of leadership theories and practice in the sport, tourism and hospitality management field.
Grade Mode: Normal Grading Mode

STHM 416 Facility Design & Management **3 Credit hours**
This course covers quantity, location, and design standards for facilitates. Includes safety, functionality, durability, and maintenance requirements in planning and design. (PR: Junior or Senior Standing)
Grade Mode: Normal Grading Mode

STHM 425 Sport in Film **3 Credit hours**
The relationship between sport and feature motion pictures are analyzed in the historical, social and cultural contexts. (PR: Junior or senior standing)
Grade Mode: Normal Grading Mode

STHM 430 Sport Law **3 Credit hours**
Study of the basic principles of the legal system as they operate in the environment of American sport. (PR: Junior or senior standing)
Grade Mode: Normal Grading Mode

STHM 440 Women in Sport **3 Credit hours**
The history of women in sport, gender equity, the opportunities for women and intercollegiate and professional sports (such as participant, coach, trainer, journalist, agent and promoter), and physiological perspectives.
Grade Mode: Normal Grading Mode

STHM 450 Sport Agent **3 Credit hours**
This course focuses on the understanding of sport agent industry and structure.
Pre-req: STHM 250 with a minimum grade of D.
Grade Mode: Normal Grading Mode

STHM 452 Sport Analytics **3 Credit hours**
By using various tools such as sport analytics, key performance indicators (KPI), balanced scorecard, and other techniques, this course focuses on exploring, identifying and solving problems using data (PR: minimum B grade in MGT 218, JR or SR standing)
Pre-req: MGT 218 with a minimum grade of B.
Grade Mode: Normal Grading Mode

STHM 458 Sales & Promotion MGT in Sport **3 Credit hours**
A study of sales and promotion management in sport and leisure industry.
Pre-req: (STHM 380 with a minimum grade of D or ESS 380 with a minimum grade of D).
Grade Mode: Normal Grading Mode

STHM 475 Capstone Seminar **3 Credit hours**
Application of all aspects involved in the Sport, Tourism and Hospitality Management to individually designed projects. Fulfills the capstone requirement for undergraduate majors (PR: SR standing in Sport Management)
Attributes: Capstone Course
Grade Mode: Normal Grading Mode

STHM 480 Special Topics **1-4 Credit hours**
Special Topics
Grade Mode: Normal Grading Mode

STHM 481 Special Topics **1-4 Credit hours**
Special Topics
Grade Mode: Normal Grading Mode

STHM 482 Special Topics **1-4 Credit hours**
Special Topics
Grade Mode: Normal Grading Mode

STHM 483 Special Topics **1-4 Credit hours**
Special Topics
Grade Mode: Normal Grading Mode

STHM 485 Independent Study **1-4 Credit hours**
Independent Study
Grade Mode: Normal Grading Mode

STHM 486 Independent Study **1-4 Credit hours**
Independent Study
Grade Mode: Normal Grading Mode

STHM 487 Independent Study **1-4 Credit hours**
Independent Study
Grade Mode: Normal Grading Mode

STHM 488 Independent Study **1-4 Credit hours**
Independent Study
Grade Mode: Normal Grading Mode

STHM 490 Internship **3-8 Credit hours**
Internship experience in a Sports, Tourism and Hospitality agencies. (PR: STHM 290, 390 with minimum B; minimum 2.2 GPA and Senior standing)
Pre-req: (STHM 290 with a minimum grade of B or ESS 290 with a minimum grade of B) and (STHM 390 with a minimum grade of B or ESS 390 with a minimum grade of B).
Grade Mode: Normal Grading Mode

STHM 496 Olympic Games **3 Credit hours**
Exploring the important role of the Olympic Movement in politics since the modern Olympic Movement in 1896. (PR: JR and SR standing)
Attributes: International
Grade Mode: Normal Grading Mode

Statistics (STA)

- General Education Course

STA 150 Foundations of Statistics **3 Credit hours**
A critical thinking course on the basic foundation of Statistics for non-majors, allowing them to better prepare, develop and harness discipline-specific skills.
Pre-req: (ACT Math with a score of 17 or SAT MATH SECTION SCORE with a score of 460 or SAT Mathematics Before Mar. 16 with a score of 400 or Placement Math SP20 with a score of 237) and STA 150L (may be taken concurrently) with a minimum grade of D.
Concurrent PR: STA 150L
Attributes: Core II Mathematics, Statistics
Grade Mode: Normal Grading Mode

STA 150B Foundations of Stats-Expanded **4 Credit hours**
A critical thinking course on the basic foundation of Statistics for non-majors with algebra review, allowing them to better prepare, develop and harness discipline-specific skills.
Pre-req: STA 150L (may be taken concurrently) with a minimum grade of D.
Concurrent PR: STA 150L
Attributes: Core II Mathematics, Statistics
Grade Mode: Normal Grading Mode

STA 150L Foundations of Statistics Lab **1 Credit hour**
A lab to provide training in using the SPSS software in Foundations of Statistics for non-majors.
Pre-req: STA 150 (may be taken concurrently) with a minimum grade of D or STA 150B (may be taken concurrently) with a minimum grade of D.
Concurrent PR: STA 150 or STA 150B
Attributes: Core II Mathematics, Statistics
Grade Mode: Normal Grading Mode

STA 225 Introductory Statistics (CT) **3 Credit hours**
A critical thinking course in applied statistical reasoning covering basic probability, descriptive statistics and fundamental statistical inference procedures. Parameter estimation and hypothesis testing for variety of situations with wide applications.
Pre-req: ACT Math with a score of 21 or SAT Mathematics Before Mar. 16 with a score of 500 or SAT MATH SECTION SCORE with a score of 530 or Placement Math After SP17 with a score of 102 or MTH 121 with a minimum grade of C or MTH 123 with a minimum grade of C or MTH 127 with a minimum grade of C or MTH 130E with a minimum grade of C or MTH 122 with a minimum grade of C or MTH 130 with a minimum grade of C or MTH 121B with a minimum grade of C.
Attributes: Critical Thinking, Core II Mathematics, Statistics
Grade Mode: Normal Grading Mode

STA 326 Applied Statistical Methods **3 Credit hours**
Use of statistical packages; introduction to descriptive, probability and sampling distributions; forecasting, inferences concerning one and two samples; simple and multiple regression, analysis of variance and covariance.
Pre-req: STA 225 with a minimum grade of C or MTH 229 with a minimum grade of C or STA 150 with a minimum grade of C or STA 150B with a minimum grade of C.
Attributes: Statistics
Grade Mode: Normal Grading Mode

STA 345 Applied Prob and Stat **3 Credit hours**
Statistical methods in scientific/engineering research, with emphasis on applications. Probability modeling, experimental design/survey sampling, estimation/hypothesis testing procedures, regression, ANOVA/factor analysis. Implementation using statistical software such as Excel/SAS.
Pre-req: MTH 229 with a minimum grade of C or MTH 229H with a minimum grade of C.
Attributes: Statistics
Grade Mode: Normal Grading Mode

STA 412 Regression Analysis **3 Credit hours**
Determining regression models; deriving parameter estimates using calculus; detailed coverage of tests of assumptions and remedial procedures (transformations and weithted least-squares); multiple and polynomial regression; tests and corrections for autocorrelation.
Pre-req: STA 445 with a minimum grade of C or MTH 445 with a minimum grade of C.
Attributes: Statistics
Grade Mode: Normal Grading Mode

STA 413 Experimental Designs **3 Credit hours**
Analysis of variance an covariance models with derivations using calculus; detailed testing of model assumptions and remedial measures (as transformations) to yield adequate models; use of various statistical designs.
Pre-req: STA 445 with a minimum grade of C.
Attributes: Statistics
Grade Mode: Normal Grading Mode

STA 420 Nonparametric Statistics **3 Credit hours**
Coverage of a variety of nonparametric or distribution-free methods for practical statistical inference problems in hypothesis testing and estimation, including rank procedures and randomization procedures.
Pre-req: STA 445 with a minimum grade of C.
Attributes: Statistics
Grade Mode: Normal Grading Mode

STA 422 Time Series Forecasting **3 Credit hours**
Finding statistical models to represent various time dependent phenomena and processes; coverage of a variety of forecasting techniques, with an emphasis on adaptive, regression, and Box-Jenkins procedures.
Pre-req: STA 445 with a minimum grade of C.
Attributes: Statistics
Grade Mode: Normal Grading Mode

STA 425 Sampling Designs & Estimation **3 Credit hours**
Coverage of the theory and applications of a variety of sampling designs; sample size determination; ratio and regression estimates; comparisions among the designs.
Pre-req: STA 445 with a minimum grade of C.
Attributes: Statistics
Grade Mode: Normal Grading Mode

STA 435 Statistical Data Mining **3 Credit hours**
Introduction to statistical learning techniques for analyzing high dimensional data. Topics include data mining strategy, explanatory analysis, predictive modeling techniques and model assessment.
Pre-req: STA 345 with a minimum grade of C or STA 445 with a minimum grade of C.
Attributes: Statistics
Grade Mode: Normal Grading Mode

STA 445 Probability & Statistics I **3 Credit hours**
Probability spaces, conditional probability, and applications. Random variables, distributions, expectation, and moments.
Pre-req: MTH 230 with a minimum grade of C and MTH 231 (may be taken concurrently) with a minimum grade of C.
Concurrent PR: MTH 231
Attributes: Statistics
Grade Mode: Normal Grading Mode

STA 446 Probability & Statistics II **3 Credit hours**
Statistical inference: estimation of parameters, tests of hypotheses. Regression, analysis of variance.
Pre-req: STA 445 with a minimum grade of C.
Attributes: Statistics
Grade Mode: Normal Grading Mode

STA 464 Statistical Computing **3 Credit hours**
Introduction to the commonly used statistical computing techniques, procedures and methods, with extensive use of R language and environment, and SAS for statistical computing and graphics.
Pre-req: STA 445 with a minimum grade of C.
Attributes: Statistics
Grade Mode: Normal Grading Mode

STA 466 Stochastic Processes **3 Credit hours**
Review of probability theory. Topics include stationary processes, discrete and continuous time Markov chains, Markovian queuing systems, random walks, renewal processes, Brownian motion and Markov Chain Monte Carlo.
Pre-req: STA 445 with a minimum grade of C.
Attributes: Statistics
Grade Mode: Normal Grading Mode

STA 470 Applied Survival Analysis **3 Credit hours**
Survival and hazard functions, parametric and non-parametric methods, models and inferences for survival data, and regression diagnosis.
Pre-req: STA 445 with a minimum grade of C.
Attributes: Statistics
Grade Mode: Normal Grading Mode

STA 480 Special Topics **1-4 Credit hours**
Courses on special topics in statistics not listed among the current offerings.
Attributes: Statistics
Grade Mode: Normal Grading Mode

STA 485 Independent Study **1-4 Credit hours**
A faculty, supervised, indvidualized course of study of a topic in statistics.
Attributes: Statistics
Grade Mode: Normal Grading Mode

Studies Abroad (SA)

SA 101 Studies Abroad **1-15 Credit hours**
Grade Mode: Normal Grading Mode

SA 301 Studies Abroad - Preregistra **15 Credit hours**
Grade Mode: Credit/No Credit Grade Only

Theatre (THE)

- General Education Course

THE 101 Introduction to Theatre **3 Credit hours**
Fundamentals of theatre arts. Fundamentals of theatre arts.
Grade Mode: Normal Grading Mode

THE 111 Introduction to Acting **3 Credit hours**
Explore acting technique through theatre games, exercises, and improvisation. Good vocal skills and effective movement are emphasized. For non majors with little or no training in the acting discipline. Explore acting technique through theatre games, exercises, and improvisation. Good vocal skills and effective movement are emphasized. For non majors with little or no training in the acting discipline.
Grade Mode: Normal Grading Mode

THE 112 Theatre Appreciation **3 Credit hours**
Development of an appreciation and an understanding of theatre as a fine art. For non-theatre majors.
Attributes: Core II Fine Arts
Grade Mode: Normal Grading Mode

THE 112H Theatre Appreciation Honors **3 Credit hours**
Development of an appreciation and an understanding of theatre as a fine art. For honors non-theatre majors.
Pre-req: Admitted Honors College with a score of 1.
Attributes: Core II Fine Arts, Honors
Grade Mode: Normal Grading Mode

THE 201 Crit Analysis Theatre Lit **3 Credit hours**
Critical analysis of theatre texts with emphasis on the successful translation of theatre literature from page to stage. Coursework supports the development and communication of production ideas and aesthetic interpretation. Critical analysis of theatre texts with emphasis on the successful translation of theatre literature from page to stage. Coursework supports the development and communication of production ideas and aesthetic interpretation.
Pre-req: THE 101.
Grade Mode: Normal Grading Mode

THE 220 Stage Movement I: Foundations **3 Credit hours**
Exercises for flexibility, control, body-awareness and alignment. Exercises for flexibility, control, body-awareness and alignment.
Grade Mode: Normal Grading Mode

THE 221 Stage Voice I: Foundations **3 Credit hours**
Vocal techniques for the actor, including the study of dialects. Vocal techniques for the actor, including the study of dialects.
Grade Mode: Normal Grading Mode

THE 222 Acting I: Foundations **3 Credit hours**
Development of skill through foundational exercises. (PR: THE 220 and 221 or permission of instructor.) Development of skill through foundational exercises. (PR: THE 220 and 221 or permission of instructor.)
Pre-req: THE 220 and THE 221.
Grade Mode: Normal Grading Mode

THE 230 Auditioning Techniques **3 Credit hours**
Techniques of auditioning for stage plays and musicals. Techniques of auditioning for stage plays and musicals.
Pre-req: THE 222 with a minimum grade of D.
Grade Mode: Normal Grading Mode

THE 240 Stage Lighting I **4 Credit hours**
Students enrolled in this course learn the terminology, techniques, and principles required to execute lighting designs for theatre, dance and film through "hands-on" experiences and projects.
Grade Mode: Normal Grading Mode

THE 245 Intro to Technical Theatre **4 Credit hours**
Technical production, scenic construction and stage operations are explored including critical application of traditional and current computer technologies within the profession. Lecture and supervised laboratory application links theory with practice.
Grade Mode: Normal Grading Mode

THE 250 Introduction to Costuming **4 Credit hours**
This introductory course exposes students to the elementary principles, techniques, terminology, materials and application used to realize theatrical costumes. A combination of lecture and laboratory instruction links theory with practice. This introductory course exposes students to the elementary principles, techniques, terminology, materials and application used to realize theatrical costumes. A combination of lecture and laboratory instruction links theory with practice.
Grade Mode: Normal Grading Mode

THE 270 Theatre Practicum **1 Credit hour**
Acting, directing, or technical work in Marshall University Theatre productions. Register only with permission of instructor. Open to all students. May be repeated for a total of four hours. Acting, directing, or technical work in Marshall University Theatre productions. Register only with permission of instructor. Open to all students. May be repeated for a total of four hours.
Grade Mode: Normal Grading Mode

THE 280 Special Topics **1-4 Credit hours**
Program of study not normally covered in other courses. Topics vary from semester to semester. Program of study not normally covered in other courses. Topics vary from semester to semester.
Grade Mode: Normal Grading Mode

THE 290 Music Theatre Workshop I **3 Credit hours**
Applied skills in musical theatre for chorus and ensemble roles, including song presentation and integration of musical and dramatic elements. Intended for beginning and intermediate students. Applied skills in musical theatre for chorus and ensemble roles, including song presentation and integration of musical and dramatic elements. Intended for beginning and intermediate students.
Pre-req: THE 101 with a minimum grade of D or THE 111 with a minimum grade of D or THE 112 with a minimum grade of D.
Grade Mode: Normal Grading Mode

THE 295 Sophomore Review **0 Credit hours**
Sophomore Review. 0 hrs. This course is a series of interviews, auditions and assessment instruments designed to determine a student's potential to successfully continue and complete the theatre degree curriculum.
Pre-req: THE 101 with a minimum grade of D and THE 245 with a minimum grade of D and THE 250 with a minimum grade of D.
Grade Mode: Credit/No Credit Grade Only

THE 310 Theatre Management **3 Credit hours**
Theories and practices in performing arts management. An exploration of fiscal and physical management techniques, including budgeting, box office procedures, promotion, and staffing. Theories and practices in performing arts management. An exploration of fiscal and physical management techniques, including budgeting, box office procedures, promotion, and staffing.
Grade Mode: Normal Grading Mode

THE 320 Acting II: Scene Study **3 Credit hours**
Development of skill through exercises and analytical study of scenes. (PR: THE 222 and successful completion of Sophomore Review or permission of instructor.) Development of skill through exercises and analytical study of scenes. (PR: THE 222 and successful completion of Sophomore Review or permission of instructor.)
Pre-req: THE 222.
Grade Mode: Normal Grading Mode

THE 322 Stage Voice II: Dialects **3 Credit hours**
Study and practice of dialects and accents that are commonly used in acting plays. Study and practice of dialects and accents that are commonly used in acting plays.
Pre-req: THE 221.
Grade Mode: Normal Grading Mode

THE 323 Stage Mvmt II: Phys Approaches **3 Credit hours**
Advanced exploration of movement and its application to character development and text. (PR: THE 222 and successful completion of Sophomore Review or permission of instructor.) Advanced exploration of movement and its application to character development and text. (PR: THE 222 and successful completion of Sophomore Review or permission of instructor.)
Pre-req: THE 222.
Grade Mode: Normal Grading Mode

THE 325 Theatre Career Marketing **3 Credit hours**
Examination of strategic marketing and personal branding techniques for designing, enhancing, and promoting a professional image for the theatre artist.
Pre-req: THE 245 with a minimum grade of D.
Grade Mode: Normal Grading Mode

THE 330 Drafting & Rendering **3 Credit hours**
The application of drafting and rendering conventions utilized in the planning and execution of theatrical productions. Mechanical drawing, computer assisted drawing, freehand sketching and color application techniques will be employed.
Pre-req: THE 245.
Grade Mode: Normal Grading Mode

THE 340 Stage Decor **3 Credit hours**
Identification of artistic, historical , social, philosophical and technical influences that diverse cultures offer theatrical designers. Research, critical examination, drawing, digital documentation culminate in the creation of industry standard electronic portfolios.
Grade Mode: Normal Grading Mode

THE 354 Stage Make-up **3 Credit hours**
Development of character make-up designs through analysis, research and application of various make-up media suitable to stage, print and film. Adherence to industry standards of hygiene, sanitation and professional etiquette.
Pre-req: THE 250 with a minimum grade of D.
Grade Mode: Normal Grading Mode

THE 355 Costume Design **3 Credit hours**
Practical and psychological aspects of design. Study of design theory, script analysis, rendering techniques, fabric choices. Development of designs from initial concept to final renderings. Practical and psychological aspects of design. Study of design theory, script analysis, rendering techniques, fabric choices. Development of designs from initial concept to final renderings.
Pre-req: THE 250 with a minimum grade of D.
Grade Mode: Normal Grading Mode

THE 356 Costume Construction **3 Credit hours**
A hands-on approach to the techniques of theatrical costuming. Period method by machine and hand, industrial machine and some pattern making. Work on classroom projects and University productions. A hands-on approach to the techniques of theatrical costuming. Period method by machine and hand, industrial machine and some pattern making. Work on classroom projects and University productions.
Pre-req: THE 250.
Grade Mode: Normal Grading Mode

THE 360 Scene Design I **3 Credit hours**
Practical application of aesthetic and technical principles of scene design for the proscenium stage. Script analysis, production concepts, architectural research, mechanical and AutoCAD drawings, white models, painter's elevations are utilized.
Grade Mode: Normal Grading Mode

THE 361 Scene Painting **3 Credit hours**
Exploration of various techniques utilized by scenic artists including the generation of painter's evaluations, design renderings, estimating scenic demands, media selection and execution of designs in full scale.
Pre-req: THE 360 with a minimum grade of D.
Grade Mode: Normal Grading Mode

THE 362 Stage Management **3 Credit hours**
The responsibilities and duties of stage management are explored to prepare students entering the profession. Principles and practices of stage management are applied through scheduling, budgeting, running, cueing and safety. The responsibilities and duties of stage management are explored to prepare students entering the profession. Principles and practices of stage management are applied through scheduling, budgeting, running, cueing and safety.
Pre-req: THE 240 with a minimum grade of D.
Grade Mode: Normal Grading Mode

THE 370 Theatre Practicum **1 Credit hour**
Acting, directing, or technical work in Marshall University Theatre productions. Register only with permission of instructor. Acting, directing, or technical work in Marshall University Theatre productions. Register only with permission of instructor.
Grade Mode: Normal Grading Mode

THE 390 Music Theatre Workshop II **3 Credit hours**
Applied skills in musical theatre including integration of dance, music, and dialogue in ensemble performance. Intended for students majoring in musical theatre. (repeatable for two semesters)
Pre-req: THE 295.
Grade Mode: Normal Grading Mode

THE 423 Acting Styles **3 Credit hours**
Interpretation of roles from classical, romantic, neoclassical, and modern plays. (PR: THE 222 and successful completion of Sophomore Review or permission of instructor.) Interpretation of roles from classical, romantic, neoclassical, and modern plays. (PR: THE 222 and successful completion of Sophomore Review or permission of instructor.)
Pre-req: THE 222 with a minimum grade of D.
Grade Mode: Normal Grading Mode

THE 430 Auditioning II: Prof. Aspects **3 Credit hours**
Students develop skills and prepare materials for professional acting auditions.
Pre-req: THE 230.
Grade Mode: Normal Grading Mode

THE 436 Children's Theatre **3 Credit hours**
Theory, direction and staging of plays for children. PR: Permission of instructor or Theatre Program Director. May be repeated for a total of 9 hours.
Grade Mode: Normal Grading Mode

THE 437 Directing I **3 Credit hours**
Introduction to theories, principles, techniques, and history of directing. Introduction to theories, principles, techniques, and history of directing.
Pre-req: THE 295 with a minimum grade of D.
Grade Mode: Normal Grading Mode

THE 440 Theatre History To 1660 **3 Credit hours**
Survey of man's activities in the theatre from primitive times to 1660.
Pre-req: THE 101.
Grade Mode: Normal Grading Mode

THE 441 Theatre Hist Since 1660 **3 Credit hours**
Survey of man's activities in the theatre from 1660 to present. Survey of man's activities in the theatre from 1660 to present.
Pre-req: THE 101 with a minimum grade of D.
Grade Mode: Normal Grading Mode

THE 450 Stage Lighting II **3 Credit hours**
Advanced study in lighting design principles utilized for non-proscenium stages and/or impressionistic productions will be emphasized. Combined visual, manual and computer generated documentation will comprise portfolio for final critique.
Pre-req: THE 240 with a minimum grade of D.
Grade Mode: Normal Grading Mode

THE 480 Special Topics **1-4 Credit hours**
Program of study not normally covered in other courses. topics vary from semester to semester. Program of study not normally covered in other courses. topics vary from semester to semester.
Grade Mode: Normal Grading Mode

THE 481 Special Topics **1-4 Credit hours**
Program of study not normally covered in other courses. Topics vary from semester to semester. Program of study not normally covered in other courses. Topics vary from semester to semester.
Grade Mode: Normal Grading Mode

THE 482 Special Topics **1-4 Credit hours**
Program of study not normally covered in other courses. Topics vary from semester to semester. Program of study not normally covered in other courses. Topics vary from semester to semester.
Grade Mode: Normal Grading Mode

THE 483 Special Topics **1-4 Credit hours**
Program of study not normally covered in other courses. Topics vary from semester to semester. Program of study not normally covered in other courses. Topics vary from semester to semester.
Grade Mode: Normal Grading Mode

THE 485 Independent Study **1-4 Credit hours**
Courses taught by tutorials; directed independent readings or research; problem reports, and other activities designed to fill the needs of individual students. Courses taught by tutorials; directed independent readings or research; problem reports, and other activities designed to fill the needs of individual students.
Pre-req: THE 295 with a minimum grade of D.
Grade Mode: Normal Grading Mode

THE 486 Independent Study **1-4 Credit hours**
Courses taught by tutorials; directed independent readings or research; problem reports, and other activities designed to fill the needs of individual students. Courses taught by tutorials; directed independent readings or research; problem reports, and other activities designed to fill the needs of individual students.
Pre-req: THE 295 with a minimum grade of D.
Grade Mode: Normal Grading Mode

THE 487 Independent Study **1-4 Credit hours**
Courses taught by tutorials; directed independent readings or research; problem reports, and other activities designed to fill the needs of individual students. Courses taught by tutorials; directed independent readings or research; problem reports, and other activities designed to fill the needs of individual students.
Pre-req: THE 295 with a minimum grade of D.
Grade Mode: Normal Grading Mode

THE 488 Independent Study **1-4 Credit hours**
Courses taught by tutorials; directed independent readings or research; problem reports, and other activities designed to fill the needs of individual students. Courses taught by tutorials; directed independent readings or research; problem reports, and other activities designed to fill the needs of individual students.
Pre-req: THE 295 with a minimum grade of D.
Grade Mode: Normal Grading Mode

THE 490 Professional Theatre Residency **1-4 Credit hours**
Supervised off-campus contractual work-study arrangement with external agencies or theatrical instructions.
Pre-req: THE 295 with a minimum grade of D.
Grade Mode: Normal Grading Mode

THE 491 Theatre Workshop **1-4 Credit hours**
Practical, participatory courses for advanced students and professionals. Experience in new techniques, theories, and principles
Grade Mode: Normal Grading Mode

THE 492 Theatre Workshop **1-4 Credit hours**
Practical, participatory courses for advanced students and professionals. Experience in new techniques, theories, and principles. Practical, participatory courses for advanced students and professionals. Experience in new techniques, theories, and principles.
Grade Mode: Normal Grading Mode

THE 493 Theatre Workshop **1-4 Credit hours**
Practical, participatory courses for advanced students and professionals. Experience in new techniques, theories, and principles. Practical, participatory courses for advanced students and professionals. Experience in new techniques, theories, and principles.
Grade Mode: Normal Grading Mode

THE 494 Theatre Workshop **1-4 Credit hours**
Practical,participatory courses for advanced students and professionals. Experience in new techniques, theories, and principles. Practical,participatory courses for advanced students and professionals. Experience in new techniques, theories, and principles.
Grade Mode: Normal Grading Mode

THE 499 Senior Capstone Project **3 Credit hours**
The Capstone Project serves to demonstrate the student's proficiency in the major field of study. It is the culmination of coursework in the concentration (performance, directing, design, playwriting, state management, etc.)
Pre-req: THE 295 with a minimum grade of D.
Attributes: Capstone Course
Grade Mode: Normal Grading Mode

University Studies (UNI)

UNI 100 Freshman First Class **1 Credit hour**
An introduction to the academic structures and expectations of the University including the E-portfolio process. An introduction to the academic structures and expectations of the University including the E-portfolio process.
Attributes: No Textbook Required
Grade Mode: Normal Grading Mode

UNI 102 Strat for Academic Success **1 Credit hour**
An academic enrichment course which provides students with strategies and practical experience for academic success. Topics to be covered include research skills, critical thinking applications, and effective study skills.
Attributes: No Textbook Required
Grade Mode: Normal Grading Mode

UNI 103 Career Planning Undecided **1 Credit hour**
Designed for undecided college students. Explore career options and majors. Topics include interest testing, career information, decision-making skills, and job finding strategies. Course does not count toward graduation. Designed for undecided college students. Explore career options and majors. Topics include interest testing, career information, decision-making skills, and job finding strategies. Course does not count toward graduation.
Attributes: No Textbook Required
Grade Mode: Normal Grading Mode

UNI 104 Adv Strat for Acad Success **1 Credit hour**
Course provides practical strategies for assessing personal and academic challenges, honing critical thinking skills to make informed decisions, improving learning and time management skills, tracking progress toward personal goals.
Grade Mode: Normal Grading Mode

UNI 201 Peer Mentoring **1 Credit hour**
Students trained as peer advisors will lead discussions, campus field trips and work with faculty advisors in the design and implementation of the freshamn introduction to campus life and classes. (Prerequisite: Permission of the Executive Director CAE or Dean of University College) Students trained as peer advisors will lead discussions, campus field trips and work with faculty advisors in the design and implementation of the freshamn introduction to campus life and classes. (Prerequisite: Permission of the Executive Director CAE or Dean of University College)
Attributes: No Textbook Required
Grade Mode: Normal Grading Mode

UNI 202 Introduction to Scholarship **1 Credit hour**
Prepares students to participate on an active research team, with the guidance of (a) faculty research mentor(s), pursing a line of research.
Grade Mode: Normal Grading Mode

UNI 203 Scholarship Discovery **3 Credit hours**
Engages students in original research that advances knowledge and seeks to improve community conditions.
Grade Mode: Normal Grading Mode

UNI 304 Scholarship of Application **3 Credit hours**
Empowers students to synthesize information and knowledge gained from original research into a meaningful, coherent, and public body of work.
Grade Mode: Normal Grading Mode

UNI 400 Graduate School Preparation **2 Credit hours**
This course will provide necessary steps, tools, and resources future graduates need in completing their undergraduate career and pursuing a graduate degree. Designed for students graduating within one year.
Grade Mode: Normal Grading Mode

Wellness (WELL)

- General Education Course

WELL 118 Develop PE & Sport in US **3 Credit hours**
A survey of the development of sport forms and physical education curricula from colonial America through the present day.
Attributes: Multicultural
Grade Mode: Normal Grading Mode

WELL 305 HE & PE in Early Child Prog **3 Credit hours**
Provides students with a wide array of knowledge and skills so they can effectively assume teacher responsibilities in early childhood health and physical education programs.
Grade Mode: Normal Grading Mode

WELL 310 Teaching Individual Sports **2 Credit hours**
Study and application of the principles and techniques of teaching individual sports skills in grades 5-12 (PR: Completion of Physical Education Activity Competencies).
Grade Mode: Normal Grading Mode

WELL 311 Teaching Team Sports **2 Credit hours**
Study and application of the principles and techniques of teaching team sports skills in grades 5-12 (PR: Completion of Physical Education Activity Competencies).
Grade Mode: Normal Grading Mode

WELL 314 Phys Ed Elementary School **3 Credit hours**
A practical approach designed to aid the elementary teacher in teaching methods and techniques needed for the teaching of elementary physical education. (PR: Majors, WELL 350)
Grade Mode: Normal Grading Mode

WELL 325 School & Comm Health **3 Credit hours**
An examination of some of the specific relationships between school and community health programs, including the roles and interaction of public, professional, private and voluntary health agencies with the school. (PR: HS 220, 221, 321)
Grade Mode: Normal Grading Mode

WELL 350 Rhy & Movement Children **3 Credit hours**
Provides elementary physical education specialists with an overview of rhythms and movement activities for elementary school children.
Grade Mode: Normal Grading Mode

WELL 426 Curriculum in Health Ed **3 Credit hours**
A study of principles, objectives, and procedures in curriculum development for middle and secondary school programs including historical and philosophical perspectives and comparing current curricula. (PR: HS 220, 221, 321, 325)
Grade Mode: Normal Grading Mode

WELL 435 Adapted PE & Mainstream **3 Credit hours**
Theory of remedial exercise and individualizing of physical activities to meet the needs of the physically handicapped. (PR HS 201)
Grade Mode: Normal Grading Mode

WELL 469 Curriculum Development PE **3 Credit hours**
A study of principles, objectives and procedures in curriculum construction in the elementary and secondary school programs. Typical programs studied and evaluated. (PR: Completion of Physical Education activity competencies)
Grade Mode: Normal Grading Mode

Women's Studies (WS)

WS 101 Intro to Women's Studies **3 Credit hours**
Historical and social problems of women. Draws upon literature, history, psychology, sociology and economics to illuminate problems women face today. Historical and social problems of women. Draws upon literature, history, psychology, sociology and economics to illuminate problems women face today.
Grade Mode: Normal Grading Mode

WS 480 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

WS 481 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

WS 482 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

WS 483 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

WS 485 Independent Study **1-4 Credit hours**
Grade Mode: Normal Grading Mode

WS 486 Independent Study **1-4 Credit hours**
Grade Mode: Normal Grading Mode

WS 487 Independent Study **1-4 Credit hours**
Grade Mode: Normal Grading Mode

WS 488 Independent Study **1-4 Credit hours**
Grade Mode: Normal Grading Mode

Faculty

Under Construction

University Calendar

First Semester 2022-2023

August 12, Friday
End of summer school

August 15, Monday
Residence halls open for freshmen

August 15, Monday – August 19, Friday
Registration/schedule adjustment

August 16, Tuesday – August 21, Sunday
Week of Welcome for freshmen

August 19, Friday, 9:00 a.m.
Residence halls open for upperclassmen

August 22, Monday, 8 a.m.
First day of classes

August 22, Monday – August 26, Friday, 8 a.m. – 5 p.m.
Late registration/schedule adjustment (add-drop)

August 26, Friday
Last day to add a class

August 29, Monday
Withdrawal ("W") period begins

September 3, Saturday – September 5, Monday
University Computing Services unavailable

September 5, Monday
Labor Day Holiday – University closed

September 9, Friday
Application for December graduation due in academic Dean's office

September 16, Friday
Last day to withdraw from 1st 8 weeks courses

October 3, Monday, Noon
Freshmen/Sophomore midterm grades due

October 7, Friday
1st 8 weeks courses end

October 10, Monday
2nd 8 weeks courses begin

October 24, Monday
Students should schedule appointments with advisors to prepare for advance registration.
(Required for students who have mandatory advising holds.)

October 28, Friday
Last day to withdraw from a full semester individual course

October 31, Monday
Recommended date to apply for May 2023 graduation

October 31, Monday – December 2, Friday
Complete withdrawals only

November 7, Monday – November 18, Friday
Advance registration for spring semester (open only to currently enrolled students)

November 11, Friday
Last day to withdraw from 2nd 8 weeks courses

November 11, Friday
Approved thesis/dissertation must be submitted to the ETD website for final review

November 19, Saturday, Noon

Residence halls close

November 21, Monday
Advance registration for spring semester (open to admitted and readmitted students)

November 21, Monday – November 25, Friday
Thanksgiving Break – classes dismissed

November 24, Thursday – November 25, Friday
Thanksgiving Holiday – University closed

November 27, Sunday, 9:00 a.m.
Residence halls open

November 28, Monday
Classes resume

November 28, Monday – December 2, Friday
Dead week

December 2, Friday
Last class day
Last day to completely withdraw from fall semester

December 3, Saturday
Exam day for Saturday classes
Some common finals

December 5, Monday
Exam day

December 6, Tuesday
Exam day

December 7, Wednesday
Study day
Exams resume at 3:00 p.m. for Wednesday evening classes

December 8, Thursday
Exam day

December 9, Friday
Exam day

December 10, Saturday, TBD
Winter Commencement, Mountain Health Arena
Official December graduation date

December 11, Sunday, Noon
Residence halls close

December 12, Monday, Noon
Final grades due
All requirements must be met for degree completion

December 22, 2022, Thursday – January 2, 2023, Monday
Winter Break – University closed

Second Semester 2022-2023

January 3, Tuesday
University reopens

January 3, Thursday – January 6, Friday
Registration/schedule adjustments

January 6, Friday, 9 a.m.
Residence halls open

January 9, Monday, 8 a.m.
First day of classes

January 9, Monday – January 13, Friday
Late registration/schedule adjustment (add-drop)

January 13, Friday
Last day to add a class

January 16, Monday
Martin Luther King, Jr. Holiday – University closed

January 17, Tuesday
Withdrawal ("W") period begins

January 27, Friday
Applications for May graduation due in academic Dean's office

February 10, Friday
Last day to withdraw from 1st 8 weeks courses

February 20, Monday, Noon
Freshmen/Sophomore midterm grades due

February 24, Friday
1st 8 weeks courses end

February 27, Monday
2nd 8 weeks courses begin

March 6, Monday
Students should schedule appointments with advisors to prepare for advance
registration for summer and fall. (Required for students with mandatory advising holds.)

March 11, Saturday, Noon
Residence halls close

March 13, Monday – March 17, Friday
Spring Break
Classes dismissed

March 20, Monday
Classes resume

March 20, Monday
Recommended date to apply for July/August 2023 graduation

March 20, Monday – March 24, Friday
Advance registration for summer sessions (open only to currently enrolled students)

March 24, Friday
Last day to withdraw from a full semester individual course

March 27, Monday
Advance registration for summer sessions begin (open to admitted/readmitted students)

March 27, Monday
Recommended date to apply for December 2023 graduation

March 27, Monday – April 21, Friday

Complete withdrawals only

March 31, Friday
Approved thesis/dissertation must be submitted to ETD website for final review

April 3, Monday – April 14, Friday
Advance registration for fall semester (open only to currently enrolled students)

April 7, Friday
Last day to withdraw from 2nd 8 weeks courses

April 17, Monday
Advance registration for fall semester begins (open to admitted/readmitted students except first-time fall undergraduates)

April 17, Monday – April 21, Friday
Dead week

April 21, Friday
Last class day
Last day to completely withdraw from spring semester

April 22, Saturday
Exam day for Saturday classes
Some common finals

April 24, Monday
Exam day

April 25, Tuesday
Exam day

April 26, Wednesday
Study day
Exams resume at 3 p.m. for Wednesday evening classes

April 27, Thursday
Exam day

April 28, Friday
Exam day

April 29, Saturday, TBD at Mountain Health Arena
Commencement
Official May graduation date

April 30, Sunday, Noon
Residence halls close

May 1, Monday, Noon
Final grades due
All requirements must be met for degree completion

May 8, Monday – August 11, Friday
Summer school sessions

May 27, Saturday – May 29, Monday
University computer services unavailable

May 29, Monday
Memorial Day Holiday – University closed

July 4, Tuesday
Independence Day Holiday – University closed

Summer Sessions 2023

Intersession

May 5, Friday, 8 a.m. – 5 p.m.
Regular registration

May 8, Monday
First day of classes
Late registration/schedule adjustment (add/drop) closes at 5:00 p.m.

May 9, Tuesday
Withdrawal ("W") period begins

May 19, Friday
Last day to withdraw from an individual course

May 22, Monday – June 1, Thursday
Complete withdrawals Only

May 27, Saturday – May 29, Monday
University computer services unavailable

May 29, Monday
Memorial Day Holiday – University closed

June 1, Thursday
Last class day
Last day to completely withdraw from Intersession

June 2, Friday
Final exam day

June 5, Monday, Noon
Deadline for submitting final grades

Summer I

May 12, Friday, 8 a.m. – 5 p.m.
Regular registration

May 15, Monday
First day of classes

May 15, Monday – May 17, Wednesday
Late registration/schedule adjustment (add-drop)

May 18, Thursday
Withdrawal ("W") period begins

May 27, Saturday — May 29, Monday
University computing services unavailable

May 29, Monday
Memorial Day Holiday – University closed

June 30, Friday
Last day to withdraw from an individual course

July 3, Monday – August 3. Thursday
Complete withdrawals only

July 4, Tuesday
Independence Day Holiday observed – University closed

July 14, Friday
Application for August graduation due in academic Dean's office

Approved thesis/dissertation must be submitted to the ETD website for final review

August 3, Thursday
Last class day
Last day to completely withdraw from Summer I

August 4, Friday
Final exam day

August 7, Monday, Noon
Deadline for submitting final grades

Summer II

June 2, Friday, 8 a.m. – 5 p.m.
Regular registration

June 4, Sunday, 9 a.m.
Residence halls open

June 5, Monday
First day of classes
Late registration/schedule adjustment (add/drop) closes at 5:00 p.m.

June 6, Tuesday
Withdrawal ("W") period begins

June 9, Friday
Application for July graduation due in academic Dean's office

June 23, Friday
Last day to withdraw from an individual course

June 26, Monday- July 6, Thursday
Complete withdrawals only

July 4, Tuesday
Independence Day Holiday observed – University closed

July 6, Thursday
Last class day
Last day to completely withdraw from Summer II

July 7, Friday
Final exam day
Official July graduation date

July 10, Monday, Noon
Deadline for submitting final grades
All requirements must be met for degree completion

Summer III

July 10, Monday, 8 a.m. – 5 p.m.
Regular registration

July 11, Tuesday
First day of classes
Late registration/schedule adjustment (add/drop) closes at 5:00 p.m.

July 12, Wednesday
Withdrawal ("W") period begins

July 14, Friday
Application for August graduation due in academic Dean's office

Approved thesis/dissertation must be submitted to the ETD website for final review

July 28, Friday
Last day to withdraw from an individual course

July 31, Monday — August 10, Thursday
Complete withdrawals only

August 10, Thursday
Last class day
Last day to completely withdraw from Summer III

August 11, Friday
Final exam day
Official August graduation date

August 14, Monday, Noon
Deadline for submitting final grades
All requirements must be met for degree completion

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