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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	636-6690
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
Graduate College (Huntington)	696-6606
Graduate College (S. Chas.)	746-2500
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
Economics/Finance	696-2311
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
German	696-2744
Greek	696-4323
History	696-6780
Journalism/Mass Communication	696-2360
Kinesiology	696-6490
Latin	696-4323
Management/Health Care Administration	696-5423
Mathematics and Applied Science	696-6482
Marketing/Management Information Systems/Entrepreneurship	696-5423
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
Outreach and Continuing Studies	696-2330
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
Spanish	696-2743
Special Education	696-2340
Theatre	696-7184
Student Services	
Academic Advising	696-3169
African American Students' Programs, Center for	696-6705
Alumni Affairs	696-3134
Artists Series	696-6656
Athletic Ticket Office	696-4373
Attorney for Students	696-2285
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
Greek Affairs	696-2284
HELP Program	696-6317
Housing and Residence Life	696-6765
ID Card Office	696-6843
Information Technology, Office of	696-6671
IT Service Desk	696-3200
Judicial Affairs	696-2495
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 Financial Assistance	696-3162
Student Government	696-6435
Student Support Services	696-3164
Study Abroad	696-6265
Substance Abuse Education Program	696-3111
Technology Outreach Center	696-3325

Telecommunication	696-8965
Testing Center	696-2604
Tutoring Office	696-6622
University College	696-3169
Women's 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

Dr. Jerome A. Gilbert, President

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

Dr. Jaime Taylor, Provost and Senior Vice President for Academic Affairs

Mr. F. Layton Cottrill, Jr., Senior Vice President for Executive Affairs and General Counsel

Mr. Mark Robinson, Senior Vice President for Finance

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

Ms. Ginny Painter, Senior Vice President for Communications and Marketing

Mr. Maurice Cooley, Associate Vice President for Intercultural Affairs

Dr. Joseph Shapiro, Dean, Joan C. Edwards School of Medicine

Dr. John Maher, Vice President for Research

Mr. Lance West, Vice President for Major Gifts

Ms. Charlotte Weber, Vice President for Federal Programs

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 – Engineering Accreditation Commission of the Accrediting Board for Engineering Technology** accredits the general engineering (BSE) undergraduate program.
ABET- Engineering Accreditation Commission of the Accrediting Board for Engineering Technology
111 Market Place, Suite 1050
Baltimore, MD 21202
Telephone 410-347-7700
- **American Chemical Society** certifies the Department of Chemistry.
- **American Psychological Association** accredits Doctor of Psychology degree program.
- **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 amphitheatres 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 17th 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.

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 Center for African American Students, the Student Resource Center, Student Affairs, West Virginia Army National Guard, Food Service, Lesbian-Gay-Bisexual Outreach 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 Graduate College, 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. The College of Science has instructional and computer laboratories, faculty offices and the MAGIC (Marshall's Advanced Gaming and Interactivity Center) lab located in Prichard Hall, also.

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. Photo 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 of 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.**

Requests for information, the online application, and additional resources can be found at www.marshall.edu/admissions (<http://www.marshall.edu/admissions/>). For specific admission requirements relative to student type please see the appropriate section below.

Admission to the university does not guarantee admission to any particular college or degree program. Each student must meet the requirements of the academic college s/he wishes 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. If an applicant fails to register during the term for which s/he is admitted, the applicant may contact the Office of Admissions and request an extension of acceptance for up to one academic year. If an applicant attends another accredited college or university during that time, s/he 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. Once an applicant is admitted, s/he 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).
2. An overall Grade Point Average of 2.00 on a 4.00 scale and an ACT Composite score of 19 or SAT Total Score¹ 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 Score¹ 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, must enroll on the Huntington campus, 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).

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.

If a student cannot provide the aforementioned documentation, s/he 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. If a transfer student is admitted with a cumulative GPA below 2.00, he or she is on academic probation and is 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 scholarship and loan 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.

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. 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 Junior or Senior Year of High School

- Be currently enrolled in high 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 Junior or Senior Year of High School

- Be currently enrolled in high school program.
- Completed admission application.
- A current high school transcript reflecting a cumulative minimum GPA of 3.00 on a 4.00 scale.
U.S. high school - high school transcript reflecting a cumulative minimum GPA of 3.00 on a 4.00 scale.
Non-U.S. high school - high school transcript in original language along with a certified English translation from the institution reflecting a minimum 3.00 GPA on a 4.00 scale; in some cases, high school transcripts may need to be evaluated by an accepted evaluation agency (please contact the Office of Admissions for more information).
- One letter of recommendation from a counselor or principal.
- Proof of English proficiency. For information regarding options for proving English proficiency, please see Proof of English Language Proficiency in the International Students section that follows.
- To take English or math courses, a student must have a qualifying ACT/SAT score in the subject area.

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 undergraduate applicants to Marshall University, regardless of citizenship, who do not hold a high school degree or higher from an approved country where the primary language is English must provide proof they are proficient in the English language for admission to the university. Proof of English proficiency can be met by one of the following:

- Internet-based TOEFL (Test of English as a Foreign Language) score of 61 or higher.
- IELTS (International English Language Testing System) score of 6.0 or higher.
- SAT - minimum ERW score of 480. Prior to March 2016, minimum verbal score of 450.
- ACT - minimum subscores of 18 in English and in Reading.
- Completion of the Marshall University English Language Institute Academic Preparatory I with minimum of C's in all courses.
- Transfer credit equivalent to English 101 with minimum C grade.
- Successful completion of an English as a Second Language (ESL) program approved by Marshall University's Office of Admissions.

Proof of Financial Support

All admitted students who need to obtain a visa to enter the United States for academic study must show proof that they have secured finances to support their study and living costs for one year (12 months) before immigration documentation can be released to the student. Proof of financial support can be demonstrated by one of the following:

- An affidavit of sufficient financial support from a personal sponsor (i.e. parent, relative, friend, etc.) that has been certified by a U.S. bank or international financial institution.
- Documentation from a scholarship agency (i.e. government, corporation, etc.) stating the availability of funds and the intention to support the student's educational and living expenses for the entire duration of study at Marshall University.
- Bank statement from a U.S. bank, financial institution or its affiliate in U.S. dollars.
- Statement from the student's employer certifying that s/he has been granted study leave and salary support.

Proof of Health Insurance

All international students are required to provide proof of health insurance prior to registration for each term at Marshall University. For more information, please visit 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 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).
4. Proof of financial support (see Proof of Financial Support section).

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 transcript, including graduation date, in the original language of issue, along with a certified English translation, submitted directly to the Marshall University Office of Admissions by the designated school official at the institution you attended.
 - *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).
6. Proof of financial support (see Proof of Financial Support 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 transcript in the original language of issue, along with a certified English translation, submitted directly to the Marshall University Office of Admissions by the designated school official at the institution you attended.
 - *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).
7. Proof of financial support (see Proof of Financial Support 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. A transient student must complete a new application for each term they wish to attend at 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 their 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 Approval Request" form (available in the Office of Admissions) 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 Approval Request" 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

A student who is not pursuing any type of degree may enroll as a non-degree student if he/she has been out of high school for more than five years and has no prior college work, or if the student is of the age of 65 or older and wishes 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 he/she is 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. If a regular non-degree student decides to become degree-seeking, he/she 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 105	8
Biology	4	BSC 120, BSC 121	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 203 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
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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 104	BSC 120, BSC 121	BSC 120, BSC 121
Business	MGT 100	MGT 100	MGT 100	MGT 100
Chemistry	CHM 205, CHM 217	CHM 205, CHM 217	CHM 204, CHM 205, CHM 217, CHM 218	CHM 204, 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 261	HST 260, HST 261
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	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, 50 Principles of		ECN 253	3
Management, Principles of	50	MGT 320	3
Marketing, Principles of	50	MKT 340	3
Microeconomics, 50 Principles of		ECN 250	3
Psychology, Introductory	50	PSY 201	3

Sociology, Introductory	50	SOC 200	3
College Mathematics	50	MTH 121, MTH 125	6
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 15-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 2020-2021 can expect estimated annual expenses at Marshall University to range from about \$23,755 to \$34,985, including personal expenses.

The following is a table of estimated costs for the 2020-2021 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	\$8,512	\$14,596	\$19,366
Double-Occupancy housing	\$6,848	\$6,848	\$6,848
Board	\$5,130	\$5,130	\$5,130
Subtotals	\$20,490	\$26,574	\$31,344

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 full 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 2020-2021 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 2020-2021 academic year.

Tuition & Enrollment Fees

Undergraduate Tuition and Fees Regular Semester - Fall 2020 - Full-Time Student

Tuition	Resident Rates	Metro Rates ¹	Non-Resident Rates
Base Tuition and Fees	\$4,256.00	\$7,298.00	\$9,683.00
Regents Bachelor of Arts	\$4,256.00	\$7,298.00	\$9,683.00

University College	\$4,256.00	\$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 Information Technology and Engineering	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	65.00
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)	266.25

E-Delivery Course Fee (per credit hour)	40.00
Electronic Course Fee - Undergraduate/WV Rocks (per credit hour)	250.00
Enrollment Deposit (Undergraduate)	100.00
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)	632.00
Non-Major Course Fee (per 2-hour course)	1,264.00
Non-Major Course Fee (per 3-hour course)	1,896.00
Non-Major Course Fee (per 4-hour course)	2,528.00
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
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 (Annual)	350.00
Pharmacy - Practice Readiness Fee (Annual, Year 2 only)	390.00
Pharmacy - Practice Readiness Fee (Annual, Years 3-4 only)	390.00
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	\$3,424.00
Twin Towers	\$2,862.00
Buskirk	\$2,862.00
Deluxe Single Occupancy	
Buskirk (if available)	\$3,833.00
Holderby Hall	\$3,394.00
Twin Towers	\$3,833.00
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	\$1,925.00

10 Meals per Week w/ \$700 Flex \$2,125.00
and 20 Anytime Meals

10 Meals per week w/ \$935 Flex \$2,275.00

14 Meals per Week w/ 500 Flex \$2,125.00
and 10 Anytime Meals

14 Meals per Week w/ \$700 Flex \$2,415.00
and 20 Anytime Meals

14 Meals per Week w/ 935 Flex \$2,565.00

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 Withdrawal/Reinstatement 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 Director of Student Financial Assistance in 116 Old Main and the University Bursar in 101 Old Main. (See Student Financial Assistance below.)

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.
8. If a student disputes an administrative withdrawal, he/she may file an appeal with the Student Grievance Board through the Office of 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.

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."

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.

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 fafsa.gov (<http://fafsa.gov>). 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 Section 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 by April 1. 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 2021 summer terms, the student must have a 2021 FAFSA on file. A 2021 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 fafsa.gov (<http://www.fafsa.gov>). 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, Metro¹, 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

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
- Ensure that all documents are signed and complete and include the student's name and Marshall University ID
- 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 by the published deadlines and submitting it to the Financial Aid SAP Appeals Committee, c/o Office of Student Financial Assistance. The SAP Appeal for Financial Aid Reinstatement Form is available at www.marshall.edu/fasap (<https://www.marshall.edu/fasap/>).

The appeal must include the following:

1. A completed and valid 2020-21 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	Thursday of the week before the start of classes
Spring Semester	Thursday of the week before the start of classes
Summer Terms	Last Friday of May

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 will be provided a Financial Aid Academic Plan and will be required to sign a Financial Aid Academic Probation Agreement. 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.

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 Freshmen
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 Educational Benefits

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/>) and click on the Types of Aid tab.

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. The instructor is required to notify the Director of Student Financial Assistance in the case of the latter.

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; Fax: 304-696-3242; E-Mail Address: sfa@marshall.edu.

Learning Opportunities and Resources

Academic Advising

Sarah Davis, Director of Undergraduate Academic Advising,
304-696-3169

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. Academic Planning provides a bird's-eye view of each program of study, allowing students to map out a plan for their future coursework. These three 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.

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

Shaunte Polk, Program Director

Memorial Student Center 1W25/304-696-6705

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 (now the Marshall University 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

Carl Mummert, 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 <http://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

Maurice Cooley, Associate Vice President

Old Main 107 / 304-696-4677

www.marshall.edu/mcip (<http://www.marshall.edu/mcip/>)

mcip@marshall.edu

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

Marshall University Intercultural Affairs comprises the Office of the Associate Vice President for Intercultural Affairs and the Center for African American Students' Programs, the Women's Center, and the Lesbian, Gay, Bisexual, Transgender and Other 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.

Intercultural Faculty in Residence Program

The Intercultural Faculty in Residence program is designed to attract individuals at the dissertation stage or newly minted terminal degree holders to teach two courses in his or her academic discipline. The selected faculty member in residence will reside on campus during the academic year. A room will be provided as a part of the compensation package. A senior level faculty member will be assigned to the faculty member in residence to encourage integration into the Marshall University community, provide research assistance, guidance, and information on publishing. For additional information contact Maurice Cooley, Associate Vice President for Intercultural Affairs.

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 Technology Outreach Center

Kelli Mayes, Director

214 Communications Building/304-696-3325

mayes@marshall.edu

www.marshall.edu/mtoc (<http://www.marshall.edu/mtoc/>)

The Marshall Technology Outreach Center (MTOC) is located in Communications Building 214 on the Huntington campus. The mission of the Marshall Technology Outreach Center is to establish Marshall University as the leader in technology outreach in the Advantage Valley region so that information is actively exchanged with external audiences benefiting the individuals, communities, and organizations served, as well as Marshall University. Technology outreach allows Marshall University to enhance the lives of the community through integrating the university externally and dissolving barriers to traditional technology education. Students who may not have the opportunity to be part of the formal campus can be linked to the university through outreach activities. Programs include Online College Courses in the High Schools (OCCHS) and ongoing K-12 technology partnerships including teacher-training initiatives and staff development.

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.

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://](http://www.marshall.edu/uc/national-student-exchange/)

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

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 students are expected to attend this important first step into college life at Marshall University.

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 found near the end of 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/>).

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 "Preparation for Professional Careers in the Health Care Professions" 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

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 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 Old Main, Prichard Hall and the Recreation 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. Student Health Education/Substance Abuse Prevention, 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.

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 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

Old Main 102/304-696-3160

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
- Universitat Jaume I in Castellon de La Plana, Spain
- 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>).

Knowledge Exchange Institute (KEI)

Marshall University is a member of Knowledge Exchange Institute (KEI) which offers more than 25 programs in Africa, Latin America, Asia, Australia and Europe. For additional information, please visit www.keiabroad.org (<http://www.keiabroad.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—use the study abroad library in the Office of Admissions, Old Main 102. Also, check out online sources for study abroad. 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

Vickie Seguin, Director

Room G-45, Morrow Library/304-696-2604

seguin@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

University College, Smith Communications Building

212/304-696-3169

www.marshall.edu/uc/textbook-loan-program (<http://www.marshall.edu/uc/textbook-loan-program/>)

www.marshall.edu/uc/textbook-loan-program/)

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

University College, Smith Communications Building

211/304-696-6622

Sabrina Simpson, Coordinator

tutoring@marshall.edu

www.marshall.edu/uc/ (<http://www.marshall.edu/uc/>)

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 University College or visit the UC website for a complete schedule.

Writing Across the Curriculum

Carl Mummert, Director

Smith Hall 717

304-696-6156

www.marshall.edu/ctl/writing-across-the-curriculum (<http://www.marshall.edu/ctl/writing-across-the-curriculum/>)

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/>)

[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 aids, 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 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'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 authoritative 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. The Vice President for Regional Operations, in consultation with staff at other learning centers, will decide on class cancellations.

South Charleston Campus

Since South Charleston classes do not generally meet until late afternoon, an effort will be made to decide about classes by noon. 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 for academic dishonesty may be imposed by the instructor of the course, the department chairperson, the Academic Dean or the Dean of Undergraduate Studies. Students may not withdraw from the course to avoid a sanction. A faculty member may not exclude a student 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.

a. The instructor may impose at his or her 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 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 an appeal.
- Reduction of Final Course Grade/Failure of 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.

- b. 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.
- c. 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 the inclusion of confirmed charges/sanctions in the student's records) is designed to inform a student of the potential repercussions of repeat offenses and his/her rights of appeal.
- d. 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 his/her right of appeal. A copy of the report will go into the student's college file. Any subsequent actions taken (additional sanctions imposed, the lessening of sanctions, the withdrawal of accusations, the results 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 his/her 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 may 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 he or she will be suspended for a period of one academic year. If this student is charged with a fourth offense, he or she will be expelled from the university.

- If a student elects not to complete the Academic Integrity Seminar, he or she will be suspended after his or her second offense and expelled after his or her 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 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) instructional 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 his/her rights of appeal. A copy of the report will go into the student's college file.

Any subsequent actions taken (additional sanctions imposed, the lessening of sanctions, the withdrawal of accusations, the results of appeals, etc.) should be reported to the Office of Academic Affairs within ten (10) days of the action.

Recording

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.

*Revised by Marshall University Board of Governors
July 12, 2013*

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 not have been enrolled on a full-time or part-time basis for more than 12 credit hours at any higher education institution for a period of five consecutive calendar years prior to the request for academic forgiveness;
- only *D* and *F* grades received prior to the five year, non 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.

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.

A student may apply for academic forgiveness by submitting to his/her college dean an application for "Academic Forgiveness," available in the college office. The dean can accept, modify, or reject the application and will provide a justification. Students who do not normally qualify for readmission because of a low GPA will, if their request for forgiveness is approved, be readmitted and placed on academic probation. The decision of forgiveness must be made again whenever the student changes programs, departments, colleges, or institutions. (Amended and approved at December 9, 1986, APSC meeting.)

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

Exception: The Board of Regents Bachelor of Arts Program is governed by a different forgiveness policy. (See section on Board of Regents degree.)

Academic Probation and Suspension

For information on Financial Aid Probation, please see the section on Student Financial Assistance (p. 32).

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

Please see section titled above titled "Academic Dishonesty Policy" for discussions of sanctions for academic dishonesty, for reporting, and for recording.
- 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, or a third offense after he or she has taken the Academic Integrity Seminar, he or 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. *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 issue 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, 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 the 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 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) instructional 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 chairperson 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) days after the student or instructor has submitted the appeal documentation. If the Dean of the college 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 University Academic Appeals Board to review the appeal for adherence to policy. If the appeal follows policy, the Board will schedule the 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 University Academic Appeals Board also has the right to seek additional documentation

if necessary. The University 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) instructional 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 the Academic Dishonesty Policy.

1. In those cases where the instructor imposes a sanction 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 section V. Academic Appeals, part A. Student Appeals for Instructor Imposed Sanctions.
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) instructional 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) instructional 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) instructional 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) instructional 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) instructional 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) 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.

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 or 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, or failure of course.
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 have 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 Panel 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 thirty (30) instructional days of the Academic Appeals Board verification of adherence to university policies. Upon written request, the Hearing Officer may, at his or 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) instructional 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 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 has the right, at his or her own discretion and expense, to retain legal counsel for representation only when he or 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. 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 appellant with his or 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 or her advisor, if any, and the appellee and his or 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 or 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 an 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 L herein, all evidence must be presented in the presence of the student.
- J. The appellant will be given the opportunity to testify and present evidence and witnesses on his or 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) instructional 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.
- K. The Hearing Officer 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.
- L. If the 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 officer, or if the appellant or the appellee leaves before the conclusion of the hearing without permission of the Hearing officer, 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.
- M. 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.
- N. The written results of the hearing and the reporting of any dissenting opinions will go to the student, the instructor, the appropriate Academic Dean, the Chairperson of the Budget and Academic Policy Committee, and the Provost and Senior Vice President of Academic Affairs within five (5) instructional days upon the conclusion of the Hearing Panel.

- O. No one may tape the proceedings.
- P. Within fifteen (15) instructional 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.

Q. The Provost and Senior Vice President of Academic Affairs may affirm or modify the panel's findings and sanctions. The decision of the Provost and Senior Vice President for Academic Affairs is final. He or 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; NEW DATE

Revised by Faculty Senate: March 19, 2002; February 27, 2003; November 18, 2004; March 31, 2005; May 7, 2009; NEW DATE

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:

- Biological Sciences
- Criminal Justice
- Geography
- Health Informatics
- Psychology
- Sociology
- Sport Administration

Please check with the Graduate College office (Old Main 113) for additional AGD programs.

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 from the Graduate College office or online at the Graduate College website. The completed, signed, and approved Plan of Study must be submitted to the Graduate College. Any changes to the AGD Plan of Study must be approved by the undergraduate advisor and Director of Graduate Studies and submitted in writing to the Dean of the Graduate College.
2. The student's acceptance into the AGD program is subject to the approval of the Plan of Study by the Dean of the Graduate College.
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 Dean of the Graduate College in writing. 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 enrolled in the Graduate College and 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 and minor requirements for the 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. Students must meet the graduation requirements in this catalog. 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. 220) 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 Student Advocate and Success Specialist 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 Student Advocate and Success Specialist 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 Student Advocate and Success Specialist.
 - b. The Student Advocate and Success Specialist 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 Student Advocate and Success Specialist addresses these absences.

4. **Other official activities.**

a. **Short-term military obligations.** The Student Advocate and Success Specialist 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 Student Advocate and Success Specialist 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 Student Advocate and Success Specialist 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 address 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

Submission of 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.

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 sixtieth 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 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.

*Adopted by West Virginia Higher Education Policy Commission (Series 22)
Effective August 1, 2002.*

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. Exemptions from this policy include night classes, laboratories, freshman English composition courses, and any classes

meeting once a week. Dead Week is not applicable to Intersession or Summer Session.

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. A student may withdraw from an individual online course through 2/3 of the official course length. 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: Last Day of Class

The last date for total withdrawal from the university is the last day of class. Total Withdrawal from the university is defined as dropping all classes for which a student is currently registered. Any part-of-term courses that have ended, such as first 8-week classes, will not be dropped from the student schedule as the course has already completed.

A student who wishes to totally withdraw from the university must first secure the signature of a Total Withdrawal Counselor and then present the request to the Registrar in person, by email, or by mail. If the request is made in person, a drop form bearing the signature of a Total Withdrawal Counselor must be submitted to the Registrar's Office. Requests by email must be sent to registrar@marshall.edu 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 a Total Withdrawal Counselor, permission may be obtained via email. A list of Total Withdrawal Counselors is provided on the Office of the Registrar website (<https://www.marshall.edu/registrar/registration/>).

Grades Assigned for Withdrawal from the University

Students withdrawing from the university receive a grade of *W* for all courses. The *W* grade (withdrew) has no impact on the Grade Point Average.






Students who withdraw from the university improperly, or who do not follow the regulations described here, receive grades of *F* at the end of the semester or term.

Dropping Individual Courses

Final Date: Tenth Friday in a Regular Term

- **Day classes:** Students can drop individual courses after the Schedule Adjustment period and during the Withdrawal period which lasts until the Friday of the tenth week of class during a regular semester. The exact last day for dropping individual courses is always published in the Academic Calendar for any given semester or term. A student must get a "Schedule Adjustment and Class Drop Form" from the Registrar's Office, fill in the required course drop information, and then obtain the signature of the course instructor. Alternatively, an e-mail from the student's MU e-mail address is acceptable should it contain the student's MU ID number, the course four-digit CRN, course number (Example: ENG 101) and section number. The e-mail must be sent to the course instructor for approval and then the student must forward that instructor approval to registrar@marshall.edu. If a student is on academic probation, he/she must also get the approval and signature of the associate dean of his/her college and bring the completed form to the Registrar's Office.
- **E-Course Withdrawal Period:** The withdrawal policy for e-courses parallels that for regular courses. A student can withdraw from an individual e-course through 2/3 of the official course length. After that time, only a complete withdrawal from the university is allowed. The refund policy for e-courses also parallels that of regular courses.
- **Night or Off-Campus classes, or E-Courses:** Classes that meet 4:00 p.m. or after, off-campus, or online do not require instructor signature and may be withdrawn in person at the Office of the Registrar or by sending an e-mail from the student's MU e-mail address and contain the student's MU ID number, course CRN, Course number (Example: ENG 101) and section number, to registrar@marshall.edu. If a student is on academic probation he/she must have the approval signature of his/her associate dean.
- **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	4

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 (which lasts until the tenth Friday after the first class day of the regular semester), will receive a grade of *W*. For eight week courses, summer sessions and other courses of varying lengths, the withdrawal period ends the Friday immediately following the two thirds point in the course. Exact withdrawal dates are published in the annual University Academic Calendar. The *W* grade (withdrew) has no impact on a student's Grade Point Average.

Students who drop courses improperly, or who do not follow the regulations described here, receive a grade of *F* at the end of the semester or 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
PE 115	B	3 x	1 =	3
UNI 100	CR	0 x	(1) =	0
BSC 104	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	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 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.

- *W (Withdrawn)*: 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.

Inter-College Transfer

Students who wish to transfer to another college must initiate the request in the office of their current college. 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.

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.

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.

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.

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 Associate Dean of 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 Associate Dean of Student Affairs.
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.

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/.

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: courses repeated under the D/F Repeat Rule, 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 extended 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/>), 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.

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 should pick up an application in the office of the Graduate College (OM 113) or in the Office of Admissions and Records in South Charleston. The application requires the recommendation of the student's major department chairperson, college dean, and the dean of the Graduate College. A completed application must be on file in the Graduate College 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's Graduate College 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 eight 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 freshmen 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; Ms. Janet Dooley, 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; and Basketball Friday Night in West Virginia.

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 and the Jomie Jazz Center. 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, 88.1 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. 86)
- School of Art and Design (p. 90)
- School of Journalism and Mass Communication (p. 117)
- School of Music (p. 135)
- School of Theatre (p. 158)

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 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.

- 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 five majors:

- Allied Arts
- 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 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

Mr. Frederick Bartolovic, Interim Director
www.marshall.edu/art (<http://www.marshall.edu/art/>)

Professor

Barnes-Marsano, Bartolovic, Morton, Reed

Associate Professor

Cook, Hagarty, Kaufmann, Stark

Assistant Professor

Danford, Kozlowski, McCullough, McDermott

W. Page Pitt School of Journalism and Mass Communications

Ms. Janet Dooley, Director
www.marshall.edu/jmc (<http://www.marshall.edu/jmc/>)

Professor

Bailey, Dooley, Hapney, Hollis, Morris, Rabe, Sias, Swindell

Associate Professor

Goodman, Ingersoll

Assistant Professor
Bumgarner, York

School of Music
Dr. Susan Tusing, Director
www.marshall.edu/music (<http://www.marshall.edu/music/>)

Professor
Alves, A. Bingham, E. Bingham, Castleberry, Dikener, Dobbs, Hall, Lawson, Saunders, Smith, M. Stroehrer, V. Stroehrer, Tusing, Vauth, Zanter

Associate Professor
Dalton

Assistant Professor
Botes, 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
Burns, Trees

Interdisciplinary Programs Programs

- Musical Theatre, B.F.A. (p. 86)
- Video Production, B.A. (p. 88)

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. All 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		
<i>Core 1: Critical Thinking</i>		
FYS 100	First Yr Sem Critical Thinking	3
MTH 121 	Concepts and Applications (CT)	3
Critical Thinking		3
<i>Core 2</i>		
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
<i>Additional University Requirements</i>		
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	1
MUS 196	Voice	1
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		
<i>Core 1: Critical Thinking</i>		
FYS 100	First Yr Sem Critical Thinking	3
Critical Thinking		3
Critical Thinking		3
<i>Core 2</i>		
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
<i>Additional University Requirements</i>		
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
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
Minor Requirement	3
JMC 432 AD-PR Video Production	3
Credit Hours	19


Second Semester

THE 437 Directing I	3
Minor Requirement	3
Free Elective	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	124

School of Art and Design


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

- Allied Arts, B.A. (p. 97)
- Art History, Minor (p. 97)
- Art, B.A. (p. 97)
- Studio Art, Minor (p. 102)
- Visual Arts, B.F.A. (p. 102)

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)

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: 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.

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.

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.

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 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 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.

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.

Pre-req: ART 214 and ART 217.**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.

Grade Mode: Normal Grading Mode**ART 281 Special Topics****1-4 Credit hours**

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.

Grade Mode: Normal Grading Mode**ART 283 Special Topics****1-4 Credit hours**

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 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****0 Credit hours**

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 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: Credit/No Credit Grade Only**ART 301 Printmaking Processes****3 Credit hours**

Experiments in the media of intaglio, lithography, serigraphy, 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 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.

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.

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.

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 airbrush 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.

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.**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.

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.

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.**Attributes:** 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 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.

Pre-req: ART 301 and (ART 298 or ART 299).**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.

Pre-req: ART 315 or JMC 360.**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 and (ART 298 or ART 299).**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 Cast Metal Sculpture****3 Credit hours**

Several major art casting procedures will be studied and employed in the production of original sculptures. Emphasis will be placed on the lost wax process using ceramic shell molds.

Pre-req: ART 307 and (ART 298 or ART 299).**Grade Mode:** Normal Grading Mode**ART 332 Carved Sculpture****3 Credit hours**

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 307 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 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.

Pre-req: ART 307 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 335 Art Ed 2D-3D** 3 Credit hours
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.
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.
Pre-req: (ART 305 or ART 343) and (ART 298 or ART 299).
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.
Pre-req: (ART 305 or ART 343) and (ART 298 or ART 299).
Grade Mode: Normal Grading Mode
- ART 350 Watercolor Painting** 3 Credit hours
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.
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.
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 resins, egg tempera, acrylics and oils.
Pre-req: ART 214 or ART 217.
Grade Mode: Normal Grading Mode
- ART 360 Mixed Media** 3 Credit hours
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.
Pre-req: (ART 307 or ART 305) and (ART 298 or ART 299).
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.
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.
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.
Grade Mode: Normal Grading Mode
- ART 406 Figure Drawing** 3 Credit hours
Practice in drawing from the posed human figure.
Pre-req: ART 218.
Grade Mode: Normal Grading Mode
- ART 407 Tribal Arts** 3 Credit hours
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.
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.
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.

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.

Pre-req: ART 218 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.

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 324 or ART 325) and (ART 298 or ART 299).

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.

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 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.

Pre-req: ART 316 with a minimum grade of C.

Grade Mode: Normal Grading Mode

ART 442 Monumental Sculpture**3 Credit hours**

Emphasis will be on the planning and production of fountains, architectural reliefs and other large environmental sculptures.

Pre-req: ART 307 and (ART 298 or ART 299).

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.

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,

Pre-req: ART 298 or ART 299.

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.

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.

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.

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.

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.

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.

Pre-req: ART 308.

Grade Mode: Normal Grading Mode

ART 451 Advanced Ceramics**3 Credit hours**

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 316 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).

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.

Pre-req: ART 453 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.

Pre-req: ART 353 and (ART 298 or ART 299).

Grade Mode: Normal Grading Mode

ART 457 Figure Painting**3 Credit hours**

Painting the nude model using modern and classical methods.

Pre-req: ART 353 and (ART 298 or ART 299).

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.

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 or ART 299.

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.

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.

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.

Pre-req: ART 301 and (ART 298 or ART 299).

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.

Pre-req: ART 113 and ART 340.

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.

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.

Grade Mode: Normal Grading Mode

ART 472 Practicum	3 Credit hours	ART 487 Independent Study	1-4 Credit hours
To be used for learning activities that involve the application of previously learned processes, theories, systems or techniques.		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		Grade Mode: Normal Grading Mode	
ART 473 Practicum	3 Credit hours	ART 488 Independent Study	1-4 Credit hours
To be used for learning activities that involve the application of previously learned processes, theories, systems or techniques.		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		Grade Mode: Normal Grading Mode	
ART 475 Advanced Studio Sequence	3 Credit hours	ART 489 Graphic Design Portfolio	2 Credit hours
To be used to complete studio specialization and may be repeated. By permission only.		Pre-req: ART 316 with a minimum grade of C or AM 299 with a minimum grade of C.	
Grade Mode: Normal Grading Mode		Attributes: No Textbook Required	
ART 476 Advanced Studio Sequence	3 Credit hours	Grade Mode: Normal Grading Mode	
To be used to complete studio specialization and may be repeated. By permission only.		ART 490 Apprenticeship	1-3 Credit hours
Grade Mode: Normal Grading Mode		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.	
ART 477 Advanced Studio Sequence	3 Credit hours	Pre-req: ART 316 with a minimum grade of C.	
To be used to complete studio specialization and may be repeated. By permission only.		Attributes: No Textbook Required	
Attributes: No Textbook Required		Grade Mode: Normal Grading Mode	
Grade Mode: Normal Grading Mode		ART 491 Graphic Design Workshop	3 Credit hours
ART 478 Advanced Studio Sequence	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.	
To be used to complete studio specialization and may be repeated. By permission only.		Pre-req: ART 298 or ART 299.	
Attributes: No Textbook Required		Grade Mode: Normal Grading Mode	
Grade Mode: Normal Grading Mode		ART 497 Capstone Studio	3 Credit hours
ART 479 Advanced Studio Sequence	3 Credit hours	Students will research, plan and develop a substantial body of independently conceived artworks in consultation with studio art faculty.	
To be used to complete studio specialization and may be repeated. By permission only.		Pre-req: ART 390 with a minimum grade of C.	
Grade Mode: Normal Grading Mode		Grade Mode: Normal Grading Mode	
ART 480 Special Topics	1-4 Credit hours	ART 498 Senior Capstone Exhibition BFA	3 Credit hours
To be used for experimental courses. By permission only.		Students refine their creative visual productions and a supporting statement that culminate in a public exhibition.	
Attributes: No Textbook Required		Pre-req: ART 390 with a minimum grade of C.	
Grade Mode: Normal Grading Mode		Attributes: Capstone Course, No Textbook Required	
ART 481 Special Topics	1-4 Credit hours	Grade Mode: Normal Grading Mode	
To be used for experimental courses. By permission only.		ART 499 Senior Capstone Exhibition BA	1 Credit hour
Attributes: No Textbook Required		Students document and exhibit their production from courses completed during their senior year in their area (s) of concentration.	
Grade Mode: Normal Grading Mode		The exhibition should result from their academic as well as studio study.	
ART 482 Special Topics	1-4 Credit hours	Pre-req: ART 298 with a minimum grade of C or ART 299 with a minimum grade of C.	
To be used for experimental courses. By permission only.		Attributes: Capstone Course, No Textbook Required	
Grade Mode: Normal Grading Mode		Grade Mode: Credit/No Credit Grade Only	
ART 483 Special Topics	1-4 Credit hours		
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.			
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 within the major.			
Grade Mode: Normal Grading Mode			

Allied Arts, B.A.

Bachelor of Arts with a Major in Allied Arts or 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.

Foundations Review

After completing the required six foundation courses, students pursuing the Bachelor of Arts in Art or Education PreK-Adult are required to present a portfolio of work for review by the Art and Design faculty.

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

To do so, B.A. students must register for ART 299 Foundations Review: BA, before completing 21 credit hours in studio art courses including:

Code	Title	Credit Hours
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

Successful completion of ART 298 Foundations Review: BFA/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 and Design.

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.

Major

Allied Arts Major Requirements: 78-81 credit hours. A minimum of 120 credit hours is required for the degree.

Students in "Allied Arts" will declare a primary field of art or theatre and fulfill the emphasis area requirements for that field (51 credits). Students will also determine a secondary arts field of art, music, or theatre (may not duplicate their primary field) as their "allied" art and fulfill 27-30 credits in that area. With the assistance of an advisor/faculty mentor, students will create individualized secondary arts field curriculum plans based on the student's career goals. The curriculum for the secondary field must include a mixture of applied/performance skill courses and academic courses for the student to acquire the professional skills and learning experiences needed for future success. Students must meet the basic entrance requirements for the B.A. degree in that major for both their primary and their secondary arts field.

Code	Title	Credit Hours
	Emphasis Area	51
	Allied Arts Area	27-30
	Outside Electives	5-14
	Total Credit Hours	83-95

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 Allied Arts or 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.

Foundations Review

After completing the required six foundation courses, students pursuing the Bachelor of Arts in Art or Education PreK-Adult are required to present a portfolio of work for review by the Art and Design faculty.

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

To do so, B.A. students must register for ART 299 Foundations Review: BA, before completing 21 credit hours in studio art courses including:

Code	Title	Credit Hours
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

Successful completion of ART 298 Foundations Review: BFA/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 and Design.

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. 98)
- Visual Art and Design, Emphasis (p. 100)











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	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)	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	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. B.A. students must register for ART 499 Senior Capstone Exhibition BA.

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.) with majors in either Art or Allied Arts. The major in Art has tracks in Visual Art and Design and in Art History. Art History 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

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	0
ART 499 	Senior Capstone Exhibition BA	1
Studio Electives		
Select 12 credit hours of the following:		12
ART 301	Printmaking Processes	
ART 303	Surface Design	
ART 305	Ceramics	
ART 307	Sculpture	
ART 312	Typography	
ART 314	Graphic Design I	
ART 315	Intro to Photography	
ART 317	Illustration	
ART 318	Art/Design for Websites	
ART 343	Intro to Potter's Wheel	

ART 353	Beginning Painting I
ART 418	Advanced Drawing
ART 444	Papermaking/Bookbinding

Additional Studio Art Courses

Select 12-15 credit hours of 300 and 400 level art studio courses ¹12-15

Minor

Select 15-18 credit hours ² 15-18


Additional Non-Art Electives

Select 17-29 credit hours 17-29

Total Credit Hours 81-99













- ¹ Working in consultation with the Academic Advisor in Art and Design, students select 12-15 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		
UNI 100	Freshman First Class	1
Credit Hours		13
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	0
ART Studio Elective		3
Minor or Non-Art Elective		3
Minor or Non-Art Elective		3
Core II Humanities (WI)		3
Credit Hours		15

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 497	Capstone Studio (or 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
Writing Intensive		3
Credit Hours		16

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		3
Credit Hours		15
Total Credit Hours		120

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, but students are encouraged to bring examples of their work to the initial conference.

 - General Education Course

 - 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 (includes ART 214 Foundations: Grid/Chroma, ART 215 Foundations: Form/Space, ART 217 Foundations: Record/Layer, ART 218 Foundations: Site/Matrix, and ART 219 Foundations: Frame/Time). 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 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.

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 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 298	Foundations Review: BFA	1
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		
Select four of the following:		12
ART 301	Printmaking Processes	
ART 303	Surface Design	
ART 305	Ceramics	
ART 307	Sculpture	
ART 308	Weaving	

ART 313	Installation Art With Fibers
ART 315	Intro to Photography
ART 343	Intro to Potter's Wheel
ART 353	Beginning Painting I
ART 418	Advanced Drawing
ART 444	Papermaking/Bookbinding

Areas of Emphasis in Visual Arts

Students will complete 21 credit hours in a studio area of emphasis. ¹	21
Total Credit Hours	73

- 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. With the approval of the director, students may substitute up to 6 credit hours chosen from any courses offered by the School of Art and Design to complete the emphasis area requirement.

Graphic Design, BFA

Code	Title	Credit Hours
Art 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 298	Foundations Review: BFA	1
ART 389	20th Century Art	3
or ART 464	History of Modern Design	
ART 390	Professional Practice	3
ART 489	Graphic Design Portfolio	2
ART 490	Apprenticeship	1-3
ART 498 🌳	Senior Capstone Exhibition BFA	3
Art history elective		3
Electives		
Select four of the following:		12
ART 301	Printmaking Processes	
ART 303	Surface Design	
ART 305	Ceramics	
ART 307	Sculpture	
ART 308	Weaving	
ART 313	Installation Art With Fibers	
ART 315	Intro to Photography	
ART 343	Intro to Potter's Wheel	
ART 353	Beginning Painting I	
ART 418	Advanced Drawing	
ART 444	Papermaking/Bookbinding	
Areas of Emphasis in Visual Arts		

Students will complete 21 credit hours in a studio area of emphasis. ¹	21
Total Credit Hours	73-75


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. With the approval of the director, students may substitute up to 6 credit hours chosen from any courses offered by the School of Art and Design to complete the emphasis area requirement.

Areas of Emphasis

- Ceramics, Emphasis (p. 104)
- Fibers, Emphasis (p. 106)
- Graphic Design, Emphasis (p. 107)
- Painting, Emphasis (p. 109)
- Photography, Emphasis (p. 111)
- Printmaking, Emphasis (p. 113)
- Sculpture, Emphasis (p. 115)







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		
<i>Core 1: Critical Thinking</i>		
FYS 100	First Yr Sem Critical Thinking	3
MTH 121 	Concepts and Applications (CT)	3
	Critical Thinking	3
<i>Core 2</i>		
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
<i>Additional University Requirements</i>		
	Writing Intensive	3
	Writing Intensive	3
	Multicultural/International	3
	Capstone	3

Major Requirements		
<i>Art Foundation and Visual Art Courses</i>		
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
ART 343	Intro to Potter's Wheel	3
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 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
Total Credit Hours		131

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, includes:

Code	Title	Credit Hours
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

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	Ceramics	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 343	Intro to Potter's Wheel	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 447	Combined Ceramic Process	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	20th Century Art	3
or ART 464	or History of Modern Design	
ART 390 	Professional Practice	3
Core II Fine Arts		3
Credit Hours		15

Fourth Year

First Semester

ART 449	Ceramic Sculpture	3
or ART 451	or Advanced Ceramics	
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
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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		
<i>Core 1: Critical Thinking</i>		
FYS 100	First Yr Sem Critical Thinking	3
MTH 121 	Concepts and Applications (CT)	3
	Critical Thinking	3
<i>Core 2</i>		
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
<i>Additional University Requirements</i>		
	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 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
Total Credit Hours		131

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, includes:

Code	Title	Credit Hours
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


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		
<i>Core 1: Critical Thinking</i>		
FYS 100	First Yr Sem Critical Thinking	3
MTH 121 	Concepts and Applications (CT)	3
	Critical Thinking	3
<i>Core 2</i>		
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
<i>Additional University Requirements</i>		
	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
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	3

Elective Outside of Major	3
Elective Outside of Major	3
Elective Outside of Major	3
Total Credit Hours	131-133

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, includes:

Code	Title	Credit Hours
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

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	Illustration	3
or ART 318	or Art/Design for Websites	
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	20th Century Art	3
or ART 464	or History of Modern Design	
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		4
ART 300/400 Level Emphasis Area		3
Credit Hours		16
Total Credit Hours		121-123







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		
<i>Core 1: Critical Thinking</i>		
FYS 100	First Yr Sem Critical Thinking	3
MTH 121 	Concepts and Applications (CT)	3
Critical Thinking		3
<i>Core 2</i>		
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
<i>Additional University Requirements</i>	
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 456 Painting Acrylic & Oil	3
ART 457 Figure 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 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
Total Credit Hours	131

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, includes:

Code	Title	Credit Hours
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

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 456	Painting Acrylic & Oil	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 300/400 Level Emphasis Area		3
ART 457	Figure Painting	3
Art Studio Elective		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	20th Century Art	3
or ART 464	or History of Modern Design	
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
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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 315 	Intro to Photography	3
ART 325	Image Visualization: Digital	3
ART 423	Photographic Lighting	3
ART 324	Image Visual: Darkroom	3
ART 426	19th Century Photo Processes	3
ART 427	Photo Portfolio	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

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, includes:


Code	Title	Credit Hours
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

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 324 Image Visual: Darkroom	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 426 19th Century Photo Processes	3
ART 389 20th Century Art	3
or ART 464 or History of Modern Design	
ART 390 Professional Practice	3
Core II Fine Arts	3
Credit Hours	15
Fourth Year	
First Semester	
ART 427 Photo Portfolio	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		
<i>Core 1: Critical Thinking</i>		
FYS 100	First Yr Sem Critical Thinking	3
MTH 121	Concepts and Applications (CT)	3
	Critical Thinking	3
<i>Core 2</i>		
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
<i>Additional University Requirements</i>		
	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 301	Printmaking Processes	3
ART 320	Silk Screen Printmaking	3
ART 302	Relief Printmaking	3
ART 444	Papermaking/Bookbinding	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
Total Credit Hours	131

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, includes:

Code	Title	Credit Hours
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

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 300/400 Level Emphasis Area		3
ART 302	Relief Printmaking	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 444 Papermaking/Bookbinding	3
ART 389 20th Century Art or ART 464 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 Humanities (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		
<i>Core 1: Critical Thinking</i>		
FYS 100	First Yr Sem Critical Thinking	3
MTH 121	Concepts and Applications (CT)	3
	Critical Thinking	3
<i>Core 2</i>		
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 301	🎓 Printmaking Processes	3
ART 319	Wood Fundamentals: Furniture	3
ART 332	Carved Sculpture	3
ART 333	Welded Sculpture	3
ART 442	Monumental Sculpture	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

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, includes:

Code	Title	Credit Hours
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

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 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 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 332	Carved Sculpture	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	20th Century Art	3
or ART 464	or History of Modern Design	
ART 390 	Professional Practice	3
Core II Fine Arts		3
Credit Hours		15

Fourth Year

First Semester

ART 442	Monumental 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

School of Journalism and Mass Communication

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 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. 122)
- Advertising/Public Relations, Major (p. 122)
- Journalism, Major (p. 125)
- Journalism, Minor (p. 131)
- Media Production, Major (p. 131)
- Media Studies, Minor (p. 135)
- Public Relations, Minor (p. 135)

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.

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.

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 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 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.

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)

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: 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.

Pre-req: JMC 241 with a minimum grade of C.

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)

Grade Mode: Normal Grading Mode

JMC 273 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)

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 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.

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 201 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.

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: 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.

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.

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.

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 broadcasting; 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 230 or JMC 360 or ART 315.

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.

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.

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.

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)

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, technological developments, social pressures, impact of the Internet and other concerns.

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.

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)

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.

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 emphasis on public relations 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 application 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)

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

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

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.

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.

Pre-req: JMC 241.

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.

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 examining 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.

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.

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.

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.

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.

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)

Pre-req: JMC 490.

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. 122)
- Public Relations, Emphasis (p. 123)

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		
<i>Core 1: Critical Thinking</i>		
FYS 100	First Yr Sem Critical Thinking	3
Critical Thinking		3
Critical Thinking		3
<i>Core 2</i>		
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
<i>Additional University Requirements</i>		
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 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
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)	
Core II Humanities (WI)		3
Literature Elective		3
History Elective (M/I)		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		
<i>Core 1: Critical Thinking</i>		
FYS 100	First Yr Sem Critical Thinking	3
Critical Thinking		3
Critical Thinking		3
<i>Core 2</i>		
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
<i>Additional University Requirements</i>		
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)	
Multicultural		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
Core II Humanities (WI)		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		4
Non-JMC Elective		3
Credit Hours		13
Total Credit Hours		121

¹ Not JMC 436 International Mass Comm² JMC 490 Jrn & Mass Comm Internship I recommended summer between semesters 6 & 7 (3 hours).

Journalism, Major

Areas of Emphasis

- Broadcast, Emphasis (p. 125)
- Multimedia, Emphasis (p. 127)
- Sports, Emphasis (p. 129)

Broadcast, 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		
<i>Core 1: Critical Thinking</i>		
FYS 100	First Yr Sem Critical Thinking	3
	Critical Thinking	3
	Critical Thinking	3
<i>Core 2</i>		
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
<i>Additional University Requirements</i>		
	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
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. 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 	Am Natl Govt & Politics (CT)	3
or PSC 202 	or State and Local Government	
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
Core II Humanities (WI)		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		4
Credit Hours		13
Total Credit Hours		121

¹ Not JMC 436 International Mass Comm² JMC 490 Jrn & Mass Comm Internship I recommended summer between semesters 6 & 7 (3 hours).

Multimedia, 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
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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 (WI)		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 Comm² JMC 490 Jrn & Mass Comm Internship I recommended summer between semesters 6 & 7 (3 hours).

Sports, 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		
<i>Core 1: Critical Thinking</i>		
FYS 100	First Yr Sem Critical Thinking	3
Critical Thinking		3
Critical Thinking		3
<i>Core 2</i>		
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

International¹ 3


History Elective 3

Literature Elective 3

Literature Elective 3

JMC 101   Media Literacy 3JMC 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

Non-JMC elective 2

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
Core II Humanities (WI)		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	AD-PR Principles and Ethics	3
or JMC 390	or Media Sales & Underwriting	
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
Non-JMC Elective		1
Credit Hours		13
Total Credit Hours		121

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. 131)
- Video Production, Emphasis (p. 133)

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		
<i>Core 1: Critical Thinking</i>		
FYS 100	First Yr Sem Critical Thinking	3
Critical Thinking		3
Critical Thinking		3
<i>Core 2</i>		
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
<i>Additional University Requirements</i>		
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
Core II Humanities (WI)		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 Contemp Issues Radio-TV or JMC 455 or Race Gender & Mass Media	3
JMC Elective 300/400	2
Literature Elective	3
Non-JMC elective 300/400	1
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
MKT 231 Principles of Selling	3
JMC Elective 300/400	3
Non-JMC elective 300/400	3
Credit Hours	12
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).







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		
<i>Core 1: Critical Thinking</i>		
FYS 100	First Yr Sem Critical Thinking	3
	Critical Thinking	3
	Critical Thinking	3
<i>Core 2</i>		
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
<i>Additional University Requirements</i>	
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	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. 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
ART 454	Motion Design II	3
Any Modern Language		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
Non-JMC Elective		2
JMC 490	Jrn & Mass Comm Internship I (if not taken during summer) ¹	3
Credit Hours		17

Second Semester

JMC Elective 300/400		3
JMC 475	Documentary Journalism	3
AM 499 	Senior Capstone Project	3

History Elective	3
Non-JMC Elective 300/400	1
Credit Hours	13
Total Credit Hours	121

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

- Music, B.A. (p. 144)
- Music, B.F.A. (p. 147)
- Music, Minor (p. 158)

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.

Attributes: No Textbook Required

Grade Mode: Credit/No Credit Grade Only

MUS 101 Basic Musicianship 3 Credit hours

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.

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.

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 D.

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-requisites: 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.

Pre-req: MUS 101 with a minimum grade of C.

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 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. Grade Mode: Normal Grading Mode MUS 178B Class Voice 1 Credit hour Classes for voice minors and electives designed for beginners. 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. Pre-req: MUS 101 with a minimum grade of C. Co-req: MUS 111 Grade Mode: Normal Grading Mode	MUS 179A Class Piano 1 Credit hour 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. 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 179C Class Piano 1 Credit hour 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. 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: Fine Arts, Multicultural 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 142H 🌍 Music in Society Honors 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. 3 credits. Pre-req: Admitted Honors College with a score of 1. Attributes: Fine Arts, Multicultural 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 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 university students and does not require prior musical training. 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 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. 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 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. 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 Attributes: No Textbook Required Grade Mode: Normal Grading Mode	1-2 Credit hours	MUS 206 Opera Workshop 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	1 Credit hour
MUS 191 Violin Attributes: No Textbook Required Grade Mode: Normal Grading Mode	1-2 Credit hours	MUS 207 Chamber Choir 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	1 Credit hour
MUS 192 Viola Attributes: No Textbook Required Grade Mode: Normal Grading Mode	1-2 Credit hours	MUS 208 Orchestra 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	1 Credit hour
MUS 193 Cello Attributes: No Textbook Required Grade Mode: Normal Grading Mode	1-2 Credit hours	MUS 210 🌱 Intro to Electronic Music (CT) 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, Fine Arts Grade Mode: Normal Grading Mode	3 Credit hours
MUS 194 String Bass Attributes: No Textbook Required Grade Mode: Normal Grading Mode	1-2 Credit hours	MUS 211 Advanced Music Theory I 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	2 Credit hours
MUS 195 Piano Attributes: No Textbook Required Grade Mode: Normal Grading Mode	1-2 Credit hours	MUS 212 Advanced Music Theory II 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	2 Credit hours
MUS 196 Voice Attributes: No Textbook Required Grade Mode: Normal Grading Mode	1-2 Credit hours	MUS 213 Adv Aural Skills I 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	2 Credit hours
MUS 197 Organ Attributes: No Textbook Required Grade Mode: Normal Grading Mode	1-2 Credit hours		
MUS 198 Percussion Attributes: No Textbook Required Grade Mode: Normal Grading Mode	1-2 Credit hours		
MUS 199 Guitar Attributes: No Textbook Required Grade Mode: Normal Grading Mode	1-2 Credit hours		
MUS 200 🌱 Introduction to World Music 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: Fine Arts, Multicultural Grade Mode: Normal Grading Mode	3 Credit hours		
MUS 203 Choral Union 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	1 Credit hour		
MUS 204 University Chorus 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	1 Credit hour		
MUS 205 A Cappella Ensemble 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	1 Credit hour		

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)

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

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 and MUS 114.

Grade Mode: Normal Grading Mode

MUS 219 Digital Recording Techniques**2 Credit hours**

Concepts, implementation, and utilization 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.

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.

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.

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

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

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)

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.

Attributes: No Textbook Required

Grade Mode: Normal Grading Mode

MUS 250 Survey of Jazz**3 Credit hours**

A survey 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.

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.

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	MUS 279B Jazz Piano Class	1 Credit hour
Attributes: No Textbook Required		Class instruction progressing from beginner to advanced.	
Grade Mode: Normal Grading Mode		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.)	
MUS 258 Brass Ensemble	1 Credit hour	Grade Mode: Normal Grading Mode	
Attributes: No Textbook Required		MUS 279C Jazz Piano Class	1 Credit hour
Grade Mode: Normal Grading Mode		Class instruction progressing from beginner to advanced.	
MUS 259 Jazz Ensemble	1 Credit hour	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.)	
Attributes: No Textbook Required		Grade Mode: Normal Grading Mode	
Grade Mode: Normal Grading Mode		MUS 279D Jazz Piano Class	1 Credit hour
MUS 260 Jazz Improv Ensemble	1 Credit hour	Class instruction progressing from beginner to advanced.	
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.		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.)	
Attributes: No Textbook Required		Grade Mode: Normal Grading Mode	
Grade Mode: Normal Grading Mode		MUS 280 Special Topics	1-4 Credit hours
MUS 261 String Techniques	1 Credit hour	Grade Mode: Normal Grading Mode	
Grade Mode: Normal Grading Mode		MUS 281 Special Topics	1-4 Credit hours
MUS 262 Woodwind Techniques	1 Credit hour	Grade Mode: Normal Grading Mode	
Grade Mode: Normal Grading Mode		MUS 282 Special Topics	1-4 Credit hours
MUS 263 Brass Techniques	1 Credit hour	Grade Mode: Normal Grading Mode	
Grade Mode: Normal Grading Mode		MUS 283 Special Topics	1-4 Credit hours
MUS 264 Percussion Techniques	1 Credit hour	Grade Mode: Normal Grading Mode	
Grade Mode: Normal Grading Mode		MUS 290 Music History to 1750	3 Credit hours
MUS 265 Symphonic Band	1 Credit hour	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	
Attributes: No Textbook Required		Pre-req: MUS 211 with a minimum grade of C and MUS 213 with a minimum grade of C.	
Grade Mode: Normal Grading Mode		Grade Mode: Normal Grading Mode	
MUS 266 Marching Thunder	1 Credit hour	MUS 301 Analysis	3 Credit hours
Attributes: No Textbook Required		Analysis of music from the 18th through 20th centuries using general methodology, set and serial theory.	
Grade Mode: Normal Grading Mode		Pre-req: MUS 212 with a minimum grade of C and MUS 214 with a minimum grade of C.	
MUS 267 Wind Symphony	1 Credit hour	Grade Mode: Normal Grading Mode	
Attributes: No Textbook Required		MUS 302 Advanced Analysis	2 Credit hours
Grade Mode: Normal Grading Mode		Analysis of musical works from the late 19th century through the present era using sight and sound.	
MUS 268 Sixth Man Band	1 Credit hour	Pre-req: MUS 301 with a minimum grade of C.	
Attributes: No Textbook Required		Grade Mode: Normal Grading Mode	
Grade Mode: Normal Grading Mode		MUS 304 Styles	2 Credit hours
MUS 269 Contemporary Music Ens	1 Credit hour	An investigation of the distinguishing characteristics of the music of major composers by the study, dissection and comparison of major works.	
Performance of contemporary music in various media. May be repeated for credit. Counts towards improvisation requirement.		Pre-req: MUS 301 with a minimum grade of C and MUS 361 with a minimum grade of C.	
Grade Mode: Normal Grading Mode		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.			
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.)			
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.

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.

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.

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.

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)

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

Pre-req: MUS 217 with a minimum grade of C.

Grade Mode: Normal Grading Mode

MUS 327 Intro to Music Business**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

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-Caribbean 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)

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.

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)

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.

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

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	MUS 387 Trumpet	1-2 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		Attributes: No Textbook Required	
Pre-req: MUS 360 with a minimum grade of C.		Grade Mode: Normal Grading Mode	
Grade Mode: Normal Grading Mode		MUS 388 Trombone	1-2 Credit hours
MUS 371 African Drum & Dance Ens	1 Credit hour	Attributes: No Textbook Required	
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 university students and does not require prior musical training.		Grade Mode: Normal Grading Mode	
Attributes: No Textbook Required		MUS 389 Euphonium	1-2 Credit hours
Grade Mode: Normal Grading Mode		Attributes: No Textbook Required	
MUS 372 Fife and Drum Corps	1 Credit hour	Grade Mode: Normal Grading Mode	
Performing, marching, uniformed ensemble devoted to the music of the American Revolution and Chief Justice John Marshall. Instruments featured include fifes and drums.		MUS 390 Tuba	1-2 Credit hours
Attributes: No Textbook Required		Attributes: No Textbook Required	
Grade Mode: Normal Grading Mode		Grade Mode: Normal Grading Mode	
MUS 374 Irish Ceili Band	1 Credit hour	MUS 391 Violin	1-2 Credit hours
Grade Mode: Normal Grading Mode		Attributes: No Textbook Required	
MUS 376 Recital	1 Credit hour	Grade Mode: Normal Grading Mode	
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		MUS 392 Viola	1-2 Credit hours
Attributes: No Textbook Required		Attributes: No Textbook Required	
Grade Mode: Normal Grading Mode		Grade Mode: Normal Grading Mode	
MUS 379 Advanced Class Piano	1 Credit hour	MUS 393 Cello	1-2 Credit hours
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.		Attributes: No Textbook Required	
Pre-req: MUS 179D with a minimum grade of C.		Grade Mode: Normal Grading Mode	
Grade Mode: Normal Grading Mode		MUS 394 String Bass	1-2 Credit hours
MUS 380 Applied Composition	2 Credit hours	Attributes: No Textbook Required	
Pre-req: MUS 212 with a minimum grade of C and MUS 214 with a minimum grade of C.		Grade Mode: Normal Grading Mode	
Attributes: No Textbook Required		MUS 395 Piano	1-2 Credit hours
Grade Mode: Normal Grading Mode		Attributes: No Textbook Required	
MUS 381 Saxophone	1-2 Credit hours	Grade Mode: Normal Grading Mode	
Attributes: No Textbook Required		MUS 396 Voice	1-2 Credit hours
Grade Mode: Normal Grading Mode		Attributes: No Textbook Required	
MUS 382 Flute	1-2 Credit hours	Grade Mode: Normal Grading Mode	
Attributes: No Textbook Required		MUS 397 Organ	1-2 Credit hours
Grade Mode: Normal Grading Mode		Attributes: No Textbook Required	
MUS 383 Oboe	1-2 Credit hours	Grade Mode: Normal Grading Mode	
Attributes: No Textbook Required		MUS 398 Percussion	1-2 Credit hours
Grade Mode: Normal Grading Mode		Attributes: No Textbook Required	
MUS 384 Clarinet	1-2 Credit hours	Grade Mode: Normal Grading Mode	
Attributes: No Textbook Required		MUS 399 Guitar	1-2 Credit hours
Grade Mode: Normal Grading Mode		Attributes: No Textbook Required	
MUS 385 Bassoon	1-2 Credit hours	Grade Mode: Normal Grading Mode	
Attributes: No Textbook Required		MUS 400 Collaborative Composition	2 Credit hours
Grade Mode: Normal Grading Mode		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)	
MUS 386 French Horn	1-2 Credit hours	Grade Mode: Normal Grading Mode	
Attributes: No Textbook Required		MUS 401 Research in Music	3 Credit hours
Grade Mode: Normal Grading Mode		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.
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.
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.
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.
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.
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 Commerical Music Business** **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.
Grade Mode: Normal Grading Mode
- MUS 432 Electronic Music Comp** **2 Credit hours**
The theory and practice of the use of electronic mediums of composition. Synthesizer and tape recording techniques will be emphasized. Primarily for music majors.
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.
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	MUS 467 Wind Symphony	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.		Attributes: No Textbook Required	
Attributes: No Textbook Required		Grade Mode: Normal Grading Mode	
MUS 450 Guitar Literature II	2 Credit hours	MUS 468 Sixth Man Band	1 Credit hour
A survey of the literature for the guitar during the twentieth and twenty-first centuries. (PR: Permission)		Attributes: No Textbook Required	
Grade Mode: Normal Grading Mode		Grade Mode: Normal Grading Mode	
MUS 451 Guitar Pedagogy II	2 Credit hours	MUS 469 Contemporary Music Ens	1 Credit hour
A survey of guitar pedagogy literature, and a practicum in teaching classical guitar.		Performance of contemporary music in various media. May be repeated for credit. Counts towards improvisation requirement.	
Grade Mode: Normal Grading Mode		Grade Mode: Normal Grading Mode	
MUS 452 Cello Ensemble	1 Credit hour	MUS 470 Musical Prods Practicum	1 Credit hour
Cello students will rehearse and perform works from the major literature for cello ensemble.		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.	
Attributes: No Textbook Required		Grade Mode: Normal Grading Mode	
Grade Mode: Normal Grading Mode		MUS 476 Senior Recital	0 Credit hours
MUS 453 Guitar Ensemble	1 Credit hour	The culminating recital for applied music study in the principal applied area.	
Attributes: No Textbook Required		Pre-req: MUS 376 with a minimum grade of C.	
Grade Mode: Normal Grading Mode		Grade Mode: Credit/No Credit Grade Only	
MUS 454 Flute Ensemble	1 Credit hour	MUS 479 Applied Pedagogy Lab	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.		Practical application of concepts, methodology, and materials covered to demonstrate efficient and effective teaching in the applied area.	
Attributes: No Textbook Required		Grade Mode: Normal Grading Mode	
Grade Mode: Normal Grading Mode		MUS 480 Special Topics	1-4 Credit hours
MUS 455 String Ensemble	1 Credit hour	Grade Mode: Normal Grading Mode	
Attributes: No Textbook Required		MUS 481 Special Topics	1-4 Credit hours
Grade Mode: Normal Grading Mode		Grade Mode: Normal Grading Mode	
MUS 456 Woodwind Ensemble	1 Credit hour	MUS 482 Special Topics	1-4 Credit hours
Attributes: No Textbook Required		Grade Mode: Normal Grading Mode	
Grade Mode: Normal Grading Mode		MUS 483 Special Topics	1-4 Credit hours
MUS 457 Percussion Ensemble	1 Credit hour	Grade Mode: Normal Grading Mode	
Attributes: No Textbook Required		MUS 485 Independent Study	1-4 Credit hours
Grade Mode: Normal Grading Mode		Attributes: No Textbook Required	
MUS 458 Brass Ensemble	1 Credit hour	Grade Mode: Normal Grading Mode	
Attributes: No Textbook Required		MUS 486 Independent Study	1-4 Credit hours
Grade Mode: Normal Grading Mode		Attributes: No Textbook Required	
MUS 459 Jazz Ensemble	1 Credit hour	Grade Mode: Normal Grading Mode	
Attributes: No Textbook Required		MUS 487 Independent Study	1-4 Credit hours
Grade Mode: Normal Grading Mode		Attributes: No Textbook Required	
MUS 460 Jazz Improv Ensemble	1 Credit hour	Grade Mode: Normal Grading Mode	
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.		MUS 488 Independent Study	1-4 Credit hours
Attributes: No Textbook Required		Attributes: No Textbook Required	
Grade Mode: Normal Grading Mode		Grade Mode: Normal Grading Mode	
MUS 465 Symphonic Band	1 Credit hour	MUS 494 Workshop	1-4 Credit hours
Attributes: No Textbook Required		Grade Mode: Normal Grading Mode	
Grade Mode: Normal Grading Mode		MUS 495 Music Internship	1-4 Credit hours
MUS 466 Marching Thunder	1 Credit hour	Practical synthesis and application of knowledge and skills gained during the student's course of study.	
Attributes: No Textbook Required		Pre-req: MUS 376.	
Grade Mode: Normal Grading Mode		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.

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

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	Survey 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
Non-Music Elective ¹		3
Non-Music Elective ¹		4
Non-Music Elective ¹		4
Non-Music Elective ¹		4
Non-Music 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 Non-Music Electives should account for 17-29 hours. 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 (p. 146)
- General, Emphasis (p. 146)
- Music History, Emphasis (p. 146)
- Pedagogy, Emphasis (p. 147)
- Vocal Jazz, Emphasis (p. 147)

🌱 - General Education Course

🎓 - 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	Music History to 1750	3
or MUS 250	or Survey of Jazz	
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 	Music History 1730 - 1900	3
or MUS 361	or Music History Since 1900	
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

Commercial 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

Code	Title	Credit Hours
MUS 219	Digital Recording Techniques	2
MUS 227	History of Popular Music	3
MUS 327	Intro to Music Business	2
MUS 427	Commerical Music Business	2
MUS 495	Music Internship	1-4
Select one of the following College of Business courses:		3
ENT 220	Creativity & Innovation	
MGT 320	Principles of Management	
MKT 340	MKT Concepts and Applications	
Other approved course		
Select three credits of Music Electives		3
Total Credit Hours		16-19


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.

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	Survey of Jazz	
MUS 290	Music History to 1750	
MUS 360	Music History 1730 - 1900 (not selected above)	3
or MUS 361	Music History Since 1900	
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, 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/>).

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.

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.

Area of Emphasis

- Jazz Studies, Emphasis (p. 149)
- Multidisciplinary Studies, Emphasis (p. 151)
- Performance, Emphasis (p. 154)
- Theory and Composition, Emphasis (p. 156)

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		
<i>Core 1: Critical Thinking</i>		
FYS 100	First Yr Sem Critical Thinking	3
MTH 121 	Concepts and Applications (CT)	3
	Critical Thinking	3
<i>Core 2</i>		
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
<i>Additional University Requirements</i>		
	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	Survey 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	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.

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
CT Designated Course (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	Survey 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		4
Credit Hours		14-15
Total Credit Hours		122-123











Multidisciplinary 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		
<i>Core 1: Critical Thinking</i>		
FYS 100	First Yr Sem Critical Thinking	3
MTH 121 	Concepts and Applications (CT)	3
	Critical Thinking	3
<i>Core 2</i>		
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
<i>Additional University Requirements</i>		
	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	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.

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
Non-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 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		3
Emphasis Outside of Music		4


Core II Social Science (WI)	3
Credit Hours	15-16
Total Credit Hours	125-126

Performance, 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

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Code	Title	Credit Hours
Core Curriculum		
<i>Core 1: Critical Thinking</i>		
FYS 100	First Yr Sem Critical Thinking	3
MTH 121 	Concepts and Applications (CT)	3
	Critical Thinking	3
<i>Core 2</i>		
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
<i>Additional University Requirements</i>		
	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

 - 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.

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

Music Elective	3
Ensemble 400 Level	1
Applied 300	2
Credit Hours	15
Second Semester	
MUS 100 Applied Music Laboratory	0
MUS 497 🌿 Capstone Project in Music	1-2
Non-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	123-124

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

🎓 - 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		
<i>Core 1: Critical Thinking</i>		
FYS 100	First Yr Sem Critical Thinking	3
MTH 121 🌿	Concepts and Applications (CT)	3
Critical Thinking		3
<i>Core 2</i>		
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
<i>Additional University Requirements</i>		
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
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	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 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	Electronic Music Comp	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


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

 - 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 	Analysis	3
or MUS 412	or Jazz Pedagogy and Conducting	
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	Electronic Music Comp	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.

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

- Allied Arts, B.A. (p. 161)
- Dance, Minor (p. 161)
- Theatre, B.A. (p. 162)
- Theatre, B.F.A. (p. 163)
- Theatre, Minor (p. 166)

Courses

🌱 - General Education Course

THE 101 Introduction to Theatre

Fundamentals of theatre arts.

Grade Mode: Normal Grading Mode

3 Credit hours

- 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.
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: 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: 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.
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.
Grade Mode: Normal Grading Mode
- THE 221 Stage Voice I: Foundations** **3 Credit hours**
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.)
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.
Pre-req: THE 222.
Grade Mode: Normal Grading Mode
- THE 240 Stage Lighting I** **4 Credit hours**
This introductory course exposes students to elementary principles, techniques, terminology and application used by stage electricians to execute theatrical lighting designs. Combined lecture and laboratory instruction links theory with practice. (PR: THE 150)
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.
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.
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.
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.
Pre-req: THE 101 or THE 111 or THE 112.
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 and THE 245 and THE 250.
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.
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.)
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.
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.)
Pre-req: THE 222.
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.

Pre-req: THE 250.**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.

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.

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.

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.)

Pre-req: THE 222.**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.

Pre-req: THE 295.**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.

Pre-req: THE 101.**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.

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.

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.

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.

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.

Pre-req: THE 295.**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.

Pre-req: THE 295.**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.

Pre-req: THE 295.**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.

Pre-req: THE 295.**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.**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.

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.

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.

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.**Attributes:** Capstone Course**Grade Mode:** Normal Grading Mode

Allied Arts, B.A.

Bachelor of Arts with a Major in Allied Arts or 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

Allied Arts Major Requirements 78-81 credit hours. A minimum of 120 credit hours are required for the degree.

Students in "Allied Arts" will declare primary field of art or theatre and fulfill the emphasis area requirements for that field (51 credits). Students will also determine a secondary arts field of art, music, or theatre (may not duplicate their primary field) as their "allied" art and fulfill 27-30 credits in that area. With the assistance of an advisor/faculty mentor, students will create individualized secondary arts field curriculum plans based on the their career goals. The curriculum for the secondary field must include a mixture of applied/performance skill and academic courses for the student to acquire the professional skills and learning experiences needed for future success. Students must meet the basic entrance requirements for the B.A. degree in that major for both their primary and their secondary arts field.

Code	Title	Credit Hours
	Emphasis Area	51
	Allied Arts Area	27-30
	Outside Electives	5-14
	Total Credit Hours	83-95

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 or THE 270	Practicum Theatre Practicum	1
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 Allied Arts or 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		
<i>Core 1: Critical Thinking</i>		
FYS 100	First Yr Sem Critical Thinking	3
	Critical Thinking	3
	Critical Thinking	3
<i>Core 2</i>		
ENG 101	 Beginning Composition	3

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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 295	Sophomore Review	0
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
Elective Outside of Major	3
Minor Requirement	3
Writing Intensive	3
Credit Hours	15

Total Credit Hours 123

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 who have successfully completed:

Code	Title	Credit Hours
THE 101	Introduction to Theatre	3
THE 201	Crit Analysis Theatre Lit	3
THE 240	Stage Lighting I	4
THE 245	Intro to Technical Theatre	4
THE 250	Introduction to Costuming	4

and a minimum of 9 credit hours from:

Code	Title	Credit Hours
THE 220	Stage Movement I: Foundations	3
THE 221	Stage Voice I: Foundations	3
THE 222	Acting I: Foundations	3
THE 330	Drafting & Rendering	3

and a minimum of 30 credit hours overall, are required to enroll in THE 295 Sophomore Review. This course consists of an interview and either a portfolio review (B.F.A. Production) or an audition (B.F.A. Performance). Students must pass Sophomore Review with a minimum score of 75% in order to be eligible for invitation to the B.F.A. program. Students who fail to successfully complete the Sophomore Review are allowed two additional opportunities to complete the requirement. Review dates are announced the first week of the fall and spring semesters. Specifics with regard to the portfolio review, audition, format of the review and evaluation rubric can be obtained in the School of Theatre office or from the student's faculty advisor.

- 4. 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.

- 5. 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.
- 6. Forty (40) credit hours must be earned in courses numbered 300-499.
- 7. No course in the major requirements for graduation may be taken Credit/Non-Credit unless the course is so specified.
- 8. 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, Emphasis (p. 164)
- Production, Emphasis (p. 166)







Performance, 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 295	Sophomore Review	0
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
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 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 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. 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 who have successfully completed:

Code	Title	Credit Hours
THE 101	Introduction to Theatre	3
THE 201	Crit Analysis Theatre Lit	3
THE 240	Stage Lighting I	4
THE 245	Intro to Technical Theatre	4
THE 250	Introduction to Costuming	4

and a minimum of 9 credit hours from:

Code	Title	Credit Hours
THE 220	Stage Movement I: Foundations	3
THE 221	Stage Voice I: Foundations	3
THE 222	Acting I: Foundations	3
THE 330	Drafting & Rendering	3

and a minimum of 30 credit hours overall, are required to enroll in THE 295 Sophomore Review. Students must pass Sophomore Review with a minimum score of 75% in order to be eligible for invitation to the B.F.A. program. Students who fail to successfully complete the Sophomore Review are allowed two additional opportunities to complete the requirement.

- 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 credentials, 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 295	Sophomore Review	0
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, Emphasis Major

Code	Title	Credit Hours
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
Approved Theatre Electives		15
Total Credit Hours		30

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. Avinandan Mukherjee, Dean;

Website: <http://www.marshall.edu/cob> (<http://www.marshall.edu/cob/>)

Dr. Jeffrey Archambault, Associate Dean for Academic Programs

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 provide current and comprehensive undergraduate and graduate education and be recognized as a major contributor to the region's economic development.

Mission Statement

The Lewis College of Business prepares students to become successful business professionals advancing economic development throughout West Virginia and beyond. The College provides a high quality business education in a supportive learning environment that encompasses exemplary teaching, service to our communities, and a faculty committed to applied and pedagogical scholarship.

Strategic Priorities

High-Demand Curriculum

- Health Care Management
- Entrepreneurship
- Energy Management
- Business Analytics
- Supply Chain

Desired Skill Set

- Agility & 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

3+2 Program

The 3+2 Program offered by the Lewis College of Business allows students to complete both their Bachelor of Business Administration and their Master of Business Administration or Master of Science in Accountancy, Health Care Administration, or Human Resource Management in a total of five academic years. Students enrolled in the program save time and money.

Students that meet the requirements that follow may enroll in up to nine hours of graduate coursework while still a senior. Students are allowed to double-count up to nine hours of graduate level courses from their graduate degree toward their bachelor's degree requirements. Three 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) and six hours may count as free electives.

The 3+2 Program is especially attractive for accounting majors, who can enroll in the program to meet the requirements for the M.B.A. or M.S. while completing the 150 hours required by the state of West Virginia to become a CPA.

Departments

- Department of Accountancy and Legal Environment (p. 172)
- Department of Finance, Economics and International Business (p. 176)
- Department of Management and Health Care Administration (p. 192)
- Department of Marketing, MIS and Entrepreneurship (p. 203)
- Department of Military Science (p. 217)
- General Business, B.A. (p. 218)
- General Business, Minor (p. 220)

General Business, B.A. (p. 218)

General Business, Minor (p. 220)

Admission Requirements

Regular admission to the university constitutes admission to the Brad 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.

For students transferring into Marshall University, the Brad Smith Undergraduate School of Business will permit application of any appropriate transfer credits accepted by the university to meet general education requirements, lower division business requirements, or nonbusiness electives. For accepted transfer work to fulfill upper division business requirements and electives, the course credits must be earned at the upper division levels or a validation process is available for FIN 323 Principles of Finance, MGT 320 Principles of Management, and MKT 340 MKT Concepts and Applications, as outlined in "Transfer of Credits from Another Institution."

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 listed on a student's curriculum sheet 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 re-take the course at Marshall for upper division credit or validate the course. For a few courses, the Brad 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 Management; 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, Management Information Systems, 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. Not all unclassified courses can be applied toward a B.B.A. or B.A. degree requirement.

3+2 Program

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 Accounting Foundation courses with a grade of "C" or better in each course before the student will be enrolled in the 3+2 Program:

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

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 approved institution. Students must complete the "Approval of Courses to be Taken for Advanced Standing" form and get all required approvals.

Probation and Academic Dismissal

The Brad 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, as it changed significantly effective Fall 2003. This policy affects all undergraduate students in the LCOB regardless of their catalog year.

Advising

All students are assigned an academic advisor. The academic advisors for the LCOB are located in the Lewis College of Business 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.

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.

Although advising is not mandatory, students are highly encouraged to meet with their advisor each semester to ensure that they are staying on track to graduate. Students have the responsibility of checking prerequisites prior to enrollment. If a student has not met all prerequisites for a course prior to the first day of class, the Dean's Office has the right to withdraw the student from the course. Students are allowed to change majors at any time by filling out a Change of Major form in the Academic Advising Center.

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 will 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; a maximum of 6 credit hours can be earned in one semester, provided the student is working in a full-time, co-op experience and not enrolled as a full-time student. 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 division head upon completion of internship requirements. Students will be required to submit a journal or report of his/her experience. Students can check with the Academic Advising Center about how internship credit will count toward their degree.

Students who register for a Management, Management Information Systems, or Marketing internship and are majoring in that field will receive credit toward a Management elective, Management Information Systems elective, or Marketing elective, respectively. Students can only apply credit toward one Management, Management Information Systems, or Marketing elective. Students majoring in Energy Management and Entrepreneurship may apply three hours of internship credit towards an Energy Management or Entrepreneurship elective. For students who take an internship twice, the second three hours will be counted toward free elective hours. They will not apply toward an additional required elective. Students who complete an internship in Accounting, Economics, or Finance or are majoring in International Business or Health Care Management will receive credit toward free elective hours.

To be eligible for internship credit, students must meet the following eligibility requirements:

- Junior or Senior standing and overall GPA of 2.5 or better, or permission from the department chair.
- Transfer students meeting the above criteria are eligible to participate after one semester of coursework at the College of Business.

Independent Study

The Brad 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 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 GPA's or with permission from the department chair.
2. LCOB students with junior standing who have 3.0 or higher in overall, Marshall, and major GPA's 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 supervisor.

If a student is able to meet the above conditions, then he/she will be allowed to register for Independent Study, and will subsequently be bound by the "Procedures for Independent Study Projects" in the Academic Advising Center.

Degree Requirements

Graduation Requirements

The following general requirements must be met by all students seeking bachelor's degrees through the Brad 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. Students taking courses at another school in their last semester must have an official transcript sent from the other school to Marshall. The transfer work must be posted to the student's Marshall transcript by the end of the semester of application or the student's graduation may be delayed to the next graduation term.

Accountancy/Legal Environment

Jeffrey Archambault

Professor and Associate 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
Ph.D., 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., University of Cincinnati, 1987

Charles Stivason

Associate Professor
Ph.D., Virginia Tech, 1998

Amanda Thompson-Abbott

Instructor

M.B.A., Marshall University, 2003

Economics And International Business

Richard Agesa

Professor and Chair
Ph.D., University of Wisconsin, 1996

Nabaneeta Biswas

Assistant Professor
Ph.D., University of Georgia, 2009

Yi Duan

Assistant Professor
Ph.D., University of Oklahoma, 2017

Bo Feng

Assistant Professor
M.S., The Ohio State University, 2015

Robin McCutcheon

Associate Professor
Ph.D., Wayne State University, 2009

Boniface Yemba

Assistant Professor
Ph.D., University of Kansas, 2015

Finance

Jacqueline Agesa

Professor
Ph.D., University of Wisconsin, 1996

Mohammad Karim

Associate Professor
Ph.D., University of Texas, 2012

Mohammad Uddin

Assistant Professor
Ph.D., University of Texas at Arlington, 2014

Shaorong Zhang

Associate Professor
Ph.D., University of Missouri - Columbia, 2004

Management And Health Care Administration

Charles Braun

Professor
Ph.D., University of Kentucky, 1994

Alberto Coutasse-Henecke

Professor
Ph.D., University of North Texas, 2004

Dennis Emmett

Professor
Ph.D., Kent State University, 1978

Dae Sung Ha

Professor

Ph.D., Penn State University, 1970

Jamey Halleck

Instructor
M.B.A., Marshall University, 2000

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
Ph.D., 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

Fnu Ang

Assistant Professor
Ph.D., Southern Illinois University, 2015

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

Rex McClure

Associate Professor
Ph.D., Southern Illinois University, 2007

Dale Shao

Professor
Ph.D., Georgia State University, 1989

Uday Tate

Professor
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Department of Accountancy and Legal Environment

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Website: <http://www.marshall.edu/cob> (<http://www.marshall.edu/cob/>)

Programs

- Accounting, B.B.A. (p. 174)
- Accounting, Minor (p. 176)
- Legal Environment, Minor (p. 176)

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.

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.
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 281 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, 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.
Pre-req: ACC 215 with a minimum grade of C.
Grade Mode: Normal Grading Mode
- ACC 358 Manage Acc Hlth Care Mgt** 3 Credit hours
A study of financial planning and control and discharge of financial management accountabilities in the Health Care Administration sector through problem solving and related functions of Accounting.
Pre-req: ACC 216.
Grade Mode: Normal Grading Mode
- ACC 360 Total Quality for Acctng** 3 Credit hours
A consideration of the accounting principles underlying Total Quality. Philosophies, tools and accounting techniques for achieving Total Quality will be covered.
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 365 Con Reg & Audit ISO-9000** 3 Credit hours
Learn to implement, document and audit a quality system for ISO-9000 standards and obtain certification recognized in nearly 90 countries.
Pre-req: ACC 360.
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.
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.
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.
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.
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 430 Audit Theory & Research** 3 Credit hours
A critical examination of contemporary professional attestation theory and practice including a comprehensive review of AICPA statements on audit procedures.
Pre-req: ACC 429.
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.
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.

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 451  Accounting Theory **3 Credit hours**

An examination of accounting concepts, standards, rates, conventions, principles and practices with primary emphasis on the study of authoritative pronouncements comprising generally accepted accounting principles.

Pre-req: ACC 414.

Attributes: Capstone Course

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 Chairman.

Grade Mode: Normal Grading Mode

ACC 481 Special Topics **1-4 Credit hours**

Study of an advanced topic not normally covered in other courses. Accounting majors only, with permission of Department Chairman.

Grade Mode: Normal Grading Mode

ACC 482 Special Topics **1-4 Credit hours**

Study of an advanced topic not normally covered in other courses. Accounting majors only, with permission of Department Chairman.

Grade Mode: Normal Grading Mode

ACC 485 Independent Study **1-4 Credit hours**

Grade Mode: Normal Grading Mode

ACC 486 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.

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 312 with a minimum grade of C and ACC 318 with a minimum grade of C) and (ACC 414 (may be taken concurrently) with a minimum grade of D and ACC 429 (may be taken concurrently) with a minimum grade of D).

Concurrent PR: ACC 414 and ACC 429

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, gov- ernment, ethics and the consumer of business enterprise. The study of contracts, torts, government regulation of bus- iness, 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 of also includes constitutional and administrative law issues dealing with medicaid and medicare and regional planning.

Pre-req: ACC 207 or FIN 207 or FIN 307 or LE 207.

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 Hositality 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.

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		
<i>Core 1: Critical Thinking</i>		
FYS 100	First Yr Sem Critical Thinking	3
PSY 201  	Introductory Psychology (CT)	3
ACC 215  	Accounting Principles (CT)	3
<i>Core 2</i>		
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
<i>Additional University Requirements</i>		
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

LE 207	Legal Environ of Business	3
ECN 250 🎓	Principles Microeconomics	3
CMM 207 🦋🎓	Bus & Prof Communication	3
Physical or Natural Science		4
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
Free Elective		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
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
Free Elective		3
International Business Elective		3
Credit Hours		15

Second Semester

ACC 499 🦋	Professional and Ethics Sem (Senior Seminar)	3
MGT 460 🦋	Strategic Management	3
ACC Elective		3
Free Elective		2
Credit Hours		11
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
LE 308	Commercial Law	3
LE 351	Legal Aspts Hlth Care Org	3
LE 366	Entrep Law & Ethics	3
Total Credit Hours		12

Department of Finance, Economics and International Business

Contacts: Dr. Avinandan Mukherjee, Dean; Dr. Jeffrey Archambault, Associate Dean for Acadmic Programs; Dr. Nancy Lankton, Associate Dean for Accreditation and Strategic Initiatives


Website: <http://www.marshall.edu/cob> (<http://www.marshall.edu/cob/>)

Programs

- Economics, B.B.A. (p. 187)
- Economics, Minor (p. 188)

- Finance, B.B.A. (p. 188)
- Finance, Minor (p. 190)
- International Business, B.B.A. (p. 190)
- Risk Management and Insurance, Minor (p. 192)

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)

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.

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.

Pre-req: ECN 250 or ECN 200.

Grade Mode: Normal Grading Mode

ECN 280 Special Topics 1-4 Credit hours

Grade Mode: Normal Grading Mode

ECN 281 Special Topics 1-4 Credit hours

Grade Mode: Normal Grading Mode

ECN 282 Special Topics 1-4 Credit hours

Grade Mode: Normal Grading Mode

ECN 283 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 253 or ECN 241) and (ECN 250 or ECN 242 or ECN 200).

Attributes: American Institutions

Grade Mode: Normal Grading Mode

ECN 326 Int Macroeconomic Analysis 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.

Pre-req: (ECN 200 or ECN 250) and ECN 253.

Attributes: American Institutions

Grade Mode: Normal Grading Mode

ECN 328 Int Microeconomic Analysis 3 Credit hours

Micro-economic theories of the production and pricing of goods and services, payments to the factors of production.

Pre-req: (ECN 200 or ECN 250) and ECN 253.

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.

Grade Mode: Normal Grading Mode

ECN 408 Comparative Econ Systems 3 Credit hours

Marxism, capitalism, communism, facism and socialism considered as theories, movements and actual political economies.

Pre-req: (ECN 200 or ECN 250 or ECN 242) and ECN 253.

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.

Pre-req: (ECN 250 or ECN 242 or ECN 200) and (ECN 253 or ECN 241).

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.

Pre-req: (ECN 253 or ECN 241) and (ECN 250 or ECN 242 or ECN 200).

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.

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 or MGT 218E or MGT 318 or MTH 225 or STA 225 or IST 130 or EDF 417 or PSY 223 or SOC 345) and (ECN 253 or ECN 241).

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 200 or ECN 250 or ECN 242).

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 200 or ECN 250 or ECN 242) and (ECN 253 or ECN 241).

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.

Pre-req: ECN 326 and ECN 328 and ECN 423.

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)

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.

Pre-req: (ECN 200 or ECN 250 or ECN 242) and (ECN 253 or ECN 241).

Grade Mode: Normal Grading Mode

ECN 481 Special Topics**1-4 Credit hours**

Members of the department may teach, when necessary, any economics subject not listed among the current course offerings.

Pre-req: (ECN 250 or ECN 242 or ECN 200) and (ECN 253 or ECN 241).

Grade Mode: Normal Grading Mode

ECN 482 Special Topics**1-4 Credit hours**

Members of the department may teach, when necessary, any economics subject not listed among the current course offerings.

Pre-req: (ECN 250 or ECN 242 or ECN 200) and (ECN 253 or ECN 241).

Grade Mode: Normal Grading Mode

ECN 483 Special Topics**1-4 Credit hours**

Members of the department may teach, when necessary, any economics subject not listed among the current course offerings.

Pre-req: (ECN 250 or ECN 242 or ECN 200) and (ECN 253 or ECN 241).

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.

Grade Mode: Normal Grading Mode

ECN 486 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.

Grade Mode: Normal Grading Mode

ECN 487 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.

Grade Mode: Normal Grading Mode

ECN 488 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.

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 advance 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.

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.

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.

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 among 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.

Pre-req: (MGT 601 or MGT 500) and ECN 501.

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.

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.

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)

Grade Mode: Normal Grading Mode

ECN 681 Thesis 3-6 Credit hours

(PR: Permission of division head and full M.B.A. admissions)

Grade Mode: Normal Grading Mode

ECN 699 Bus 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.

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.

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.

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.

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.

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.

Pre-req: FIN 323 or FIN 323E or FIN 323V.

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 or FIN 323E or FIN 323V.

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.

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. Capstone experience.

Pre-req: FIN 321.

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.

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 ooptions and futures, their market microstructure, their theoretical foundation pertaining to pricing and hedging with such contracts, and their uses.

Pre-req: FIN 370.

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 commodities 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.

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.

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 chairman.

Grade Mode: Normal Grading Mode

FIN 481 Special Topics**1-4 Credit hours**

Study of an advanced topic not normally covered in other courses.

Finance major only, with permission of department chairman.

Grade Mode: Normal Grading Mode

FIN 485 Independent Study**1-4 Credit hours**

Grade Mode: Normal Grading Mode

FIN 486 Independent Study**1-4 Credit hours**

Grade Mode: Normal Grading Mode

FIN 487 Independent Study**1-4 Credit hours**

Grade Mode: Normal Grading Mode

FIN 488 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 student's 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).

Pre-req: ACC 510 and ECN 501 and MGT 500.

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.

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.

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.

Pre-req: MGT 601.

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 or FIN 501.

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.

Pre-req: FIN 620.

Grade Mode: Normal Grading Mode

FIN 626 Sec Analysis-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.

Pre-req: FIN 620.

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.

Pre-req: FIN 620.

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)

Pre-req: FIN 501G or FIN 510.

Grade Mode: Normal Grading Mode

FIN 651 Special Topics 1-3 Credit hours

Pre-req: FIN 620.

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)

Pre-req: FIN 620.

Grade Mode: Normal Grading Mode

FIN 681 Thesis 1-6 Credit hours

(PR: Permission of the division head and full M.B.A. admission)

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.

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.

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 281 Special Topics 1-4 Credit hours

Grade Mode: Credit/No Credit Grade Only

MGT 282 Special Topics 1-4 Credit hours

Grade Mode: Normal Grading Mode

MGT 283 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. Application of statistical techniques to business and economic data. Topics include measures of central tendency and dispersion, theory of probability and probability distributions, sampling distributions, estimation, hypotheses testing, correlation and regression analysis, index numbers and time series.

Pre-req: MTH 190.

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.

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.

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 350 Health Care Management 3 Credit hours

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.

Pre-req: MGT 350.

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.

Grade Mode: Normal Grading Mode

MGT 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 co-operation 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 MGT 320H 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.

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.

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.

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.

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 an attempt to describe a holistic approach.

Pre-req: MGT 320 or MGT 320E.

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.

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, participative management, and labor theory. Labor laws and history are reviewed.

Pre-req: (MGT 320 or MGT 320E).

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 experiential 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.

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.

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.

Pre-req: MGT 320.

Grade Mode: Normal Grading Mode

MGT 454 Trends Hlth Care Delivery**3 Credit hours**

Discussion of trends in Health Care Delivery in the United States and related public policies and their implications to society.

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 456 Plan Hlth Care Del System** **3 Credit hours**
Application of systems approach to evaluation of current health care services and for future planning decisions.
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.
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 with 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) 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, Writing Intensive
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.
Grade Mode: Credit/No Credit Grade Only
- MGT 472 Prac Health Care Mgt II** **4 Credit hours**
Field experience in management of Health Care Organizations.
Pre-req: MGT 471.
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.
Grade Mode: Normal Grading Mode
- MGT 481 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.
Grade Mode: Normal Grading Mode
- MGT 482 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.
Grade Mode: Normal Grading Mode
- MGT 483 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.
Grade Mode: Normal Grading Mode
- MGT 485 Independent Study** **1-4 Credit hours**
Grade Mode: Normal Grading Mode
- MGT 486 Independent Study** **1-4 Credit hours**
Grade Mode: Normal Grading Mode
- MGT 487 Independent Study** **1-4 Credit hours**
Grade Mode: Normal Grading Mode
- MGT 488 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.
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.
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 include decision analysis, linear programming and queuing. (PR: Full MBA Admission or Permission of MBA Director)
Pre-req: MGT 500.
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 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)

Pre-req: MKT 511.

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)

Pre-req: MGT 672 or MGT 503G.

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.

Pre-req: MGT 503 or MGT 503G.

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.

Grade Mode: Normal Grading Mode

MGT 655 Management of Small Business**3 Credit hours**

Pre-req: MGT 501 or MGT 501G.

Grade Mode: Normal Grading Mode

MGT 660 Independent Study**1-4 Credit hours**

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 or MGT 503G.

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.

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.

Pre-req: MGT 672 or MGT 503G.

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)

Pre-req: MGT 601.

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.

Pre-req: MGT 672 or MGT 503G.

Grade Mode: Normal Grading Mode

MGT 676 Organization Theory Design**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.

Pre-req: MGT 672 or MGT 503G.

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**

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.

Pre-req: MGT 672.

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****Grade Mode:** Normal Grading Mode**MGT 799 Business Policy 3 Credit hours****Grade Mode:** Normal Grading Mode

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.

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.

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.

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.

Pre-req: MKT 340 with a minimum grade of D and (ACC 215 with a minimum grade of D or ACC 310 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 pipeline transportation. Particular emphasis is placed upon the significance of transportation 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.

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)

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.**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: MKT 218 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.**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.

Pre-req: (MKT 340 or MKT 340E).**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.

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)

Pre-req: MKT 340 or MKT 340E.**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.

Pre-req: (MKT 340 with a minimum grade of D or MKT 340H 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)

Grade Mode: Normal Grading Mode

MKT 449 Transport Law/Pub Policy**3 Credit hours**

Comprehensive review of the regulation of carriers and transportation regulatory acts, functions of the procedure before the several regulatory commissions.

Pre-req: ACC 216 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 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 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 modifying 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.

Grade Mode: Normal Grading Mode

MKT 481 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.

Grade Mode: Normal Grading Mode

MKT 482 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.

Grade Mode: Normal Grading Mode

MKT 485 Independent Study**1-4 Credit hours**

Pre-req: MKT 442 and MKT 231 and MKT 437.

Grade Mode: Normal Grading Mode

MKT 486 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 management/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**

Examination 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.

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.

Grade Mode: Normal Grading Mode

MKT 681 Thesis**1-6 Credit hours**

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 decision-making and implementation of the firm's marketing program.

Pre-req: MKT 511.

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.

Pre-req: MKT 682 and MGT 601.

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.

Pre-req: MKT 682.

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.

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**

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		
<i>Core 1: Critical Thinking</i>		
FYS 100	First Yr Sem Critical Thinking	3
PSY 201 	Introductory Psychology (CT)	3
ACC 215 	Accounting Principles (CT)	3
<i>Core 2</i>		
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
<i>Additional University Requirements</i>		
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

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		
LE 207 	Legal Environ of Business	3
ECN 250	Principles Microeconomics	3
CMM 207  	Bus & Prof Communication	3
Physical or Natural Science		4
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
Free Elective		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
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		
<i>Core 1: Critical Thinking</i>		
FYS 100	First Yr Sem Critical Thinking	3
PSY 201  	Introductory Psychology (CT)	3
ACC 215 	Accounting Principles (CT)	3
<i>Core 2</i>		
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
<i>Additional University Requirements</i>		
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: 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		
LE 207	Legal Environ of Business	3
ECN 250	Principles Microeconomics	3
CMM 207	Bus & Prof Communication	3
Physical or Natural Science		4
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
Free Elective		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
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		
<i>Core 1: Critical Thinking</i>		
FYS 100	First Yr Sem Critical Thinking	3
PSY 201	Introductory Psychology (CT)	3
ACC 215	Accounting Principles (CT)	3
<i>Core 2</i>		

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
<i>Additional University Requirements</i>		
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
ECN 420 🌿	International Trade	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		
LE 207	Legal Environ of Business	3
ECN 250 🎓	Principles Microeconomics	3
CMM 207 🌿🎓	Bus & Prof Communication	3
Physical or Natural Science		4
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
Free Elective		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
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

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 Finance and Economics division	
300/400-level course approved by the Finance and Economics division	
Total Credit Hours	12

Department of Management and Health Care Administration

Contacts: Dr. Avinandan Mukherjee, Dean; Dr. Jeffrey Archambault, Associate Dean for Acadmic Programs; Dr. Nancy Lankton, Associate Dean for Accreditation and Strategic Initiatives

Website: <http://www.marshall.edu/cob> (<http://www.marshall.edu/cob/>)

Programs

- Health Care Management, B.B.A. (p. 197)
- Management, B.B.A. (p. 199)
- Management, Minor (p. 201)
- Sustainability Management and Technology, B.B.A. (p. 201)

Courses

🌱 - General Education Course

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)

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)

Pre-req: HCA 600.

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.

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)

Pre-req: HCA 600 or HCA 600G.**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 and MKT 511.**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)

Pre-req: HCA 600 or HCA 600G.**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 evolution, 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 management 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.

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.

Grade Mode: Normal Grading Mode**HCA 654 Human Res Manage in Hlth Care****3 Credit hours**

Investigation of the human resource function found within 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.

Grade Mode: Normal Grading Mode**HCA 656 Mgt of Medical Technology****3 Credit hours**

An investigation of the place technology, primarily hard technology plays in the formulation of health care policy and strategies. Special emphasis 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.

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.

Grade Mode: Normal Grading Mode**HCA 659 Rural Health 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.

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.

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 serves 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)

Grade Mode: Normal Grading Mode

HCA 698 Indpdnt Study-Hlth Care Admn	1-3 Credit hours	MGT 320 Principles of Management	3 Credit hours
Pre-req: HCA 600 or HCA 600G.		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		Grade Mode: Normal Grading Mode	
HCA 699 Seminar in Health Care Admin	3 Credit hours	MGT 325 Project Management	3 Credit hours
Grade Mode: Normal Grading Mode		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.	
HCA 750 Field Research/Health Care Mgt	3 Credit hours	Pre-req: MGT 218 with a minimum grade of D.	
Pre-req: (HCA 610 or HCA 610G) and (HCA 620 or HCA 620G) and (HCA 630 or HCA 630G).		Grade Mode: Normal Grading Mode	
Grade Mode: Normal Grading Mode		MGT 335 Hospitality & Tourism Mgt	3 Credit hours
HCA 797 Thesis	6 Credit hours	An introduction to the hospitality industry, emerging trends and various management functions related to it.	
Grade Mode: Normal Grading Mode		Grade Mode: Normal Grading Mode	
MGT 100 Introduction to Business	3 Credit hours	MGT 350 Health Care Management	3 Credit hours
Career exploration and preparation. Emphasis on modern supervisory management techniques in various business fields.		An introduction to the management of health care organizations.	
Grade Mode: Normal Grading Mode		Pre-req: MGT 320 with a minimum grade of D.	
MGT 218 Business Quantitative Methods	3 Credit hours	Grade Mode: Normal Grading Mode	
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.		MGT 354 Health Care Delivery Systems	3 Credit hours
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).		An examination of the various private and public sector health care delivery systems currently management.	
Attributes: Statistics		Pre-req: MGT 350.	
Grade Mode: Normal Grading Mode		Grade Mode: Normal Grading Mode	
MGT 280 Special Topics	1-4 Credit hours	MGT 355 Health Care Prods & Services	3 Credit hours
Grade Mode: Normal Grading Mode		Application of business principles as they apply to the management of health care products and services in today's health care environment.	
MGT 281 Special Topics	1-4 Credit hours	Pre-req: MGT 350.	
Grade Mode: Credit/No Credit Grade Only		Grade Mode: Normal Grading Mode	
MGT 282 Special Topics	1-4 Credit hours	MGT 360 Intro to Entrepreneurship	3 Credit hours
Grade Mode: Normal Grading Mode		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 co- operation with the U.S. Small Business Administration, provides students with field experience as management consultants to an area small business.	
MGT 283 Special Topics	1-4 Credit hours	Pre-req: MGT 320 with a minimum grade of D or MGT 320H with a minimum grade of D.	
Grade Mode: Normal Grading Mode		Grade Mode: Normal Grading Mode	
MGT 318 Management Analytics	3 Credit hours	MGT 370 Energy Management Principles	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. Application of statistical techniques to business and economic data. Topics include measures of central tendency and dispersion, theory of probability and probability distributions, sampling distributions, estimation, hypotheses testing, correlation and regression analysis, index numbers and time series.		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: MTH 190.		Pre-req: MGT 320 with a minimum grade of D.	
Attributes: Statistics		Grade Mode: Normal Grading Mode	
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.

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.

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.

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.

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 an attempt to describe a holistic approach.

Pre-req: MGT 320 or MGT 320E.

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.

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, participative management, and labor theory. Labor laws and history are reviewed. relations.

Pre-req: (MGT 320 or MGT 320E).

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 experiential 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.

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.

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.

Pre-req: MGT 320.

Grade Mode: Normal Grading Mode

MGT 454 Trends Hlth Care Delivery**3 Credit hours**

Discussion of trends in Health Care Delivery in the United States and related public policies and their implications to society.

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 456 Plan Hlth Care Del System**3 Credit hours**

Application of systems approach to evaluation of current health care services and for future planning decisions.

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.

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 with 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) 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, Writing Intensive

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.

Grade Mode: Credit/No Credit Grade Only

MGT 472 Prac Health Care Mgt II**4 Credit hours**

Field experience in management of Health Care Organizations.

Pre-req: MGT 471.

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.

Grade Mode: Normal Grading Mode

MGT 481 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.

Grade Mode: Normal Grading Mode

MGT 482 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.

Grade Mode: Normal Grading Mode

MGT 483 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.

Grade Mode: Normal Grading Mode

MGT 485 Independent Study**1-4 Credit hours**

Grade Mode: Normal Grading Mode

MGT 486 Independent Study**1-4 Credit hours**

Grade Mode: Normal Grading Mode

MGT 487 Independent Study**1-4 Credit hours**

Grade Mode: Normal Grading Mode

MGT 488 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.

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.

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 include decision analysis, linear programming and queuing. (PR: Full MBA Admission or Permission of MBA Director)

Pre-req: MGT 500.

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 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)

Pre-req: MKT 511.

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)

Pre-req: MGT 672 or MGT 503G.**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.

Pre-req: MGT 503 or MGT 503G.**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.

Grade Mode: Normal Grading Mode**MGT 655 Management of Small Business****3 Credit hours****Pre-req:** MGT 501 or MGT 501G.**Grade Mode:** Normal Grading Mode**MGT 660 Independent Study****1-4 Credit hours**

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 or MGT 503G.**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.

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.

Pre-req: MGT 672 or MGT 503G.**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)

Pre-req: MGT 601.**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.

Pre-req: MGT 672 or MGT 503G.**Grade Mode:** Normal Grading Mode**MGT 676 Organization Theory Design****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.

Pre-req: MGT 672 or MGT 503G.**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****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.

Pre-req: MGT 672.**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****Grade Mode:** Normal Grading Mode**MGT 799 Business Policy****3 Credit hours****Grade Mode:** Normal Grading Mode


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		
<i>Core 1: Critical Thinking</i>		
FYS 100	First Yr Sem Critical Thinking	3
PSY 201 	Introductory Psychology (CT)	3
ACC 215 	Accounting Principles (CT)	3
<i>Core 2</i>		
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
<i>Additional University Requirements</i>		
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		
LE 207	Legal Environ of Business	3
ECN 250 	Principles Microeconomics	3
CMM 207  	Bus & Prof Communication	3
Physical or Natural Science		4
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
Free Elective		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
Free Elective		3
Credit Hours		15
Fourth Year		
First Semester		
MGT 424	Human Resource Management	3
MGT 455 	Hlth Care Policy Seminar	3
Humanities		3
MGT 471	Prac Health Care Mgt I (Summer)	4
Credit Hours		13
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		
<i>Core 1: Critical Thinking</i>		
FYS 100	First Yr Sem Critical Thinking	3
PSY 201  	Introductory Psychology (CT)	3
ACC 215 	Accounting Principles (CT)	3
<i>Core 2</i>		
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

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.

🌿 - General Education Course



🎓 - 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 choose 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

LE 207	Legal Environ of Business	3
ECN 250 	Principles Microeconomics	3
CMM 207 	Bus & Prof Communication	3
Physical or Natural Science		4
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
Free Elective		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
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 some or all 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
Required Course - See Advisor		3
Total Credit Hours		12

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
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PSY 201 	Introductory Psychology (CT)	3
ACC 215 	Accounting Principles (CT)	3
<i>Core 2</i>		
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
<i>Additional University Requirements</i>		
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		
LE 207	Legal Environ of Business	3
ECN 250 	Principles Microeconomics	3
CMM 207  	Bus & Prof Communication	3
Physical or Natural Science		4
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
Free Elective		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 370	Energy Management Principles	3
MKT 340 	MKT Concepts and Applications	3
MIS 290	Prin Management Info Systems	3
Humanities		3
Credit Hours		15
Second Semester		
MKT 350	Supply Chain Logistics	3
MGT 428	Negotiations	3
MGT 446	Green 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 325	Project Management	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

Department of Marketing, MIS and Entrepreneurship

Contacts: Dr. Avinandan Mukherjee, Dean; Dr. Jeffrey Archambault, Associate Dean for Academic Programs; Dr. Nancy Lankton, Associate Dean for Accreditation and Strategic Initiatives

Website: <http://www.marshall.edu/cob> (<http://www.marshall.edu/cob/>)

Overview

Programs

- Entrepreneurship, B.B.A. (p. 208)
- Entrepreneurship, Minor for Business Majors (p. 209)
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- Hospitality and Tourism Marketing, Minor (p. 210)
- Management Information System, B.B.A. (p. 210)
- Management Information Systems, Minor (p. 212)
- Marketing, B.B.A. (p. 212)
- Marketing, Minor (p. 217)

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 281 Special Topics **1-4 Credit hours**

Special topics in entrepreneurship.

Grade Mode: Normal Grading Mode

ENT 282 Special Topics

Special topics in entrepreneurship.
Grade Mode: Normal Grading Mode

1-4 Credit hours**ENT 283 Special Topics**

Special topics in entrepreneurship.
Grade Mode: Normal Grading Mode

1-4 Credit hours**ENT 284 Special Topics**

Special topics in entrepreneurship.
Grade Mode: Normal Grading Mode

1-4 Credit hours**ENT 320 Marketing for Entrepreneurs**

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

3 Credit hours**ENT 340 Business Models for Start-Ups**

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

3 Credit hours**ENT 350 The Startup Experience**

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: MGT 360 with a minimum grade of D or ENT 360 with a minimum grade of D.
Grade Mode: Normal Grading Mode

3 Credit hours**ENT 360 Intro to Entrepreneurship**

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 MGT 320H with a minimum grade of D or MKT 340 with a minimum grade of D.
Grade Mode: Normal Grading Mode

3 Credit hours**ENT 370 Dilemmas & Debates in Entrp**

Refereed 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: MGT 360.
Grade Mode: Normal Grading Mode

3 Credit hours**ENT 380 Social Entrepreneurship**

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

3 Credit hours**ENT 410 Corporate Intrapreneurship**

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

3 Credit hours**ENT 467 🌱 Strategic Entrepreneurship**

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

3 Credit hours**ENT 469 New Venture Launch**

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: ENG 467.
Grade Mode: Normal Grading Mode

3 Credit hours**ENT 471 Social Enterprise Practicum**

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

3 Credit hours**ENT 472 New Venture Practicum**

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.
Grade Mode: Normal Grading Mode

3 Credit hours**ENT 480 Special Topics**

Study of an advanced topic not normally covered in other courses.
Grade Mode: Normal Grading Mode

1-4 Credit hours**ENT 481 Special Topics**

Study of an advanced topic not normally covered in other courses.
Grade Mode: Normal Grading Mode

1-4 Credit hours**ENT 482 Special Topics**

Study of an advanced topic not normally covered in other courses.
Grade Mode: Normal Grading Mode

1-4 Credit hours**ENT 483 Special Topics**

Study of an advanced topic not normally covered in other areas.
Grade Mode: Normal Grading Mode

1-4 Credit hours**ENT 484 Special Topics**

Study of an advanced topic not normally covered in other areas.
Grade Mode: Normal Grading Mode

1-4 Credit hours**ENT 680 Entrepreneurship**

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

3 Credit hours

Management Information Systems

MIS 200 Bus Computer Applications

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

3 Credit hours

MIS 290 Prin Management Info Systems	3 Credit hours	MIS 411 App Sys Anlyn & Dsgn	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	
Grade Mode: Normal Grading Mode		MIS 412 Enterprise Systems	3 Credit hours
MIS 300 Intro to Business Programming	3 Credit hours	A study of cross-functional and process-oriented information systems. Topics to include business process management, supply-chain, and relationship management systems. PR: MIS 290 or permission of COB advising office.	
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.	
Pre-req: MIS 290 with a minimum grade of D.		Grade Mode: Normal Grading Mode	
Grade Mode: Normal Grading Mode		MIS 415 Emerging Info & Comm Tech	3 Credit hours
MIS 307 Advanced Business Programming	3 Credit hours	A study of emerging information and communication technologies in a business and organizational context. PR: MIS 290 or permission of COB advising office.	
Builds upon the business programming introduction with an emphasis on distributed, data-driven applications and higher order data structures (PR: MIS 300)		Pre-req: MIS 290.	
Pre-req: MIS 300.		Grade Mode: Normal Grading Mode	
Grade Mode: Normal Grading Mode		MIS 420 Info Security Management	3 Credit hours
MIS 310 Bus Sys Analysis & Design	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.	
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	
Grade Mode: Normal Grading Mode		MIS 470 Business Sys Proj Mgt	3 Credit hours
MIS 333 Bus Telecomm Sys	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)	
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	
Grade Mode: Normal Grading Mode		MIS 475  Strat Management Info Systems	3 Credit hours
MIS 340 Intro to Database Mgt 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.	
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 management system.		Attributes: Capstone Course	
Grade Mode: Normal Grading Mode		Grade Mode: Normal Grading Mode	
MIS 350 E-Commerce Systems	3 Credit hours	MIS 476 Bus Intel & Analytics Project	3 Credit hours
E-Commerce from a management and socio-technical perspective emphasizing current technologies and issues, including internet-enabled business models, legal and social issues. PR: MIS 290 or permission of COB advising office.		A capstone project in business intelligence & analytics. Principles of business intelligence & analytics as applied to the development of a comprehensive, multi-disciplinary business intelligence and analytics project.	
Grade Mode: Normal Grading Mode		Pre-req: MIS 460.	
MIS 360 Intro to Bus Intel & Analytics	3 Credit hours	Grade Mode: Normal Grading Mode	
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.		MIS 480 Special Topics	1-4 Credit hours
Pre-req: MGT 218 with a minimum grade of D and MIS 290 with a minimum grade of D.		Grade Mode: Normal Grading Mode	
Co-req: MIS 340		MIS 481 Special Topics	1-4 Credit hours
Grade Mode: Normal Grading Mode		Grade Mode: Normal Grading Mode	
MIS 400 MIS Practicum	1-3 Credit hours	MIS 482 Special Topics	1-4 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	
Grade Mode: Normal Grading Mode		MIS 483 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 486 Independent Study	1-4 Credit hours
		Grade Mode: Normal Grading Mode	
		MIS 487 Independent Study	1-4 Credit hours
		Grade Mode: Normal Grading Mode	
		MIS 488 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 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 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.

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 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.**Grade Mode:** Normal Grading Mode

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.

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.

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.

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.

Pre-req: MKT 340 with a minimum grade of D and (ACC 215 with a minimum grade of D or ACC 310 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 pipeline transportation. Particular emphasis is placed upon the significance of transportation 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.

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)

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.**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 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.**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.

Pre-req: (MKT 340 or MKT 340E).**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.

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)

Pre-req: MKT 340 or MKT 340E.**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.

Pre-req: (MKT 340 with a minimum grade of D or MKT 340H 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)

Grade Mode: Normal Grading Mode**MKT 449 Transport Law/Pub Policy****3 Credit hours**

Comprehensive review of the regulation of carriers and transportation regulatory acts, functions of the procedure before the several regulatory commissions.

Pre-req: ACC 216 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 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 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 modifying 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.

Grade Mode: Normal Grading Mode**MKT 481 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.

Grade Mode: Normal Grading Mode**MKT 482 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.

Grade Mode: Normal Grading Mode**MKT 485 Independent Study****1-4 Credit hours****Pre-req:** MKT 442 and MKT 231 and MKT 437.**Grade Mode:** Normal Grading Mode**MKT 486 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 management/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**

Examination 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.**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.**Grade Mode:** Normal Grading Mode**MKT 681 Thesis****1-6 Credit hours****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 decision-making and implementation of the firm's marketing program.

Pre-req: MKT 511.**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.

Pre-req: MKT 682 and MGT 601.**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.


Pre-req: MKT 682.**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.**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****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		
<i>Core 1: Critical Thinking</i>		
FYS 100	First Yr Sem Critical Thinking	3
PSY 201  	Introductory Psychology (CT)	3
ACC 215 	Accounting Principles (CT)	3
<i>Core 2</i>		
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
<i>Additional University Requirements</i>		
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		
LE 207	Legal Environ of Business	3
ECN 250 	Principles Microeconomics	3
CMM 207 	Bus & Prof Communication	3
Physical or Natural Science		4
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
Free Elective		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
ENT 220 	Creativity & Innovation	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
FIN 323	Principles of Finance	3
Humanities		3
Credit Hours		15

Second Semester


ENT 360	Intro to Entrepreneurship	3
LE 366 	Entrep Law & Ethics	3
ENT 320	Marketing for Entrepreneurs	3
Free Elective		3
Free Elective		3
Credit Hours		15

Fourth Year

First Semester

ENT 350	The Startup Experience	3
ENT 340	Business Models for Start-Ups	3
ENT 410	Corporate Intrapreneurship	3
Free Elective		3
Free Elective		3
Credit Hours		15

Second Semester

ENG 467	Visual Rhetoric	3
MGT 460 	Strategic Management	3
International Business Elective		3
Free Elective		3
Credit Hours		12
Total Credit Hours		120

Entrepreneurship, Minor for Business Majors

A minimum of 15 credit hours to include – Required Courses:

Code	Title	Credit Hours
ACC 215/216	Accounting Principles (CT)	3
ENT 360	Intro to Entrepreneurship	3
ENT 220	Creativity & Innovation	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

Entrepreneurship, Minor for Non-Business Majors

A minimum of 15 credit hours to include – Required Courses:

Code	Title	Credit Hours
ACC 310	Acct for Entrepreneurs	3
ENT 360	Intro to Entrepreneurship	3
ENT 220	Creativity & Innovation	3
LE 366	Entrep Law & Ethics	3
Select one of the following:		3
Any ENT-designated course, 300 level or above		
MGT 446	Green 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
MGT 445	International Management	3

Select one of the following:	3
MKT 440	Sales Management
STHM 270	Sport Tourism
ENT 360	Intro to Entrepreneurship
GEO 317	World Regional Geography
NRRM 340	Special Event Management
NRRM 362	Ecotourism: Admin and Mgmt

Management Information System, 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		
<i>Core 1: Critical Thinking</i>		
FYS 100	First Yr Sem Critical Thinking	3
PSY 201	Introductory Psychology (CT)	3
ACC 215	Accounting Principles (CT)	3
<i>Core 2</i>		
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
Natural/Physical Science		4
Humanities		3
PSY 201	Introductory Psychology (CT)	3
Fine Arts		3
<i>Additional University Requirements</i>		
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 between 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		
LE 207	Legal Environ of Business	3
ECN 250	Principles Microeconomics	3
CMM 207	Bus & Prof Communication	3
Physical or Natural Science		4
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
Free Elective		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
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		
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		
<i>Core 1: Critical Thinking</i>		
FYS 100	First Yr Sem Critical Thinking	3
PSY 201 	Introductory Psychology (CT)	3
ACC 215 	Accounting Principles (CT)	3
<i>Core 2</i>		
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
<i>Additional University Requirements</i>		
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. 214)
- Sales, Emphasis (p. 215)




 - General Education Course


 - 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		
LE 207	Legal Environ of Business	3
ECN 250	Principles Microeconomics	3
CMM 207 	Bus & Prof Communication	3
Physical or Natural Science		4
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
Free Elective		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
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		
<i>Core 1: Critical Thinking</i>		
FYS 100	First Yr Sem Critical Thinking	3
PSY 201	Introductory Psychology (CT)	3
ACC 215	Accounting Principles (CT)	3
<i>Core 2</i>		
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
<i>Additional University Requirements</i>		
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 350	E-Commerce 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		
LE 207	Legal Environ of Business	3
ECN 250	Principles Microeconomics	3
CMM 207  	Bus & Prof Communication	3
Physical or Natural Science		4
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
Free Elective		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
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		
<i>Core 1: Critical Thinking</i>		
FYS 100	First Yr Sem Critical Thinking	3
PSY 201 	Introductory Psychology (CT)	3
ACC 215 	Accounting Principles (CT)	3
<i>Core 2</i>		
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
<i>Additional University Requirements</i>		
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.
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- 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		
LE 207	Legal Environ of Business	3
ECN 250	Principles Microeconomics	3
CMM 207 	Bus & Prof Communication	3
Physical or Natural Science		4
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
Free Elective		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
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

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 \$700 for attending a five-week Advanced Camp (between the junior and senior year). Total remuneration for the final two years is approximately \$7,500. 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. 218)
- U.S. Army Reserve Officers' Training Corps (p. 218)

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 approximately \$43,000 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 have 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/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		
<i>Core 1: Critical Thinking</i>		
FYS 100	First Yr Sem Critical Thinking	3
PSY 201 	Introductory Psychology (CT)	3
ACC 215 	Accounting Principles (CT)	3
<i>Core 2</i>		
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
Natural/Physical Science		4
Humanities		3
PSY 201 	Introductory Psychology (CT)	3
Fine Arts		3
<i>Additional University Requirements</i>		
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	

Elective Credit

Students can take 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). Nine (9) hours of General Business Electives must be 400 level.	24
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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
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		
LE 207	Legal Environ of Business	3
ECN 250	Principles Microeconomics	3
CMM 207 	Bus & Prof Communication	3
Physical or Natural Science		4
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
Free Elective		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
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

General Business Elective		3
General Business Elective		3
General Business Elective		3
General Business Elective		3
Free Elective		3
Credit Hours		15

Fourth Year**First Semester**

General Business Elective (400 Level)		3
General Business Elective (400 Level)		3
General Business Elective		3
Free Elective		3
Free Elective		3
Credit Hours		15

Second Semester

MGT 460 🌿	Strategic Management	3
MKT 371 🌿	International Marketing	3
General Business Elective (400 Level)		3
Free Elective		3
Credit Hours		12
Total Credit Hours		120

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.

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 Certification Office, Education Building 207.

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. 226)
- Early Childhood Education (p. 253)

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.

- Completed at least 24 credit hours, including EDF 201 Ed Psych Developing Learner/EDF 270 Level I Clinical Exp (12 hours for transfer students).
- Maintained Grade Point Average of 2.80 or better for all courses attempted **overall**.
- Maintained Grade Point Average of 2.80 or better for all courses attempted at Marshall University.
- ACT composite of 21 (see the Student Center of Professional Education Services, 201 Education Building, for alternative entrance table).
- 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.
- Completion of Self-Assessment in LiveText.
- Completion of Writing Sample in LiveText.
- Three Recommendations uploaded to LiveText.

Process for Application for Admission to Teacher Education

- During enrollment in EDF 201 Ed Psych Developing Learner, each student will be asked to submit an Application for Admission to Teacher Education.
- 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.
- 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/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:

- Completion of the professional education core prerequisites.
- 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.

- 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.
- 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.
- Application for Student Teaching.** Applications must be completed the semester previous to enrolling for this experience.
- 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.

- 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.
- 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.

Any coursework in addition to the student teaching block must be approved by the director of the Student Center of Professional Education Services (SCOPES) prior to registration. Any additional class scheduled during this period must meet after 4:00 p.m. A student may not take more than sixteen (16) semester hours during the student teaching semester.

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.

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		
<i>Core I Requirements</i>		
FYS 100	First Yr Sem Critical Thinking	3
Select two CT-designated courses		6
<i>Core II Requirements</i>		
ENG 101 🌿	Beginning Composition	3
ENG 201 🌿	Advanced Composition	3
CMM 103 🌿	Fund Speech-Communication	3
Fine Arts		3
Humanities		3
Math		3
Physical/Natural Science		4
Social Science		3
<i>Additional Requirements</i>		
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

N. Arneson, Backus, Dozier, Isaacs, Klein, Lucas, Reed, Seelinger, Watson

Associate Professors

Allenger, Cartwright, Corrigan

Assistant Professors

R. Arneson, Dunham, Kinghorn, Lockwood, McFarland-Whisman, 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

- Art PreK-Adult, B.A. (p. 230)
- Biological Science 9-Adult, B.A. (p. 232)
- Chemistry 9-Adult, B.A. (p. 234)
- Elementary Education K-6 Comprehensive, B.A. (p. 236)
- English 5-9, B.A. (Second Specialization only) (p. 238)
- English 5-Adult, B.A. (p. 238)
- General Science 5-9, B.A. (Second Specialization only) (p. 240)
- General Science 5-Adult, B.A. (p. 241)
- Japanese PreK-Adult, B.A. (p. 243)
- Mathematics 5-9, B.A. (Second Specialization only) (p. 243)
- Mathematics 5-Adult, B.A. (p. 243)
- Multi-Categorical Special Education 5-Adult, B.A. (Second Specialization only) (p. 245)
- Multi-Categorical Special Education K-6, B.A. (Second Specialization only) (p. 245)
- Music PreK-Adult, B.A. (p. 245)
- Physics 9-Adult Comprehensive, B.A. (p. 247)
- Social Studies 5-9, B.A. (Second Specialization only) (p. 249)
- Social Studies 5-Adult, B.A. (p. 249)
- Spanish 5-Adult, B.A. (p. 251)
- Wellness PreK-Adult, B.A. (p. 251)

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.

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.

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.

Pre-req: CI 101 with a minimum grade of D 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 3 Credit hours

Introduction to teaching science in elementary schools emphasizing inquiry-based learning practices and effective research-based teaching strategies. Activities include seminars, discussions and experimentation using learning modules targeting Earth and Space and Sciences.

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.

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.

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 and CI 446 (may be taken concurrently) with a minimum grade of C.

Concurrent PR: CI 446

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.

Pre-req: Admitted to Teacher ED with a score of 4.

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.

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.

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 transecentals.

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.

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 seminars 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 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.

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.

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

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 and CI 343 (may be taken concurrently) with a minimum grade of C.

Concurrent PR: CI 343

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.

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 and CI 321 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.

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 PS 121 with a minimum grade of C and PS 122 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.

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.

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.

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.

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.

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.

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.

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.
Pre-req: Admitted to Teacher ED with a score of 4 and CISP 421 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 disabilities. 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.
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.
Co-req: EDF 270
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.
Co-req: EDF 270
Grade Mode: Normal Grading Mode

EDF 270 Level I Clinical Exp A public school Clinical Experience in an elementary school. An opportunity to work with faculty, staff, and students in a teaching/learning environment. Co-req: EDF 201 Grade Mode: Credit/No Credit Grade Only	0 Credit hours
EDF 271 Level I Clinical Exp 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	0 Credit hours
EDF 272 Level I Clinical Exp 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	0 Credit hours
EDF 280 Special Topics Grade Mode: Normal Grading Mode	1-4 Credit hours
EDF 281 Special Topics Grade Mode: Normal Grading Mode	1-4 Credit hours
EDF 282 Special Topics Grade Mode: Normal Grading Mode	1-4 Credit hours
EDF 283 Special Topics Grade Mode: Normal Grading Mode	1-4 Credit hours
EDF 319 Applications Learning Theory 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	3 Credit hours
EDF 406 Foundations of Education 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	3 Credit hours
EDF 417 Statistical Methods A foundation course in descriptive and inferential statistics as applied in education and the social sciences. Attributes: Statistics Grade Mode: Normal Grading Mode	3 Credit hours
EDF 435 Classroom Assessment 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	3 Credit hours
EDF 475 Schools in a Diverse Society 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	3 Credit hours
EDF 480 Special Topics Grade Mode: Normal Grading Mode	1-4 Credit hours
EDF 481 Special Topics Grade Mode: Normal Grading Mode	1-4 Credit hours






EDF 482 Special Topics Grade Mode: Normal Grading Mode	1-4 Credit hours
EDF 483 Special Topics Grade Mode: Normal Grading Mode	1-4 Credit hours
EDF 485 Independent Study Grade Mode: Normal Grading Mode	1-4 Credit hours
EDF 486 Independent Study Grade Mode: Normal Grading Mode	1-4 Credit hours
EDF 487 Independent Study Grade Mode: Normal Grading Mode	1-4 Credit hours
EDF 488 Independent Study Grade Mode: Normal Grading Mode	1-4 Credit hours

Art 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		
<i>Core 1: Critical Thinking</i>		
FYS 100	First Yr Sem Critical Thinking	3
MTH 121  	Concepts and Applications (CT)	3
	Critical Thinking Course	3
<i>Core 2</i>		
ENG 101  	Beginning Composition	3
ENG 201  	Advanced Composition	3
CMM 103  	Fund Speech-Communication	3
MTH 121  	Concepts and Applications (CT)	3
	Natural Science	4
ART 112 	Intro To Visual Art	3
	Social Science	3
	Humanities	3
<i>Additional University Requirements</i>		
	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 113	Art Education: Elementary	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	0
ART 301	Printmaking Processes	3
ART 305	Ceramics	3
ART 307	Sculpture	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 (**Exempt** from PRAXIS Core exam with SAT 1240 or ACT composite 26 or higher),
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 (with the exception of EDF 475 Schools in a Diverse Society)
- 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

Social Science (CT, M/I)	3
Credit Hours	15

Second Year**First Semester**

ART 113	Art Education: Elementary	3
ART 202	History of Art	3
ART 215	Foundations: Form/Space	3
EDF 201	Ed Psych Developing Learner	3
EDF 270	Level I Clinical Exp	0
Any Natural Science Core II Course		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
Any 200 Level Humanities (WI)		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 113 Art Education: Elementary

Biological Science 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

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
Code	Title	Credit Hours
Core Curriculum		
<i>Core 1: Critical Thinking</i>		
FYS 100	First Yr Sem Critical Thinking	3
	Critical Thinking Course	3
	Critical Thinking Course	3
<i>Core 2</i>		
ENG 101	Beginning Composition	3
ENG 201	Advanced Composition	3
CMM 103	Fund Speech-Communication	3
MTH 127	College Algebra-Expanded	3
	or MTH 130	College Algebra
BSC 120	Principles of Biology	4
	Humanities	3
	Fine Arts	3
	Social Science	3
<i>Additional University Requirements</i>		
	Writing Intensive	3
	Writing Intensive	3
	Multicultural or International	3
CI 450	Stu Teach Secondary Ed (Capstone)	12
Teaching Specialization		
MTH 122	Plane Trigonometry	3
MTH 127	College Algebra-Expanded	3
	or MTH 130	College Algebra
BSC 120	Principles of Biology	4
BSC 121	Principles of Biology	4
BSC 227	Human Anatomy	4
	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)	12

Additional College Requirement

CI 350 	Inst Tech & Computing	3
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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 (**Exempt** from PRAXIS Core exam with SAT 1240 or ACT composite 26 or higher),
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 (with the exception of EDF 475 Schools in a Diverse Society)
 - 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.
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 - General Education Course








 - 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		
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	4
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 4
CHM 211  	Principles of Chemistry I 3
CHM 217 	Principles of Chem Lab I 2
CI 350 	Inst Tech & Computing 3
EDF 201	Ed Psych Developing Learner 3
EDF 270	Level I Clinical Exp 0
Social Science (CT, M/I)	3
Credit Hours	18
Second Semester	
BSC 227	Human Anatomy 4
BSC 320	Principles of Ecology 4
CHM 212 	Principles Chemistry II 3
CHM 218 	Principles of Chem Lab II 2
Writing Intensive (Humanities)	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		129-132





















Chemistry 9-Adult, B.A.

 - General Education Course

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Major

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Code	Title	Credit Hours
Core Curriculum		
<i>Core 1: Critical Thinking</i>		
FYS 100	First Yr Sem Critical Thinking	3
Critical Thinking Course		3
Critical Thinking Course		3
<i>Core 2</i>		
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  	Principles of Chemistry I	5
& CHM 217  and Principles of Chem Lab I		
Humanities		3
Social Science		3
Fine Arts		3
<i>Additional University Requirements</i>		
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
Additional College Requirement		
CI 350 🎓	Inst Tech & Computing	3

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 (**Exempt** from PRAXIS Core exam with SAT 1240 or ACT composite 26 or higher),
4. Portfolio in LiveText which includes:
 - Self-Assessment,
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 - 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,
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🌿 - General Education Course

🎓 - 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		
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
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
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

CI 350 	Inst Tech & Computing	3
	International or Multicultural	3
	Writing Intensive (CT)	3
	Free Elective	1
Credit Hours		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
	Writing Intensive (Humanities)	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 120-124

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

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
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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	4
Humanities		3
HST 103	 The World Since 1850 (CT) (Social Science)	3
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	4
CI 248	Intro to Science Elem Ed	3
PS 121	PS for Teachers: Chemistry	3
PS 122	PS for Teachers: Physics	3

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
Additional College Requirement		
CI 350 	Inst Tech & Computing	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 (**Exempt** from PRAXIS Core exam with SAT 1240 or ACT composite 26 or higher),
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 (with the exception of EDF 475 Schools in a Diverse Society)
- 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
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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)	3
MTH 127 	College Algebra-Expanded	3-5
or	or College Algebra	
MTH 130 		
UNI 100	Freshman First Class	1
Credit Hours		16-18

Second Semester



CI 350 	Inst Tech & Computing	3
BSC 105 	Human Biology	4
ENG 201 	Advanced Composition	3
HST 231 	American Hist From 1877 (CT)	3
Fine Arts		3
Credit Hours		16

Second Year

First Semester


CI 101 	Math for Elem Teachers I	3
CI 248	Intro to Science Elem Ed	3
CI 342 	Lit & Lang Arts Methods	3
EDF 201	Ed Psych Developing Learner	3
EDF 270	Level I Clinical Exp	0
Any 200 level Humanities course (WI)		3
Credit Hours		15

Second Semester

CI 201 	Math for Elem Teachers II	3
CI 343	The Process of Reading Part I	3
CI 446	The Process of Reading Part II	3
PS 122	PS for Teachers: Physics	3
HST 230 	American History to 1877 (CT)	3
Free Elective		1
Credit Hours		16

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

PS 121	PS for Teachers: Chemistry	3
Credit Hours		15
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		120-122

English 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 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
Natural Science		4
Fine Arts		3
Social Science		3
Any ENG level 200 Humanities (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		3
Professional Education Core		
CI 350 	Inst Tech & Computing	3
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 (EXEMPT from PRAXIS Core exam with SAT 1240 or ACT composite 26 or higher),
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 (with the exception of EDF 475 Schools in a Diverse Society)
- 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
Fine Arts Elective		3
UNI 100	Freshman First Class	1
Credit Hours		16
Second Semester		
ENG 201 	Advanced Composition	3
Physical/Natural Science		4
Social Science (CT)		3
Any CT designated course		3
International or Multicultural		3
Credit Hours		16
Second Year		
First Semester		
CI 350 	Inst Tech & Computing	3
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	3
ENG 450	World Lit to Renaissance	3
ENG 451	World Lit Since Renaissance	3
Free Elective		3
Credit Hours		24
Second Semester		
CISP 422	Differentiate Instruction	3
ENG 350 	Intro to Textual Analysis	3
Any ENG level 200 Humanities (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		128

General Science 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	4
BSC 121 	Principles of Biology	4
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	3
PS 121	PS for Teachers: Chemistry	3
PS 122	PS for Teachers: Physics	3
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		52












General Science 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		
<i>Core 1: Critical Thinking</i>		
FYS 100	First Yr Sem Critical Thinking	3
GEO 230 	Intro to Meteorology (CT)	4
Critical Thinking Course		3
<i>Core 2</i>		
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	4
Humanities		3
Social Science		3
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	4
BSC 121 🐼	Principles of Biology	4
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		
CI 350 🎓	Inst Tech & Computing	3
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

- Grade Point Average of 2.80 or higher (both MU and overall),
- EDF 201 Ed Psych Developing Learner (grade "C" or better) and EDF 270 Level I Clinical Exp (credit),
- Passing scores on the PRAXIS Core exam – all 3 areas (**Exempt** from PRAXIS Core exam with SAT 1240 or ACT composite 26 or higher),
- 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 (with the exception of EDF 475 Schools in a Diverse Society)
- 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	4





MTH 127  	College Algebra-Expanded or College Algebra	3-5
or MTH 130 		
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	4
MTH 122 	Plane Trigonometry	3
ENG 201  	Advanced Composition	3
Fine Arts		3
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
CI 350 	Inst Tech & Computing	3
EDF 201	Ed Psych Developing Learner	3
EDF 270	Level I Clinical Exp	0
Multicultural or International (CT)		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
Any ENG level 200 Humanities (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 PreK-Adult, B.A.










Admission to this program is currently suspended.

Mathematics 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 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		
<i>Core 1: Critical Thinking</i>		
FYS 100	First Yr Sem Critical Thinking	3
MTH 229 	Calculus/Analytic Geom I (CT)	5
Critical Thinking Course		3
<i>Core 2</i>		
ENG 101  	Beginning Composition	3
ENG 201  	Advanced Composition	3
CMM 103  	Fund Speech-Communication	3
MTH 229  	Calculus/Analytic Geom I (CT)	5
Natural Science		4
Humanities		3
Social Studies		3
Fine Arts		3
<i>Additional University Requirements</i>		
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		
CI 350 	Inst Tech & Computing	3
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 (**Exempt** from PRAXIS Core exam with SAT 1240 or ACT composite 26 or higher),
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 (with the exception of EDF 475 Schools in a Diverse Society)
 - 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
	Fine Arts Elective	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
	Physical or Natural Science	4
	Social Science (M/I)	3
	Credit Hours	17
Second Year		
First Semester		
CI 350 🎓	Inst Tech & Computing	3
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
	Credit Hours	14
Second Semester		
CI 345 🎓	Crit Read Writ & Think	3
CISP 421 🎓	Child with Exceptionalities	3
MTH 331 🐼	Linear Algebra	4
	Any ENG level 200 Humanities (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

Multi-Categorical Special Education 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


Multi-Categorical Special Education 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













Music 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		
<i>Core 1: Critical Thinking</i>		
FYS 100	First Yr Sem Critical Thinking	3
MTH 121 	Concepts and Applications (CT)	3
Critical Thinking Course		3
<i>Core 2</i>		
ENG 101  	Beginning Composition	3
ENG 201  	Advanced Composition	3
CMM 103  	Fund Speech-Communication	3
MTH 121  	Concepts and Applications (CT)	3
Natural Science		4
ART 112 	Intro To Visual Art (Fine Arts)	3
or THE 112  Theatre Appreciation		
Social Science		3
Humanities		3
<i>Additional University Requirements</i>		
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 (**Exempt** from PRAXIS Core exam with SAT 1240 or ACT composite 26 or higher),
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 (with the exception of EDF 475 Schools in a Diverse Society)
- 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		
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
Principle 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
Social Science (CT, WI, M/I)		3
Principal Applied		1
Technique		2
Principle 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
Principle 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
Any 200 level Humanities (WI)		3
MUS 315	Basic Conducting	2
Principal Applied		2
Principle 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
Principle 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 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
Principle Ensemble		1
Principal Applied		2
Credit Hours		18

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
Principal Applied		2
ART 112	Intro To Visual Art (Fine Arts)	3
or THE 112	or Theatre Appreciation	
Principle Ensemble		1
Credit Hours		15

Second Semester

CI 450	Stu Teach Secondary Ed (Capstone)	12
Credit Hours		12
Total Credit Hours		131

Physics 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		
<i>Core 1: Critical Thinking</i>		
FYS 100	First Yr Sem Critical Thinking	3
PS 101	Introductory Astronomy (CT)	4
Critical Thinking Course		3
<i>Core 2</i>		
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	The Dynamic Earth	4
& GLY 210L	and Earth Materials Lab	
Humanities		3
Social Science		3
Fine Arts		3
<i>Additional University Requirements</i>		
Writing Intensive		3
Writing Intensive		3
Multicultural 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		
CI 350	 Inst Tech & Computing	3
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

Major Information

Admission Requirements for ADMI 4

- Grade Point Average of 2.80 or higher (both MU and overall),
- EDF 201 Ed Psych Developing Learner (grade "C" or better) and EDF 270 (credit),
- Passing scores on the PRAXIS Core exam – all 3 areas (**exempt** from PRAXIS Core exam with SAT 1240 or ACT composite 26 or higher),
- Portfolio in LiveText which includes:
 - Self-Assessment,
 - Writing Sample and
 - Three Recommendations,
- 21 ACT composite score,
- MU students: Completion of 26 credit hours,
- Transfer students: Completion of 12 Marshall University credit hours.


Admission Requirements for ADMI 5

- 12 hours of completed Professional Education Core courses,
- 2.8 GPA overall, at MU, and in Teaching Specialization,
- 3.0 GPA in Professional Education Core

Admission Requirements for Student Teaching














- At least 90% of Teaching Specialization courses completed,
 - Minimum of 100 credit hours completed,
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 - 3.0 GPA in Professional Education Core,
 - Completion of all Professional Education Core Courses (with the exception of EDF 475 Schools in a Diverse Society)
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 - General Education Course

 - 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		
GLY 200	 The Dynamic Earth	3
GLY 210L	 Earth Materials Lab	1
MTH 127	  College Algebra-Expanded	3-5
or	or College Algebra	
MTH 130		
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
Social Science (CT)		3
Credit Hours		14

Second Year**First Semester**

CI 350 🎓	Inst Tech & Computing	3
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
Fine Arts		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
Any ENG level 200 Humanities (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 5-9, B.A. (Second Specialization only)

Major

Code	Title	Credit Hours
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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 🌿 or HST 102 🌿	Great Civs to 1300 (CT) World & West 1300-1850 (CT)	3
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
SOS 404	Senior Seminar	3

Professional Education Core

CI 402	Teach Mid Child Learners	3
Student Teaching Capstone (full semester)		12
Total Credit Hours		57

Social Studies 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
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Core Curriculum

<i>Core 1: Critical Thinking</i>		
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
Natural Science		4
Humanities (Any 200 level ENG Humanities and WI)		3
HST 230 	American History to 1877 (CT) (Social Science)	3
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
SOS 404	Senior Seminar	3
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
SOS 404	Senior Seminar	3
Professional Education Core		
CI 350 	Inst Tech & Computing	3
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

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 (**Exempt** from PRAXIS Core exam with SAT 1240 or ACT composite 26 or higher),
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 (with the exception of EDF 475 Schools in a Diverse Society)
 - 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		
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
Fine Arts Elective		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		
CI 350 🎓	Inst Tech & Computing	3
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
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
Any ENG level 200	Humanities (WI)	3
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
SOS 404	Senior Seminar	3
Credit Hours		15

Second Semester

CI 450 🌿	Stu Teach Secondary Ed (Capstone)	12
Credit Hours		12
Total Credit Hours		120

Spanish 5-Adult, B.A.

Admission to this program is currently suspended.

Wellness 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		
<i>Core 1: Critical Thinking</i>		
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
<i>Core 2</i>		
ENG 101 🌿🎓	Beginning Composition	3
ENG 201 🌿🎓	Advanced Composition	3
CMM 103 🌿🎓	Fund Speech-Communication	3
MTH 121 🌿🎓	Concepts and Applications (CT)	3
Natural Science		4
Humanities		3
Social Science		3
Fine Arts		3
<i>Additional University Requirements</i>		
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		
CI 350 	Inst Tech & Computing	3
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 (**Exempt** from PRAXIS Core exam with SAT 1240 or ACT composite 26 or higher),
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 (with the exception of EDF 475 Schools in a Diverse Society)
- 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
Fine Arts Elective		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
Social Science (M/I, WI)		3
PEL activity course		1
Free Elective		1
Credit Hours		14
Second Year		
First Semester		
CI 350 	Inst Tech & Computing	3
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
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
Any ENG level 200 Humanities (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
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 Stroebe, Associate Dean

Website: <http://www.marshall.edu/coepd> (<http://www.marshall.edu/coepd/>)

Programs

- Early Childhood Education, B.A. (p. 258)
- Early Education PK-K, B.A. (Second specialization only) (p. 260)

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.

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.

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.

Pre-req: CI 101 with a minimum grade of D 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** **3 Credit hours**
Introduction to teaching science in elementary schools emphasizing inquiry-based learning practices and effective research-based teaching strategies. Activities include seminars, discussions and experimentation using learning modules targeting Earth and Space and Sciences.
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.
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.
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 and CI 446 (may be taken concurrently) with a minimum grade of C.
Concurrent PR: CI 446
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.
Pre-req: Admitted to Teacher ED with a score of 4.
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.
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.
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.
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.
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 seminars 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.
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.
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.
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
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 and CI 343 (may be taken concurrently) with a minimum grade of C.
Concurrent PR: CI 343
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.
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 and CI 321 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.
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 PS 121 with a minimum grade of C and PS 122 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.
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.
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.
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.
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.
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.
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.
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.

Pre-req: Admitted to Teacher ED with a score of 4 and CISP 421 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 disabilities. 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.**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.

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.

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.

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.

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.

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.

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.

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.

Pre-req: ECE 303.**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.

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.

Pre-req: ECE 303.**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.

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.

Pre-req: ECE 303.

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. Permission required.

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.

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.

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.

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.

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.

Co-req: EDF 270

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.

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.

Co-req: EDF 201

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.

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.

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.

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.

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.

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.

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.

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.

 - General Education Course

 - 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		
<i>Core 1: Critical Thinking</i>		
FYS 100	First Yr Sem Critical Thinking	3
PSY 201 	Introductory Psychology (CT)	3
ECE 102 	Early Childhood Programs (CT)	3
<i>Core 2</i>		
ENG 101 	Beginning Composition	3
ENG 201  	Advanced Composition	3
CMM 103  	Fund Speech-Communication	3
MTH 127   or MTH 130 	College Algebra-Expanded or College Algebra	3-5
Humanities		3
Physical or Natural Science		4
Fine Arts		3
PSY 201 	Introductory Psychology (CT)	3
<i>Additional University Requirements</i>		
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

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 (**Exempt** from PRAXIS Core exam with SAT 1240 or ACT composite 26 or higher)
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-kindergartners, 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
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

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
Any ENG level 200 Humanities	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, Interim Dean; Dr. Paulus Wahjudi, 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.

Departments

- Department of Applied Science and Technology (p. 261)
- Department of Biomedical Engineering (p. 267)
- Department of Civil Engineering (p. 271)
- Department of Computer Sciences and Electrical Engineering (p. 280)
- Weisberg Department of Mechanical Engineering (p. 295)

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. Engineering, 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 CITE 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 CITE Dean's office.

Core Curriculum

Students in CITE 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 CITE are to consult with their advisors for guidance in how to meet these baccalaureate curricular initiatives.

Faculty

cite@marshall.edu

Department of Biomedical Engineering

Dr. David Dampier, Interim Chair

dampierd@marshall.edu (zatar@marshall.edu)

Assistant Professor

Nosoudi, Shim

Department of Civil Engineering

Dr. Isaac Wait, Chair

isaac. (isaac.wait@marshall.edu)wait@marshall.edu

(salema@marshall.edu)

Professors

Begley, Wait, Zatar

Associate Professor

Michaelson

Assistant Professors

Al Zarrad, Bryce, Na, Youn

Weisberg Department of Mechanical Engineering

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Assistant Professor

Hua, Esmaelipour, Salary, Sardahi

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Prof. James McIntosh, Chair

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Professors

Christofero, McIntosh, Simonton, Szwilski

Associate Professor

Liu

Assistant Professor

Surber, Zhang

Department of Applied Science and Technology

Contacts: Prof. James McIntosh, Chair

Website: <http://www.marshall.edu/cecs> (<http://www.marshall.edu/cecs/>)

Overview

Programs

- Occupational Safety and Health, B.S. (p. 263)
- Occupational Safety and Health, Minor (p. 267)
- Safety Technology, Minor (p. 267)

Courses

 - 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) or PHY 211 (may be taken concurrently)) and PHY 202 (may be taken concurrently).

Concurrent PR: SFT 235 and (PHY 201 or PHY 211) and PHY 202

Grade Mode: Normal Grading Mode

SFT 372 Safety & Industrial Tech **3 Credit hours**

Pre-req: SFT 235 (may be taken concurrently) and (MTH 121 (may be taken concurrently) or MTH 123 (may be taken concurrently) or MTH 127 (may be taken concurrently) or MTH 130 (may be taken concurrently) or MTH 122 (may be taken concurrently) or MTH 140 (may be taken concurrently) or MTH 229 (may be taken concurrently) or MTH 229H (may be taken concurrently)).

Concurrent PR: SFT 235 and (MTH 121 or MTH 123 or MTH 127 or MTH 130 or MTH 122 or MTH 140 or MTH 229 or MTH 229H)

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: (PHY 203 (may be taken concurrently) or PHY 212 (may be taken concurrently)) and PHY 204 (may be taken concurrently).

Concurrent PR: (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: (PHY 203 (may be taken concurrently) or PHY 212 (may be taken concurrently)) and PHY 204 (may be taken concurrently).

Concurrent PR: (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 489 (may be taken concurrently) with a minimum grade of C and SFT 454L (may be taken concurrently).

Concurrent PR: SFT 489 and SFT 454L

Co-req: 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 489 (may be taken concurrently) with a minimum grade of C and 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 454 (may be taken concurrently).

Concurrent PR: SFT 489 and SFT 454

Co-req: SFT 454

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 Tech 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 reconstructing the accident based on the facts.

Pre-req: SFT 372 and SFT 375 and SFT 373.

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 489 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.

Pre-req: SFT 372 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 CHM 211 (may be taken concurrently) and CHM 217 (may be taken concurrently).

Concurrent PR: CHM 211 and CHM 217

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) and CHM 218 (may be taken concurrently).

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 and CHM 212 and CHM 218 and (PHY 203 or PHY 212) and PHY 204.

Grade Mode: Normal Grading Mode

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.bcspp.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).



































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		
<i>Core 1: Critical Thinking</i>		
FYS 100	First Yr Sem Critical Thinking	3
SFT 235 	Intro to Occup Safety (CT)	3
PSY 201 	Introductory Psychology (CT)	3
<i>Core 2</i>		
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	4
or BSC 120 	Principles of Biology	
Core II Humanities (WI section)		
PSY 201 	Introductory Psychology (CT)	3
Core II Fine Arts (Milestone course)		
<i>Additional University Requirements</i>		
ENG 354	Scientific & Tech Writing	3
Writing Intensive (rec. Core II Hum)		
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:		
MTH 122  	Plane Trigonometry	3-5
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	
MGT 320	Principles of Management	3

or ACC 215  Accounting Principles (CT)

Stats Elective

Select one of the following:		3
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 Tech	3
SFT 489	Process Safety Mgmt	3
SFT 498	Envir Safety & Health Legis	3
SFT 499	Dev & Mgt of Occup Safety Prog	3
SFT 490 	Safety Internship	3

SFT Elective

Select three of the following:		9
SFT 453 	International Safety & Health	
SFT 458	Hospital Safety	
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	
SFT 497	Occup Safety & Health Prog	
BSC 250 	Microbiol & Human Disease	

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.

Areas of Emphasis















- Pre#Pharmacy, Option (p. 266)

 - General Education Course

 - 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 degree in Occupational Safety and Health offers students the opportunity 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 safety profession is an occupational field concerned with the preservation of both human and material resources through the application of various principles drawn from such disciplines as engineering, education, psychology, physiology, enforcement, hygiene, health, physics and management. "Safety Science" 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.





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	4
Core II Fine Arts (Milestone course)		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	
Credit Hours		14

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 489	Process Safety Mgmt	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 Elective		3
SFT 465	Incident Investigation Tech	3
Credit Hours		14

Fourth Year

First Semester

SFT 454	Industrial Hygiene	3
SFT 454L 	Industrial Hygiene Lab	2
SFT Elective		3
MGT 320 or ACC 215 	Principles of Management or Accounting Principles (CT)	3
SFT 378	Safety Eval & Measurement	3
Credit Hours		14

Second Semester

SFT 499	Dev & Mgt of Occup Safety Prog	3
SFT 490 	Safety Internship	3
SFT Elective		3
Free Elective		3


Free Elective	1
Credit Hours	13
Total Credit Hours	120-124

Pre#Pharmacy, Option









Students may elect to pursue the Pre#Pharmacy option within the B.S. in Safety Technology degree which allows them to take pre-pharmacy prerequisites for Marshall's School of Pharmacy. A minimum Math ACT of 27 (SAT 610) is required in order to take MTH 229 Calculus/Analytic Geom I (CT) without completing additional prerequisite math courses, which would facilitate four-year degree completion. Completion of this degree option does not guarantee acceptance into the Marshall School of Pharmacy program. Please consult the Marshall School of Pharmacy for the complete admission requirements.

For Pharmacy programs offered by other institutions students should frequently consult the pre-health care professional web site (www.marshall.edu/preprof (<https://www.marshall.edu/preprof/>)) to keep abreast of the requirements at the institutions and programs of interest. To increase the strength of the applicant's academic credentials, the completeness of the application, and to plan a strategy for successful admission frequent contact with the pre-health care professional advisor in the College of Science is highly recommended.

 - General Education Course

 - 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		
<i>Core I</i>		
FYS 100	First Yr Sem Critical Thinking	3
or FYS 100H	First Year Seminar-Honors	
Two Critical Thinking Courses (CT)		6
<i>Core II</i>		
ENG 101 	Beginning Composition	6
& ENG 201 	and Advanced Composition	
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)		
Social Science (requirement met in major)		
Humanities (CL, ENG, PHL, or RST labeled Humanities)		3
Fine Arts		
Select one of the following:		3
ART 112 	Intro To Visual Art	
MUS 142 	Music in Society	
THE 112 	Theatre Appreciation	
<i>Additional University Requirements</i>		
Writing Intensive courses (W)		6
Multicultural or International course		3
SFT 235 	Intro to Occup Safety (CT) (International course) (requirement met in major)	




Scientific and Technical Writing

ENG 354	Scientific & Tech Writing	3
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Mathematics

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.




17 Math ACT (Math SAT of 440)

MTH 127 	College Algebra-Expanded	
MTH 122 	Plane Trigonometry	
or MTH 132 	Precalculus with Sci Applica	



19 or 20 Math ACT (Math ACT of 460-490)

MTH 127 	College Algebra-Expanded	
MTH 122 	Plane Trigonometry	
or MTH 132	Precalculus with Sci Applica	




21 or higher Math ACT (Math SAT of 500)

MTH 130 	College Algebra	
MTH 122 	Plane Trigonometry	
or MTH 132 	Precalculus with Sci Applica	











The following courses should also be considered if student is thinking of going on to graduate school in the future. This is a prerequisite for some graduate courses:

MTH 140 	Applied Calculus	
MTH 229 	Calculus/Analytic Geom I (CT)	


24 or higher Math ACT (Math SAT of 560)

Select one of the following:		
MTH 132 	Precalculus with Sci Applica	
MTH 229 	Calculus/Analytic Geom I (CT)	
MTH 229H 	Calculus I Honors (CT)	


Basic Studies for Safety Technology Program


CHM 111	Foundations of Chemistry (required if Math ACT <24)	
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
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	4
BSC 121 	Principles of Biology	4

Management

MGT 320	Principles of Management	3
or ACC 215 	Accounting Principles (CT)	

Statistics Course


Select one of the following:		3
STA 225 	Introductory Statistics (CT)	

PSY 223 	Elem Behavioral Stat
MGT 218	Business Quantitative Methods

Psychology Course

PSY 201 	Introductory Psychology (CT)	3
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Anatomy/Physiology

BSC 227	Human Anatomy	4
BSC 228 	Human Physiology	4

Professional Safety Core

SFT 235 	Intro to Occup Safety (CT)	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 Tech	3
SFT 489	Process Safety Mgmt	3
SFT 498	Envir Safety & Health Legis	3
SFT 499	Dev & Mgt of Occup Safety Prog	3
SFT 490 	Safety Internship (Capstone)	3

Occupational Safety Electives

Select 9 credit hours from the following:		9
SFT 453 	International Safety & Health	
SFT 458	Hospital Safety	
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	
SFT 497	Occup Safety & Health Prog	
BSC 250 	Microbiol & Human Disease	

Free Electives

Select 3 credit hours	3
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Notes

- 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 of no less than a C is required. Courses in the areas of proficiency listed above cannot be completed under the CR/NC course option.
- A minimum of 120 hours is required for graduation.

- The Pre-Pharmacy option is an additional 13-23 hours, depending on math prerequisites.


Additional University Requirements

- Freshman transfer students must complete Core I at Marshall. Core II can be completed with Marshall or transfer courses.
- 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 can be completed with Marshall or transfer courses.

Occupational Safety and Health, Minor

(includes CHM and PHY prerequisites)


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

Safety Technology, Minor

A minor in Safety Technology may be earned by completing the courses taken toward the minor with a minimum average GPA of 2.0.

 - General Education Course

Code	Title	Credit Hours
SFT 235 	Intro to Occup Safety (CT)	3
SFT 372	Safety & Industrial Tech	3
SFT 375	Construction Safety I	3
Two additional SFT courses		6
Total Credit Hours		15

Department of Biomedical Engineering

Contacts: Dr. David Dampier, Interim Dean**Website:** <http://www.marshall.edu/cecs> (<http://www.marshall.edu/cecs/>)

Overview

Programs

- Biomedical Engineering, B.S. (B.S.B.M.E.) (p. 268)

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.

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.

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 of physiological systems and their interactions with therapeutic devices, such as the artificial kidney.

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 Biofluids **3 Credit hours**

Introduction to the fundamentals of fluid mechanics and their application to biological, cardiovascular, respiratory and 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.

Attributes: Capstone Course

Grade Mode: Normal Grading Mode

Biomedical Engineering, B.S. (B.S.B.M.E.)

Contacts: Dr. David Dampier; dampierd@marshall.edu;

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.

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 136 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		
<i>Core 1: Critical Thinking</i>		
FYS 100	First Yr Sem Critical Thinking	3


MTH 229 	Calculus/Analytic Geom I (CT)	5
Critical Thinking Course		3
<i>Core 2</i>		
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	4
Core II Humanities		3
Core II Social Science		3
Core II Fine Arts		3
<i>Additional University Requirements</i>		
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		
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
BSC 120 	Principles of Biology	4
BSC 121 	Principles of Biology	4
BSC 227	Human Anatomy	4
BSC 228 	Human Physiology	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
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
ENGR 214 	Dynamics	3
ENGR 216	Mech of Deformable Bodies	3
ENGR 219	Engineering Thermodynamics	3
or CHM 355	Organic Chemistry I	
ENGR 245	Circuits and Instrumentation	3
ENGR 318	Fluid Mechanics	3
EE 202	Circuits II	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 Biofuils	3
BME 465 	Biomedical Engr Capstone I	2
BME 466 	Biomedical Engr Capstone II	2
<i>BME Technical Electives</i>		
Select four 300- or 400-level biomedical engineering or closely related courses. The courses must be approved by the student's advisor and the department chair.		12

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 136 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	4





ENGR 102	Introduction to CAD	2
	Credit Hours	18

Second Year

First Semester




MTH 231 	Calculus/Analytic Geom III	4
BSC 227	Human Anatomy	4
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	4
ENGR 214 	Dynamics	3
ENGR 216	Mech of Deformable Bodies	3
BSC 228 	Human Physiology	4
	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
ENGR 245	Circuits and Instrumentation	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 Biofuils	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, Interim 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 Engineering, B.S.C.E. (p. 274)
- Engineering, B.S.E. (p. 276)
- Engineering Science, Minor (p. 278)
- Engineering Transfer Program (p. 278)
- Pre-Engineering (p. 280)

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.

Concurrent PR: MTH 132

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.

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.

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.

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.

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: ENGR 318 (may be taken concurrently) with a minimum grade of D and CHM 212 (may be taken concurrently) with a minimum grade of D.

Concurrent PR: ENGR 318 and CHM 212

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.**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 or CE 312.**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.**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: CE 331.**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.**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).

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 481 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 students and faculty.

Grade Mode: Normal Grading Mode**CE 482 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 students and faculty.

Grade Mode: Normal Grading Mode**CE 483 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 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 602 Structural Mechanics****3 Credit hours****Grade Mode:** Normal Grading Mode**CE 604 Buckling of Struct Mem &****3 Credit hours****Grade Mode:** Normal Grading Mode**CE 605 Structural Vibrations****3 Credit hours****Grade Mode:** Normal Grading Mode**CE 611 Plastic Design****3 Credit hours****Grade Mode:** Normal Grading Mode

CE 612 Advanced Steel Design	3 Credit hours	CE 635 Eval of Transportation Systems	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.		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		Grade Mode: Normal Grading Mode	
CE 614 Advanced Concrete Design	3 Credit hours	CE 636 Transportation Planning	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.		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		Grade Mode: Normal Grading Mode	
CE 616 Prestressed Concrete Design	3 Credit hours	CE 637 Highway Safety Engineering	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. Design of prestressed concrete structures; design for flexure, shear, and torsion; camber and deflections; continuity; connections; fire rating; and review of research and projection to changes in practices.		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		Grade Mode: Normal Grading Mode	
CE 618 Bridge Engineering	3 Credit hours	CE 639 Infrastructure Management	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, aesthetics.		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.	
Pre-req: CE 616.		Grade Mode: Normal Grading Mode	
Grade Mode: Normal Grading Mode		CE 650 Special Topics Civil Engr	3 Credit hours
CE 621 Advanced Soil Mechanics	3 Credit hours	Selected topics of special and current interest to civil engineers.	
Grade Mode: Normal Grading Mode		Grade Mode: Normal Grading Mode	
CE 622 Foundation Engineering 2	3 Credit hours	CE 651 Spec Topics Civil Engr	3 Credit hours
Grade Mode: Normal Grading Mode		Selected topics of special and current interest to civil engineers.	
CE 623 Advanced Soil Testing Theory	3 Credit hours	Grade Mode: Normal Grading Mode	
Grade Mode: Normal Grading Mode		CE 652 Spec Topics Civil Engr	3 Credit hours
CE 624 Design of Earth Structures	3 Credit hours	Selected topics of special and current interest to civil engineers.	
Grade Mode: Normal Grading Mode		Grade Mode: Normal Grading Mode	
CE 626 Groundwater Investigation	3 Credit hours	CE 680 Special Topics	3 Credit hours
Grade Mode: Normal Grading Mode		Grade Mode: Normal Grading Mode	
CE 631 Geometric Design of Highways	3 Credit hours	CE 681 Water & Wastewater Engr Dsgn 1	3 Credit hours
Grade Mode: Normal Grading Mode		Grade Mode: Normal Grading Mode	
CE 632 Highway Materials 1	3 Credit hours	CE 682 Water & Wastewater Engr Dsgn 2	3 Credit hours
Grade Mode: Normal Grading Mode		Grade Mode: Normal Grading Mode	
CE 633 Highway Materials 2	3 Credit hours	CE 684 Biol & Physiochem Process	3 Credit hours
Grade Mode: Normal Grading Mode		CE 685 Hydrology	3 Credit hours
CE 634 Traffic Engineering	3 Credit hours	Grade Mode: Normal Grading Mode	
Design and application of signs, markings, and signals; timing of isolated and interconnected signals; speed regulation on one-way streets; capacity and analysis of highway facilities.		CE 686 Hyd/Sedi of Surface Mined Land	3 Credit hours
Grade Mode: Normal Grading Mode		Grade Mode: Normal Grading Mode	
		CE 687 Engineering Geology	3 Credit hours
		Grade Mode: Normal Grading Mode	
		CE 690 Special Topics in Civil Engr	1-6 Credit hours
		Grade Mode: Normal Grading Mode	
		CE 715 Adv Matrix Meth of Struct Anal	3 Credit hours
		Grade Mode: Normal Grading Mode	
		CE 790 Advanced Independent Study	1-6 Credit hours
		Grade Mode: Normal Grading Mode	
		CE 799 Research	1-12 Credit hours
		Grade Mode: Normal Grading Mode	

Civil Engineering, B.S.C.E.

Civil Engineering, B.S.C.E.


The Learning Objectives of the Bachelor of Science in Civil Engineering (B.S.C.E.) program are the following:

1. Practice the civil engineering discipline successfully within community accepted standards.
2. Accomplish personal and professional success with awareness and commitment to their 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.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.

















 - General Education Course

 - 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		
<i>Core I</i>		
FYS 100	First Yr Sem Critical Thinking	3
	Core I Critical Thinking	3

	Core I Critical Thinking	3
<i>Core II</i>		
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	
	Mathematics (Requirement met in major)	3
	Physical or Natural Science (Requirement met in major)	4
	Core II Social Science	3
	Core II Humanities	3
	Core II Fine Arts	3
<i>Additional University Requirements</i>		
	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	Freshman 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
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CE Design, Design Elective and Technical Electives

CE 453 	Capstone Senior Design	3
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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.

<i>CE Design Electives</i>	6
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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	

<i>CE Electives</i>	6
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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.

<i>Technical Elective</i>	3
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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
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First Year**First Semester**




ENGR 103	Freshman 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 	Fund Speech-Communication	3
or	or Bus & Prof Communication	
CMM 207 		
UNI 100	Freshman First Class	1
Credit Hours		17




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		125

Engineering, B.S.E.

The Marshall University Bachelor of Science in Engineering (B.S.E.) program educational objectives are as follows:

1. B.S.E. graduates will be recognized for their success in designing engineering systems that promote the health, safety, and welfare of the public.
2. B.S.E. graduates will demonstrate their awareness of an engineer's role in contemporary society and their understanding of the societal and environmental contexts of engineering projects.
3. B.S.E. graduates will practice in specific areas of engineering that are consistent with the needs of the region served by Marshall University.

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.

Areas Of Emphasis

- Civil Engineering, Emphasis (p. 276)







Civil Engineering, 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		
<i>Core 1: Critical Thinking</i>		
FYS 100	First Yr Sem Critical Thinking	3
Critical Thinking Course		3
Critical Thinking Course		3
<i>Core 2</i>		
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	5
& CHM 217 	and Principles of Chem Lab I	

Core II Humanities	3
Core II Social Science	3
Core II Fine Arts	3
<i>Additional University Requirements</i>	
Writing Intensive	3
Writing Intensive	3
Multicultural or International	3
CE 453  Capstone Senior 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
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 Freshman 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 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
CE 452  Senior Seminar of Civil Engr	1
CE 453  Capstone Senior Design	3

To be eligible to take Senior Capstone 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 of 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 of 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

Technical Elective 3

Select one technical elective that satisfies one of these criteria:


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





- 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 Civil Engineering degree program requires a minimum of 124 credit hours of coursework 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

Civil engineers apply fundamental mathematics and physics to develop solutions to problems that affect the daily lives of citizens. They are multi-skilled and are able to design and conduct experiments, as well as to analyze and interpret complex data. Engineers can design a system, component, or process to meet desired needs within realistic constraints. They can function on multidisciplinary teams and have a solid understanding of professional and ethical responsibility.

Course	Title	Credit Hours
First Year		
First Semester		
ENGR 103	Freshman 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		
CE 102	Introduction to CAD	2
ENGR 111	Engineering Computations	3
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
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 (MC/I, WI)		3
Core II Humanities (WI, CT)		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		125

Engineering Science, Minor

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

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

A. Any student

1. who is a resident of West Virginia,
2. who meets the admission standards for a receiving institution at the time they are admitted by the sending institution,
3. 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

B. Any student

1. who is **not a resident** of West Virginia,
2. who meets the non-resident admission standards for a receiving institution at the time they are admitted by the sending institution, and
3. 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.


- C. 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.












 - General Education Course

 - Milestone course: a key success marker for your major. See your advisor to discuss the importance of this course in your plan of study.

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.

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	Freshman 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
Select one of the following:		2

CHM 212  Principles Chemistry II & CHM 218  and Principles of Chem Lab II ¹	
ENGR 102 Introduction to CAD	
PHY 211  University Physics I & PHY 202  and General Physics I Laboratory	5
Humanities/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 ¹	
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 Engr Cost Analysis & Economy ¹ or ENGR 219 or Engineering Thermodynamics	3
ENGR 216 Mech of Deformable Bodies ¹ or EE 202 or Circuits II	3
Credit Hours	17
Total Credit Hours	68

¹ See advisor; course not required by all disciplines.

Pre-Engineering

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.

Academic 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.

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. The following is a suggested schedule for Pre-Engineering majors.

In the tables that follow, the following notation is used:

- R = required
- A = see advisor

Math ACT 19-22 (SAT 460-530)

Course	Title	Credit Hours
First Semester		
ENG 101 	Beginning Composition (R)	3
ENGR 103	Freshman Engineering Seminar (R)	1
MTH 127  or MTH 130 	College Algebra-Expanded (R) (Placement is based on ACT/SAT math scores.) or College Algebra	3-5
SFT 235 	Intro to Occup Safety (CT) (A)	3
FYS 100	First Yr Sem Critical Thinking (A)	3
UNI 102	Strat for Academic Success (R)	1
Credit Hours		14-16
Second Semester		
MTH 132 	Precalculus with Sci Applica (R)	5
CHM 111	Foundations of Chemistry (R)	3
Option: Core II Course (CT) (A)		3
Fine Arts (A)		3
Communication Course (A)		3
Credit Hours		17
Total Credit Hours		31-33

Department of Computer Sciences and Electrical Engineering

Contacts: Dr. Wook-Sung Yoo, chair

Website: <http://www.marshall.edu/cecs> (<http://www.marshall.edu/cecs/>)

Overview

Programs

- Computer and Information Security, B.S. (p. 288)
- Computer Science, B.S. (p. 290)
- Computer Science, Minor (p. 292)

- Electrical and Computer Engineering, B.S.E.E. (p. 292)
- Pre-Computer Science (p. 294)

Courses

 - General Education Course

Computer & Info Security

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.

Attributes: Critical Thinking

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

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 or CS 110H.

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 hashing, 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 and MTH 220 (may be taken concurrently).

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 and (MTH 229 or MTH 229H) and MTH 220 (may be taken concurrently).

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.

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.

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.

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, concurrency 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 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.

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.**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.**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.**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.

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.**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-infrastructure from various cyber threats.

Pre-req: CS 430 or CS 340.**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 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 approval of the internship director, who is a member of the computer science faculty. Pre-req: CS 300 or CS 215. Grade Mode: Credit/No Credit Grade Only	3-12 Credit hours	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 or CS 110 or CS 110H. Grade Mode: Normal Grading Mode
CS 480 Special Topics EMERGING TOPICS IN COMPUTER SCIENCE. Grade Mode: Normal Grading Mode	1-4 Credit hours	CYBR 310 Introduction to Cryptography 3 Credit hours This course covers the basic aspects of modern cryptography, 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
CS 481 Special Topics EMERGING TOPICS IN COMPUTER SCIENCE. Grade Mode: Normal Grading Mode	1-4 Credit hours	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. Grade Mode: Normal Grading Mode
CS 482 Special Topics EMERGING TOPICS IN COMPUTER SCIENCE. Grade Mode: Normal Grading Mode	1-4 Credit hours	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
CS 483 Special Topics EMERGING TOPICS IN COMPUTER SCIENCE. Grade Mode: Normal Grading Mode	1-4 Credit hours	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: CYBR 320. Grade Mode: Normal Grading Mode
CS 485 Independent Study EMERGING TOPICS IN COMPUTER SCIENCE. Grade Mode: Normal Grading Mode	1-4 Credit hours	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
CS 486 Independent Study EMERGING TOPICS IN COMPUTER SCIENCE. Grade Mode: Normal Grading Mode	1-4 Credit hours	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-infrastructure from various cyber threats. Pre-req: CYBR 330 or CS 330. Grade Mode: Normal Grading Mode
CS 487 Independent Study EMERGING TOPICS IN COMPUTER SCIENCE. Grade Mode: Normal Grading Mode	1-4 Credit hours	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
CS 488 Independent Study EMERGING TOPICS IN COMPUTER SCIENCE Grade Mode: Normal Grading Mode	1-4 Credit hours	
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 and CS 410. Attributes: Capstone Course Grade Mode: Normal Grading Mode	3 Credit hours	
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	3 Credit hours	
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	3 Credit hours	

CYBR 475 Internship**3 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.

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 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: CYBR 330.

Attributes: Capstone Course

Grade Mode: Normal Grading Mode

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, Boolean 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 provides 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 probability theory applied to engineering problems, including elementary set operations, sample spaces and probability laws, conditional probability and independence.

Pre-req: MTH 231 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.

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 Communication 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 and EE 412.

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, impedance 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 and EE 310.

Grade Mode: Normal Grading Mode

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.

Attributes: Critical Thinking

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

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 or CS 110H.

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 hashing, 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 and MTH 220 (may be taken concurrently).

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 and (MTH 229 or MTH 229H) and MTH 220 (may be taken concurrently).

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.

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.

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.

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, concurrency 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 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.

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.**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.**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.**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.

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.**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-infrastructure from various cyber threats.

Pre-req: CS 430 or CS 340.**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 approval of the internship director, who is a member of the computer science faculty.

Pre-req: CS 300 or CS 215.**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 EMERGING TOPICS IN COMPUTER SCIENCE. Grade Mode: Normal Grading Mode	1-4 Credit hours
CS 485 Independent Study EMERGING TOPICS IN COMPUTER SCIENCE. Grade Mode: Normal Grading Mode	1-4 Credit hours
CS 486 Independent Study EMERGING TOPICS IN COMPUTER SCIENCE. Grade Mode: Normal Grading Mode	1-4 Credit hours
CS 487 Independent Study EMERGING TOPICS IN COMPUTER SCIENCE. Grade Mode: Normal Grading Mode	1-4 Credit hours
CS 488 Independent Study EMERGING TOPICS IN COMPUTER SCIENCE Grade Mode: Normal Grading Mode	1-4 Credit hours
CS 490 🦋 Senior Project 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 and CS 410. Attributes: Capstone Course Grade Mode: Normal Grading Mode	3 Credit hours
CS 491 Senior Project II 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	3 Credit hours

Computer and Information Security, B.S.

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		
<i>Core 1: Critical Thinking</i>		
FYS 100	First Yr Sem Critical Thinking	3
MTH 229 🦋	Calculus/Analytic Geom I (CT)	5
Critical Thinking Course		3
<i>Core 2</i>		
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 (w/ Lab)	4
Core II Humanities		3
Core II Social Science		3
Core II Fine Arts		3
<i>Additional University Requirements</i>		
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
BSC 120		Principles of Biology	4
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
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		Compter 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			3
Free Elective			2

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 (w/ Lab)	4
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	Compter 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 Science, B.S.

Dr. Wook-Sung Yoo, Chair

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		
<i>Core 1: Critical Thinking</i>		
FYS 100	First Yr Sem Critical Thinking	3
MTH 229 🐼	Calculus/Analytic Geom I (CT)	5
	Critical Thinking Course	3
<i>Core 2</i>		
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
<i>Additional Univeristy Requirements</i>		
	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	Principles of Biology (or above)	
CHM 211	Principles of Chemistry I	
& CHM 217	and Principles of Chem Lab I (or above)	
GLY 200	The Dynamic Earth	
& GLY 210L	and Earth Materials Lab (or above)	
PHY 201	College Physics I	
& PHY 202	and General Physics I Laboratory (or above)	
PHY 211	University Physics I	
& PHY 202	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 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 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

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

Electrical and Computer Engineering, B.S.E.E.

Dr. Wook-Sung Yoo, Department Chair
 yoow@marshall.edu (salema@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		
<i>Core 1: Critical Thinking</i>		
FYS 100	First Yr Sem Critical Thinking	3
MTH 229 	Calculus/Analytic Geom I (CT)	5
Critical Thinking Course		3
<i>Core 2</i>		
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
<i>Additional University Requirements</i>		
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	Freshman 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	Communication 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 Communication 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	Freshman 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	Communication 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	Electrical Engineering Design	3
or EE 412	or Computer Engineering Design	
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


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 Engineering

Contacts: Dr. Tony Szwilski, Interim Chair

Website: <http://www.marshall.edu/cecs> (<http://www.marshall.edu/cecs/>)

Programs

- Mechanical Engineering, B.S.M.E. (p. 300)

Courses

 - General Education Course

Biomedical Engineering

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.

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.

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 of physiological systems and their interactions with therapeutic devices, such as the artificial kidney.

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 Biofluids 3 Credit hours

Introduction to the fundamentals of fluid mechanics and their application to biological, cardiovascular, respiratory and 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.**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, Boolean 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 provides 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 probability theory applied to engineering problems, including elementary set operations, sample spaces and probability laws, conditional probability and independence.

Pre-req: MTH 231 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.**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 Communication 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 and EE 412.

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, impedance 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 and EE 310.

Grade Mode: Normal Grading Mode

Engineering & Science

ENGR 102 Introduction to CAD 2 Credit hours

An introduction of scales, plan reading, engineering graphics and computer aided designing. Introduction 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.

Concurrent PR: MTH 132

Grade Mode: Normal Grading Mode

ENGR 103 Freshman 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 disciplines; introduction to the engineering design process and team projects.

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 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 applications. (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 or MTH 229H.**Grade Mode:** Normal Grading Mode**ENGR 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.**Grade Mode:** Normal Grading Mode**ENGR 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 (may be taken concurrently) with a minimum grade of D and PHY 213 (may be taken concurrently) with a minimum grade of D.**Concurrent PR:** MTH 230 and PHY 213**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 properties, 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 231 (may be taken concurrently) with a minimum grade of D.

Concurrent PR: MTH 231

Grade Mode: Normal Grading Mode

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 452 Senior Capstone Design I**2 Credit hours**

Prepares students for engineering practice by focusing on licensure, ethics, and professional responsibility. Students begin work on senior capstone design projects that are finished the following semester in ENGR 453. (PR: Senior Standing in Engineering; Permission)

Co-req: ENGR 451

Attributes: No Textbook Required

Grade Mode: Normal Grading Mode

ENGR 453 🌱 Senior 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. (PR: ENGR 451, ENGR 452)

Pre-req: ENGR 452 with a minimum grade of D.

Attributes: Capstone Course, No Textbook Required

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

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 be covered.

Pre-req: MTH 132 (may be taken concurrently) with a minimum grade of D.

Concurrent PR: MTH 132

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 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: ENGR 318 with a minimum grade of D and ME 310 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 manufacturability evaluation at the design stage, automation, IMS.

Pre-req: ENGR 102 and ENGR 215.

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.

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: ME 310 with a minimum grade of D and ENGR 318 with a minimum grade of D.

Grade Mode: Normal Grading Mode

ME 360 Fluid Dynamics**3 Credit hours**

The following topics will be covered: internal and external flows; compressible flows; power and efficiency; fluid machinery; turbulence; fluid dynamics; non-Newtonian flows.

Pre-req: ENGR 318 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: ENGR 245 with a minimum grade of D and ENGR 335 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.

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 350.

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: ENGR 240 and ME 320.

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 acquisition, 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: ENGR 240.

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.

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: ENGR 245 and MTH 345.

Grade Mode: Normal Grading Mode

ME 480 Special Topics**1-4 Credit hours**

Subject matter to be selected 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

Mechanical Engineering, B.S.M.E.

Dr. Tony Szwilski, Interim Department Chair
szwilski@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. Demonstrate teamwork and communication skills for a successful career
3. Fulfill professional and ethical responsibilities in the practice of mechanical 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.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 132 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 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		
<i>Core 1: Critical Thinking</i>		
FYS 100	First Yr Sem Critical Thinking	3
or FYS 100H	First Year Seminar-Honors	
MTH 229	Calculus/Analytic Geom I (CT)	5
	Critical Thinking Course	3
<i>Core 2</i>		
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	5
& PHY 202	and General Physics I Laboratory	
	Core II Humanities	3
	Core II Social Science	3
	Core II Fine Arts	3
<i>Additional University Requirements</i>		
	Writing Intensive	3
	Writing Intensive	3
	Multicultural or International	3
ENGR 452	Senior Capstone Design I ¹	2
ENGR 453	Senior Capstone Design II ²	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
PHY 204		General Physics 2 Laboratory	1
ENGR 102		Introduction to CAD	2
ENGR 103		Freshman 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 240		Manufacturing Processes	3
ENGR 245		Circuits and Instrumentation	3
ENGR 318		Fluid Mechanics	3
ENGR 335		Adv Engineering Analysis	3
ENGR 451		Intro to Proj Management	3
ENGR 452		Senior Capstone Design I ¹	2
ENGR 453		Senior Capstone Design II ²	3
ME 111		Mech Engineering Computations	3
ME 310		Thermodynamics II	3
ME 455		Metallurgy	3
ME 325		Experimental Design and Thermo	2
ME 340		Machine Element Design	3
ME 350		Heat Transfer	3
ME 360		Fluid Dynamics	3
ME 410		Kinematics & Design of Machine	3
ME 420		Control Systems	3
ME 425		Mechanical Engineering Lab-II	1
ME Design Elective			
ME 430		Design of Thermal Systems	3
or ME 435		Design of Mechanical System	
ME Technical Elective			
Select at least three technical electives from the following:			9
Any 300-level or higher ME course not taken to satisfy other B.S.M.E. degree 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 ENGR 452 Senior 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 ENGR 453 Senior Capstone Design II, students must have completed ENGR 451 Intro to Proj Management, ENGR 452 Senior 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 Bachelors 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	Freshman 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
UNI 100	Freshman First Class	1
Credit Hours		17
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
ENGR 245	Circuits and Instrumentation	3
MTH 231 	Calculus/Analytic Geom III	4
PHY 213 	University Physics II	4

PHY 204 🌿	General Physics 2 Laboratory	1
Credit Hours		18
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
ENGR 240	Manufacturing Processes	3
MTH 335 🌿🎓	Ordinary Diff Equations	3
Credit Hours		16
Third Year		
First Semester		
ENGR 318 🎓	Fluid Mechanics	3
Core II Social Science (MC/I, WI)		3
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		18
Second Semester		
ME 420	Control Systems	3
ME 325	Experimental Design and Thermo	2
ME 350 🎓	Heat Transfer	3
ME 410	Kinematics & Design of Machine	3
ME 360	Fluid Dynamics	3
ENG 201 🌿🎓	Advanced Composition	3
Credit Hours		17
Fourth Year		
First Semester		
ENGR 451	Intro to Proj Management	3
ENGR 452 🎓	Senior Capstone Design I	2
ME 425	Mechanical Engineering Lab-II	1
ME Technical Elective		3
Core II Fine Art		3
ME Design Elective		3
Credit Hours		15
Second Semester		
ENGR 453 🌿	Senior Capstone Design II	3
ME 455	Metallurgy	3
ME Technical Elective		3
ME Technical Elective		3
Core II Humanities (WI, CT)		3
Credit Hours		15
Total Credit Hours		133

cohpc@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. 305)
- Communication Disorders (p. 312)
- Dietetics (p. 316)
- Health Sciences (p. 319)
- Kinesiology (p. 324)
- Medical Imaging (p. 347)
- Nursing (p. 357)
- Pre-Health, Major (p. 367)

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/>)

- Respiratory Care (p. 367)
- Social Work (p. 372)




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  or ENG 201H  English Comp Honors	Beginning Composition and Advanced Composition	6
Communication Studies		3
Fine Arts		3
Humanities		3
Math		3
Physical/Natural Science		4
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

- Students with an ACT score of 28-33 are encouraged to take ENG 201H English Comp Honors. Upon completion of this class with a minimum grade of "C" or better, students will receive six hours of credit to count toward ENG 101 Beginning Composition and ENG 201 Advanced Composition. If a student receives a grade of "D", the student will only receive three hours of credit toward ENG 201 Advanced Composition and must either repeat ENG 201H English Comp Honors or go back and take ENG 101 Beginning Composition. Students **must** receive a grade of "C" or better in ENG 201 Advanced Composition. Students who receive a grade of "D" in ENG 201 Advanced Composition must repeat the course for a higher grade.

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: <http://www.marshall.edu/cohp> (<http://www.marshall.edu/cohp/>)

clinical@marshall.edu

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 data 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. 307)
- Medical Laboratory Technician, A.A.S. (p. 310)

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.

Attributes: Critical Thinking

Grade Mode: Normal Grading Mode

CLS 200 Clinical Biochemistry 4 Credit hours

Theory and practice of clinical laboratory testing of serum, plasma, urine, body fluids in disease diagnosis. 3 lec-2 lab.

Grade Mode: Normal Grading Mode

CLS 210 Clinical Immunohematology 4 Credit hours

Theory of immune mechanisms in the body and applications for diagnostic testing and blood transfusion. 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 220 Clinical Microbiology 4 Credit hours 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 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. Grade Mode: Normal Grading Mode
CLS 230 Clinical Hematology 4 Credit hours Theory and practice of clinical laboratory tests of red and white blood cells, as well as blood clotting. 3 lec-3 lab. 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 255 Clinical Lab Problems 3 Credit hours Case studies of instrumental and diagnostic problems encountered by the laboratory technician. 3 lec. 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 400 Adv Clinical Chemistry 2 Credit hours 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 270 Clin Practicum Hematology 3 Credit hours Total of 4 weeks (160 hours) of hospital-based practice, performance of diagnostic tests of blood cells, urine, coagulation, and clinical microscopy under supervision. 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 410 Adv Clin Immunohematology 2 Credit hours Advanced theory and on-campus laboratory practice in clinical hematology and blood banking. Students learn in-depth diagnostic work-up and problem solving involving patients with anemia, leukemia, and bleeding disorders. Pre-req: CLS 272 with a minimum grade of C. 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 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 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. Pre-req: CLS 255 with a minimum grade of C. Co-req: CLS 270, CLS 271, CLS 273 Grade Mode: Normal Grading Mode	CLS 430 Adv Clinical Hematology 3 Credit hours Advanced theory in clinical hematology. Students learn in-depth diagnostic work-up problem solving involving patients with anemia, leukemia, and bleeding disorders. Pre-req: CLS 230 with a minimum grade of C. 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. Pre-req: CLS 255 with a minimum grade of C. Co-req: CLS 270, CLS 271, CLS 272 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. 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 285 Independent Study 1-4 Credit hours Attributes: No Textbook Required Grade Mode: Normal Grading Mode	CLS 464 Lab Instrumen Inform Sys 3 Credit hours Principles of instrumental electronics and data systems; interpretation of instrumental outputs, troubleshooting, computerized statistical methods. 2 lec- 2 lab. Grade Mode: Normal Grading Mode
CLS 286 Independent Study 1-4 Credit hours Grade Mode: Normal Grading Mode	CLS 466 Diagnostic Physiology 3 Credit hours Pathologic aspects of laboratory medicine with case studies, diagnostic problem solving, student projects. 3 lec. Grade Mode: Normal Grading Mode
CLS 287 Independent Study 1-4 Credit hours Grade Mode: Normal Grading Mode	CLS 468 🌿 Clinical Lab Research 3 Credit hours Directed independent research in a subject of practical interest in clinical laboratory practice. One of three courses, CLS 468, 471, 491, taken concurrently. Attributes: Capstone Course, No Textbook Required Grade Mode: Normal Grading Mode
CLS 288 Independent Study 1-4 Credit hours Grade Mode: Normal Grading Mode	

CLS 472 Adv CLS Clinical Practicum I 1-3 Credit hours

Advanced theory, practice, problem solving, and critical thinking in the clinical laboratory areas of clinical hematology and/or transfusion services.

Grade Mode: Normal Grading Mode

CLS 473 Adv CLS Clinical Practicum II 1-3 Credit hours

Advanced theory, practice, problem solving, and critical thinking in the clinical laboratory areas of clinical chemistry and/or clinical microbiology.

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

For Medical Technology students. Students and faculty present and critique articles from recent clinical laboratory-related publications.

Grade Mode: Normal Grading Mode

Faculty

Professor

Perry

Associate Professors

Amjad, 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.

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.

Advanced Clinical Practicum/ Applied Learning Experiences

As part of assessing clinical proficiency, students will be required to take cumulative online examinations in each discipline and pass with a minimum score of 70%. Students who do not have the minimum 70% on cumulative exams will participate in online remediation projects as part of Advanced Clinical Practicum courses at the end of the program. There is not a full clinical rotation for the on line 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 Instrument 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.





 - General Education Course

 - 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		
<i>Core 1: Critical Thinking</i>		
FYS 100	First Yr Sem Critical Thinking	3
CLS 105 	Medical-Lab Terminology (CT)	3
SOC 200  	Introductory Sociology (CT)	3
<i>Core 2</i>		
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	4
Core II Humanities (WI)		3
SOC 200  	Introductory Sociology (CT) (MC, WI)	3
Core II Fine Arts		3
<i>Additional University Requirements</i>		
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	4
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	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	1-3
CLS 473	Adv CLS Clinical Practicum II	1-3
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	4
CLS 200 	Clinical Biochemistry	4
CLS 230	Clinical Hematology	4
ENG 201 	Advanced Composition	3
	Credit Hours	15
Second Semester		
BSC 228 	Human Physiology	4
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
Free Elective		3
	Credit Hours	15

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	1-3
CLS 473	Adv CLS Clinical Practicum II	1-3
CLS 468 	Clinical Lab Research (Capstone)	3
Free Elective		3
	Credit Hours	11-15
	Total Credit Hours	123-127


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	4
BSC 228 🌿	Human Physiology	4
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. 313)
- Communication Disorders, Minor (p. 315)

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

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
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)
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.
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 PR: CD 229 and CD 239
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.
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.
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.
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. (PR: CD 429 and CD 439)
Attributes: Writing Intensive
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. (PR: CD 422, CD 422L CD 425m CD 420, CD 468, CD 460, and CD 430; CR: CD 424L)

Grade Mode: Normal Grading Mode

CD 424L DX Processes Laboratory 1 Credit hour

Observation and practice in evaluating individuals with communication disorders. [PR CD 426, CD 422L, CD 426L, permission of instructor, CR: CD 424]

Pre-req: CD 422L and CD 426L (may be taken concurrently) and CD 424 (may be taken concurrently).

Concurrent PR: CD 426L and CD 424

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)

Grade Mode: Normal Grading Mode

CD 427L TX Procedures II Lab 1 Credit hour

Observation and in-depth analysis of the clinical process. (PR: CD 426L, CR: CD 427)

Grade Mode: Credit/No Credit Grade Only

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)

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.

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)

Grade Mode: Normal Grading Mode

CD 470L Therapeutic Prodecures Lab 2 Credit hours

Guided and independent observation and analysis of the clinical process.

Attributes: No Textbook Required

Grade Mode: Credit/No Credit Grade Only

CD 472 Clin Prac School Children 6 Credit hours

Supervised clinical practice with school-aged children; fulfills student teaching requirements for West Virginia Certification as a Speech Language Pathologist.

Pre-req: CD 468.

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

Assistant Professors

Adams, Agnello, Bailey, Brown, Clemins, Cottrell, Dean, Harlow, Kemper, Maxwell, Young

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		
<i>Core 1: Critical Thinking</i>		
FYS 100 	First Yr Sem Critical Thinking	3
MTH 121  	Concepts and Applications (CT)	3


PSY 201  	Introductory Psychology (CT)	3
<i>Core 2</i>		
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
<i>Additional University Requirements</i>		
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
Core II Social Science		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
PSY 201  	Introductory Psychology (CT)	3
Foreign Language		3
Multicultural/International		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:		
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
Total Credit Hours	12

Dietetics

Contacts: Dr. Kelli Williams, Chair
Website: <http://www.marshall.edu/cohp> (<http://www.marshall.edu/cohp/>)

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, 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 (RDN). 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. Scores on these examinations will reflect 20% of the final course grade. In addition, 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. 317)

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.	
Pre-req: DTS 210 with a minimum grade of D.	
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.	
Pre-req: DTS 202.	
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.

Pre-req: DTS 202 and BSC 250.**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.

Pre-req: DTS 301.**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.

Pre-req: DTS 201.**Grade Mode:** Normal Grading Mode**DTS 314 Nutrition & Diet Therapy****3 Credit hours**

Principles of human nutrition and their application to healthy individuals and to the treatment and prevention of disease.

Pre-req: (CHM 203 or CHM 205 or CHM 211) and BSC 228.**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.

Pre-req: (DTS 201 with a minimum grade of D or DTS 210 with a minimum grade of D) and BSC 227 with a minimum grade of D.**Grade Mode:** Normal Grading Mode**DTS 403 Advanced Nutrition****3 Credit hours**

An in-depth study of digestion, absorption, and metabolism of macronutrients; maintaining homeostasis in the body is also discussed in relationship to fluid, electrolyte, and acid-base balance.

Pre-req: DTS 320 and BSC 227.**Grade Mode:** Normal Grading Mode**DTS 409 Nutrition in Community****3 Credit hours**

Nutritional needs of communities and the dietitian's role in addressing them are identified, and community nutrition programs are closely examined.

Pre-req: (DTS 201 with a minimum grade of D or DTS 210 with a minimum grade of D) and DTS 202 with a minimum grade of D.**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.

Grade Mode: Normal Grading Mode**DTS 468 Chemistry of Food****3 Credit hours**

Experimental study of chemical and physical factors affecting food preparation.

Pre-req: DTS 202.**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.

Pre-req: DTS 320 (may be taken concurrently) and BSC 228.**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.

Pre-req: DTS 469.**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.

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

Assistant Professor

Gannon, Mount

Dietetics, 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		
<i>Core 1: Critical Thinking</i>		
FYS 100	First Yr Sem Critical Thinking	3
PSY 201 🌱 🎓	Introductory Psychology (CT)	3
SOC 200 🌱 🎓	Introductory Sociology (CT) ((W))	3
<i>Core 2</i>		
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	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
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DTS 476	 Senior Seminar in DTS (Capstone)	3
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Major-Specific


ACC 310	 Acct for Entrepreneurs	3
or ACC 215	 Accounting Principles (CT)	


BSC 227	Human Anatomy	4
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BSC 250	 Microbiol & Human Disease	4
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CHM 211	 Principles of Chemistry I	3
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CHM 217	 Principles of Chem Lab I	2
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CHM 212	 Principles Chemistry II	3
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CHM 218	 Principles of Chem Lab II	2
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CHM 327	Intro Organic Chemistry	3
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CLS 105	 Medical-Lab Terminology (CT)	3
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CLS 200	 Clinical Biochemistry	4
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DTS 210	 Nutrition	3
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DTS 202	Introductory Foods	4
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DTS 215	 Assess and Ed Strat in DTS	3
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DTS 301	FS Safety & Systems Mgt I	4
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DTS 302	FS Safety & Sys Mgt II	4
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DTS 310	Life Span Nutrition	3
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DTS 320	 Intermediate Nutrition	3
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DTS 403	Advanced Nutrition	3
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DTS 409	Nutrition in Community	3
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DTS 410	Cross Cultural Foods	3
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DTS 460	 Research in Dietetics	3
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DTS 468	Chemistry of Food	3
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DTS 469	Medical Nutr Therapy I	3
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DTS 470	Medical Nutrition Therapy	3
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DTS 476	 Senior Seminar in DTS (Capstone)	3
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ESS 345	Exercise Physiology	3
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STA 225	 Introductory Statistics (CT)	3
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Free Elective		3
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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.
- 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		
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	 College Algebra	3
UNI 100	Freshman First Class	1
Credit Hours		15



Second Semester		
BSC 227	Human Anatomy	4
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	4
CLS 105	 Medical-Lab Terminology (CT)	3
ENG 201	 Advanced Composition	3
PSY 201	 Introductory Psychology (CT)	3
DTS 210	 Nutrition	3
Credit Hours		16





Second Semester		
BSC 228	 Human Physiology	4
CLS 200	 Clinical Biochemistry	4
DTS 202	Introductory Foods	4

DTS 310	Life Span Nutrition	3
	Credit Hours	15


Third Year**First Semester**

CHM 327	Intro Organic Chemistry	3
DTS 320 	Intermediate Nutrition	3
DTS 409	Nutrition in Community	3
STA 225 	Introductory Statistics (CT)	3
Core II Humanities (WI)		3
	Credit Hours	15

Second Semester

ACC 310 	Acct for Entrepreneurs	3
or ACC 215 	or Accounting Principles (CT)	
DTS 215 	Assess and Ed Strat in DTS	3
DTS 403	Advanced Nutrition	3
DTS 460 	Research in Dietetics	3
Core II Fine Arts		3
	Credit Hours	15

Fourth Year**First Semester**

DTS 301	FS Safety & Systems Mgt I	4
DTS 468	Chemistry of Food	3
DTS 469	Medical Nutr Therapy I	3
DTS 476 	Senior Seminar in DTS (Capstone)	3
Free Elective		3
	Credit Hours	16

Second Semester

DTS 302	FS Safety & Sys Mgt II	4
DTS 470	Medical Nutrition Therapy	3
ESS 345	Exercise Physiology	3
DTS 410	Cross Cultural Foods	3
	Credit Hours	13
	Total Credit Hours	120

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. 322)

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

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

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

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

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 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.

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.

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 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.

Concurrent PR: HS 201 or HS 222 or BSC 227

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.

Pre-req: HS 220 with a minimum grade of D.

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 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 evaluation 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.
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.
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 Instrument Mat Lab** **3 Credit hours**
 This course teaches students the skills to use biomechanical sensors as instruments for research, and the use of MatLab programming language to process the data they collect from their instruments.
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.
Pre-req: HS 365 and HS 465.
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 environment 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

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 	Principles of Biology	
BSC 250 	Microbiol & Human Disease	
DTS 210	Nutrition	
HP 480	Special Topics in HP	
ECN 200	Survey of Economics	
CT, MC/I		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 	Principles of Biology	
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

Statistics		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. 330)
- Biomechanics, B.S. (p. 335)
- Exercise Science, B.S. (p. 338)
- Exercise Science, Minor (p. 343)
- Health and Wellness, Minor (p. 343)
- Sport Management, B.S. (p. 343)
- Sport Management, Minor (p. 347)
- Sport Studies, Minor (p. 347)

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.	
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.

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.

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.

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.

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.

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.

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.

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.

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 Energy Sources Body Comp 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.

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.
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 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.

Concurrent PR: HS 201 or HS 222 or BSC 227
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.

Pre-req: HS 220 with a minimum grade of D.
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 280 Special Topics Grade Mode: Normal Grading Mode	1-4 Credit hours	HS 369 Motor Learning 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	3 Credit hours
HS 281 Special Topics Grade Mode: Normal Grading Mode	1-4 Credit hours	HS 405 Sport Psychology 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	3 Credit hours
HS 282 Special Topics Grade Mode: Normal Grading Mode	1-4 Credit hours	HS 410 Organ Admin in Athletic Trng 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	3 Credit hours
HS 283 Special Topics Grade Mode: Normal Grading Mode	1-4 Credit hours	HS 423 Ortho Assess Upper Extremity 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	4 Credit hours
HS 321 School Health Program Pre-req: HS 221 or HE 221 or HS 220 or HE 220. Grade Mode: Normal Grading Mode	3 Credit hours	HS 424 Ortho Assess Lower Extremity 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	4 Credit hours
HS 335 Worksite Health Assessment An investigation into worksite health assessment models and modes. Pre-req: HS 235 with a minimum grade of C. Grade Mode: Normal Grading Mode	3 Credit hours	HS 430 Health Iss in PE & Ath Grade Mode: Normal Grading Mode	3 Credit hours
HS 336 Org & Admin Worksite Wellness 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	3 Credit hours	HS 435 Biomech Instrument Mat Lab This course teaches students the skills to use biomechanical sensors as instruments for research, and the use of MatLab programming language to process the data they collect from their instruments. 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	3 Credit hours
HS 345 Worksite Wellness Prescription 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	3 Credit hours	HS 440 Health Eval Ath Trn I Pre-req: HS 423. Grade Mode: Normal Grading Mode	3 Credit hours
HS 346 Eval Worksite Wellness Program 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	3 Credit hours	HS 448 Therapeutic Interventions I 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	4 Credit hours
HS 360 AT Clinical Exp: Level II To continue developing athletic training evaluation 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	2 Credit hours	HS 449 Therapeutic Interventions II 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	4 Credit hours
HS 361 AT Clinical Exp: Level III 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	2 Credit hours		
HS 365 Functional Kinesiology 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	3 Credit hours		

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.

Pre-req: HS 365 and HS 465.**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 environment 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.**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.**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 Attributes: PE Activity Grade Mode: Normal Grading Mode	1 Credit hour	PEL 233 Intermediate Gymnastics Attributes: PE Activity Grade Mode: Normal Grading Mode	1 Credit hour
PEL 142 Beginning Badminton Attributes: No Textbook Required, PE Activity Grade Mode: Normal Grading Mode	1 Credit hour	PEL 234 Intermediate Wrestling Attributes: PE Activity Grade Mode: Normal Grading Mode	1 Credit hour
PEL 145 Beginning Bowling Attributes: PE Activity Grade Mode: Normal Grading Mode	1 Credit hour	PEL 235 Intermediate Softball Attributes: PE Activity Grade Mode: Normal Grading Mode	1 Credit hour
PEL 147 Beginning Soccer Attributes: No Textbook Required, PE Activity Grade Mode: Normal Grading Mode	1 Credit hour	PEL 240 Intermediate Tennis Attributes: PE Activity Grade Mode: Normal Grading Mode	1 Credit hour
PEL 155 Beginning Folk Dance Attributes: PE Activity Grade Mode: Normal Grading Mode	1 Credit hour	PEL 242 Intermediate Badminton Attributes: PE Activity Grade Mode: Normal Grading Mode	1 Credit hour
PEL 156 Beginning Square Dance Attributes: PE Activity Grade Mode: Normal Grading Mode	1 Credit hour	PEL 243 Intermediate Basketball Attributes: PE Activity Grade Mode: Normal Grading Mode	1 Credit hour
PEL 159 Beginning Social Dance Attributes: PE Activity Grade Mode: Normal Grading Mode	1 Credit hour	PEL 245 Intermediate Bowling Attributes: PE Activity Grade Mode: Normal Grading Mode	1 Credit hour
PEL 170 Beginning Racquetball Attributes: No Textbook Required, PE Activity Grade Mode: Normal Grading Mode	1 Credit hour	PEL 251 Intermediate Soccer Attributes: No Textbook Required, PE Activity Grade Mode: Normal Grading Mode	1 Credit hour
PEL 171 Beginning Handball Attributes: PE Activity Grade Mode: Normal Grading Mode	1 Credit hour	PEL 252 Touch Football Attributes: No Textbook Required, PE Activity Grade Mode: Normal Grading Mode	1 Credit hour
PEL 173 Rock Climbing Through activity, the students will learn the fundamentals and techniques of rock climbing. Attributes: No Textbook Required, PE Activity Grade Mode: Normal Grading Mode	1 Credit hour	PEL 258 Intermediate Square Dance Attributes: PE Activity Grade Mode: Normal Grading Mode	1 Credit hour
PEL 175 Core Conditioning 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	1 Credit hour	PEL 259 Intermediate Social Dance Attributes: PE Activity Grade Mode: Normal Grading Mode	1 Credit hour
PEL 180 Yoga Attributes: No Textbook Required, PE Activity Grade Mode: Normal Grading Mode	1 Credit hour	PEL 270 Intermediate Racquetball Attributes: PE Activity Grade Mode: Normal Grading Mode	1 Credit hour
PEL 205 Intermediate Swimming Attributes: No Textbook Required, PE Activity Grade Mode: Normal Grading Mode	1 Credit hour	PEL 271 Intermediate Handball Attributes: PE Activity Grade Mode: Normal Grading Mode	1 Credit hour
PEL 220 Advanced Self Defense 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. Attributes: No Textbook Required, PE Activity Grade Mode: Normal Grading Mode	1 Credit hour	PEL 275 Scuba Diving Attributes: PE Activity Grade Mode: Normal Grading Mode	2 Credit hours
PEL 232 Intermediate Volleyball Attributes: No Textbook Required, PE Activity Grade Mode: Normal Grading Mode	1 Credit hour	PEL 280 Special Topics Attributes: No Textbook Required, PE Activity Grade Mode: Normal Grading Mode	1-4 Credit hours
		PEL 281 Special Topics Attributes: No Textbook Required, PE Activity Grade Mode: Normal Grading Mode	1-4 Credit hours
		PEL 282 Special Topics Attributes: No Textbook Required, PE Activity Grade Mode: Normal Grading Mode	1-4 Credit hours
		PEL 283 Special Topics Attributes: No Textbook Required, PE Activity Grade Mode: Normal Grading Mode	1-4 Credit hours

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.

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

Sport Tourism Hospitality Mgt**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 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 Sport Finance/Economics**3 Credit hours**

In this course, students will be introduced to current economic and financial issues confronting managers in the sport industry.

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 facilities. 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)
Grade Mode: Normal Grading Mode

Faculty

Professors
Mak, McIlvain, Shepherd

Associate Professors
Beckett, Konz

Assistant Professors
Choi, Garrett, Leigh, Powell, Timmons, Toma

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	Human Anatomy	4
BSC 228 🌿	Human Physiology	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)	4
BSC 228 	Human Physiology	4
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. 331)
- Athletic Training Health Communication, Emphasis (p. 333)
- Athletic Training Occupational Safety & Health, Emphasis (p. 333)
- Athletic Training Pre-Chiropractic, Emphasis (p. 334)
- Athletic Training Pre-Med, Emphasis (p. 334)
- Athletic Training Pre-Physical Therapy, Emphasis (p. 334)
- Athletic Training Pre-Physician's Assistant, Emphasis (p. 335)
- Athletic Training Safety, Emphasis (p. 335)

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		
<i>Core 1: Critical Thinking</i>		
FYS 100 	First Yr Sem Critical Thinking	3
HS 200  	Comp Medical Terminology (CT)	3
PSY 201  	Introductory Psychology (CT)	3
<i>Core 2</i>		
ENG 101  	Beginning Composition	3
ENG 201  	Advanced Composition	3
Core II Communications		3
Core II Mathematics		3
BSC 228  	Human Physiology	4
Core II Humanities		3
PSY 201  	Introductory Psychology (CT)	3
Core II Fine Arts		3
MUS 142 	Music in Society (recommended)	
<i>Additional University Requirements</i>		
Writing Intensive		3
Writing Intensive		3
SOC 200  	Introductory Sociology (CT) (Multicultural or International)	3
Major-Specific		
BSC 227 	Human Anatomy	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	Principles of Biology
BSC 121	Principles of Biology
BSC 250	Microbiol & Human Disease
BSC 322	Principles Cell Biology
BSC 320	Principles of Ecology
BSC 302	Principles of Microbiology
BSC 438	Emerging Infect 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 312	Adult Development
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 Instrument Mat Lab
ESS 442	Princ of Strength & Cond

ESS 447	Advanced Exercise Physiology
ESS 478	Energy Sources Body Comp
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 🎓	Human Anatomy	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 🌿🎓	Human Physiology	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 	Principles of Biology	4
BSC 121 	Principles of Biology	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 	Principles of Biology	4
BSC 121 	Principles of Biology	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 	Principles of Biology	4
BSC 121 	Principles of Biology	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 	Principles of Biology	4
BSC 121 	Principles of Biology	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		
<i>Core 1: Critical Thinking</i>		
FYS 100	First Yr Sem Critical Thinking	3
HS 200  	Comp Medical Terminology (CT)	3
PSY 201 	Introductory Psychology (CT)	3
<i>Core 2</i>		
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	4
Core II Humanities (WI)		3
PSY 201 🌿	Introductory Psychology (CT)	3
Core II Fine Arts		3
MUS 142 🌿	Music in Society (recommended)	
<i>Additional University Requirements</i>		
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	4
BSC 228 🌿🎓	Human Physiology	4
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 221	Personal Health II	3
HS 365	Functional Kinesiology	3
HS 369	Motor Learning	3
HS 435	Biomech Instrument Mat Lab	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.

Areas of Emphasis

- Biomechanics Comprehensive, Emphasis (p. 337)
- Biomechanics Physics, Emphasis (p. 337)
- Biomechanics Pre-Medical, Emphasis (p. 338)
- Biomechanics Pre-Physical Therapy, Emphasis (p. 338)
- Biomechanics Safety, Emphasis (p. 338)

🌿 - General Education Course

🎓 - 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	4
PSY 201	Introductory Psychology (CT)	3
Credit Hours		16

Second Year**First Semester**

BSC 228	Human Physiology	4
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 Instrument Mat Lab	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

Biomechanics Comprehensive, Emphasis Major

Students will complete the 87-hour professional core. One term of summer school will be required to complete this degree in four years. There are 7 hours of free electives. A minimum of 120 credit hours are required for the major.

Code	Title	Credit Hours
Professional Core Courses		87
Free Electives		7
Total Credit Hours		94

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 	Principles of Biology	4
BSC 121 	Principles of Biology	4
Total Credit Hours		114

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 	Principles of Biology	4
BSC 121 	Principles of Biology	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	Human Anatomy	4
BSC 228 	Human Physiology	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	Energy Sources Body Comp	3
ESS 491 	Internship Exercise Science (minimum 6 credit6-12 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. 339)
- Clinical Exercise Physiology, Emphasis (p. 341)





















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		
<i>Core 1: Critical Thinking</i>		
FYS 100	First Yr Sem Critical Thinking	3
HS 200  	Comp Medical Terminology (CT)	3
PSY 201  	Introductory Psychology (CT)	3
<i>Core 2</i>		
ENG 101  	Beginning Composition	3
ENG 201 	Advanced Composition	3
CMM 207  	Bus & Prof Communication	3
BSC 228  	Human Physiology	4
Core II Mathematics		3
Core II Humanities		3
Core II Fine Arts		3
PSY 201  	Introductory Psychology (CT)	3
<i>Additional University Requirements</i>		
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	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	Energy Sources Body Comp	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	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	
Pre-requisite or Free Elective	3
Area of Emphasis-Specific	
CHM 205 General, Organic, and Biochem	3
CMM 207  Bus & Prof Communication	3
MKT 340 MKT Concepts and Applications	3
MGT 320 Principles of Management	3
MGT 350 Health Care Management	3
MGT 354 Health Care Delivery Systems	3
MGT 360 Intro to Entrepreneurship	3
PHY 101  Conceptual Physics	3
PHY 101L  Conceptual Physics Lab	1
Free Elective	3
Free Elective	3
Free Elective	2
Free Elective	2

- 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

- 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.


















 - General Education Course

 - 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 	Human Anatomy	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  	Human Physiology	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
MGT 360	Intro to Entrepreneurship	3
	Credit Hours	15

Fourth Year**First Semester**


ESS 478	Energy Sources Body Comp	3
Ethics Course		3
MGT 354	Health Care Delivery Systems	3
PSY 311	Child Development	3
or PSY 312	or Adult Development	
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		
<i>Core 1: Critical Thinking</i>		
FYS 100	First Yr Sem Critical Thinking	3
HS 200  	Comp Medical Terminology (CT)	3
PSY 201  	Introductory Psychology (CT)	3
<i>Core 2</i>		
ENG 101  	Beginning Composition	3
ENG 201 	Advanced Composition	3
CMM 103  	Fund Speech-Communication	3
BSC 228  	Human Physiology	4
Core II Mathematics		3
Core II Humanities (WI, MC/I)		3
Core II Fine Arts		3
PSY 201  	Introductory Psychology (CT)	3
<i>Additional University Requirements</i>		
Writing Intensive (Core II Humanities)		3
Writing Intensive		3
Multicultural/International (Core II Humanities)		3

ESS 491 	Internship Exercise Science (Capstone)	6
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Major-Specific

BSC 227 	Human Anatomy	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	Energy Sources Body Comp	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	4
BSC 121 	Principles of Biology	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
Clinical Exercise Physiology Elective		4
Clinical Exercise Physiology Elective		4
Free Elective		3
Free Elective		2
Free Elective		2

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

- **Major restricted elective courses** are: HS 215 Intro to Athletic Training and STHM 405 Sport Psychology.
- 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 320	Principles of Ecology	4
BSC 322	Principles Cell Biology	4
BSC 324	Principles of Genetics	4

- 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

- A C or better on all required coursework in the major and area of emphasis is required for Graduation.
- 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.

 - General Education Course

 - 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
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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	4
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	4
Pre-requisite or Free Elective		3
Credit Hours		16

Second Year

First Semester






BSC 227 	Human Anatomy	4
Core II Fine Arts		4
PSY 311	Child Development	3
or PSY 312	or Adult Development	
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	4
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	Energy Sources Body Comp	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
Free Elective		2
Credit Hours		15
Total Credit Hours		122

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

Sport Management, B.S.

The mission of the Sport Management degree program is to educate students to become reflective, principled, knowledgeable, and

creative learners who will succeed in the global sport management community in the 21st century. Sports are a major provider of high dollar entertainment which makes the industry very business oriented. Due to the economic magnitude of the sports industry, the demand for higher educated sports managers is at an all-time high. According to the Occupational Outlook Handbook, employment of sports and entertainment managers is much faster than the average increase for all occupations. A larger population will continue to participate in organized and spectator sports for recreation and entertainment. Job growth will also be driven by the increasing number of retirees who are expected to participate in more leisure activities. Additionally, future expansion of new professional teams and leagues as well as college athletic programs will create additional openings for sport administrative staff.

The Sports Management program at MU allows students exposure to modern methods of business communication, sport marketing, sport finance and economics, ethical and legal issues in sport business, event management and more. Students have the opportunity to gain firsthand experience by completing internships within sport business settings. This allows students to network and obtain valuable experiences, giving them an advantage when entering the workforce.

Our faculty is equally committed to teaching and research in the sport industry. We provide a balanced learning environment with mentoring opportunities available to each and every student. The Sports Management program at MU maintains a strong network of alumni who work in all levels of the sport industry, ensuring our students ready access to a vast network of connections. MU has alumni working in the NCAA, PGA, NBA, NFL, NASCAR, National Sport Association, U.S. Olympic Committee, Community and University Recreation, High School Sports, Youth Sport Programs, and more.


The Sport Management curriculum includes seven areas of emphasis: General Management, Sport Marketing, Sport Agency, Facilities and Operation Management, Sport Information, Recreation and Physical Activities, and Sport Studies.

Admission Criteria

Prospective students must meet the minimum criteria listed below to be considered for admission to the program.


- Admission to Marshall University
- Declared Sport Management 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

- Core Curriculum
- Sport Management Professional Core¹

Code	Title	Credit Hours
ACC 310	Acct for Entrepreneurs	3
CMM 207 	Bus & Prof Communication	3
ECN 200	Survey of Economics	3
MGT 218	Business Quantitative Methods	3
MGT 320	Principles of Management	3

MKT 340	MKT Concepts and Applications	3
NRRM 320	Sports & Campus Rec Mgmt	3
PSY 201 	Introductory Psychology (CT)	3
STHM 218 	Sports in Society (CT) (CT & Multicultural)	3
STHM 250	Intro to Sport Management	3
STHM 380	Sport Marketing	3
STHM 381	Sport Finance/Economics	3
STHM 401	Ethics in Sport	3
STHM 416	Facility Design & Management	3
STHM 430	Sport Law	3
STHM 475 	Capstone Seminar	3
PEL, Dance or PLS		2

¹ Non-College of Business (COB) majors may not exceed a total of 27 hours of COB course offerings.

- C. Area of Emphasis (Students must choose one)
D. 40 Upper Division Hours
E. 120 Minimum Semester Hours

Areas of Emphasis

- Facilities and Operation Management, Emphasis (p. 344)
- General Management, Emphasis (p. 344)
- Recreation and Physical Activities, Emphasis (p. 346)
- Sport Agency, Emphasis (p. 346)
- Sport Information, Emphasis (p. 346)
- Sport Marketing, Emphasis (p. 347)
- Sport Studies, Emphasis (p. 347)

Facilities and Operation Management, Emphasis

Area of Emphasis


Students will complete 6 hours of restricted electives in addition to the core courses:


Code	Title	Credit Hours
Core Courses		
Select from the following:		6
STHM 290	Sport Management Practicum	
STHM 390	Sport MGT Pre-Internship	
STHM 490	Internship (6 hrs)	
Declare a minor in Safety Technology		15
Restricted Electives		
Select two of the following:		6
STHM 270	Sport Tourism	
STHM 410	Leadership: Theory & Practice	
STHM 425	Sport in Film	
STHM 440	Women in Sport	
STHM 450	Sport Agent	
STHM 452	Sport Analytics	
STHM 458	Sales & Promotion MGT in Sport	

STHM 496	Olympic Games	
Total Credit Hours		27

Summer school may be required to complete this degree in four years. A minimum of 120 hours is required to complete this major.














General 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		
<i>Core 1: Critical Thinking</i>		
FYS 100	First Yr Sem Critical Thinking	3
PSY 201 	Introductory Psychology (CT)	3
STHM 218 	Sports in Society (CT)	3
<i>Core 2</i>		
ENG 101 	Beginning Composition	3
ENG 201 	Advanced Composition	3
CMM 207 	Bus & Prof Communication	3
MTH 121 	Concepts and Applications (CT)	3
Core II Natural/Physical Science		4
Core II Humanities (WI)		3
Core II Fine Arts		3
PSY 201 	Introductory Psychology (CT)	3
<i>Additional University Requirements</i>		
Writing Intensive (Core II Humanities recommended)		3
Writing Intensive		3
STHM 218 	Sports in Society (CT) (Multicultural/International)	3
STHM 475 	Capstone Seminar	3
Major-Specific		
ACC 310	Acct for Entrepreneurs	3
CMM 207 	Bus & Prof Communication	3
PSY 201 	Introductory Psychology (CT)	3
ECN 200	Survey of Economics	3
STHM 218 	Sports in Society (CT) (MC)	3
STHM 250	Intro to Sport Management	3
STHM 380	Sport Marketing	3
STHM 381	Sport Finance/Economics	3
STHM 401	Ethics in Sport	3
STHM 416	Facility Design & Management	3
STHM 430	Sport Law	3
STHM 475 	Capstone Seminar	3

MGT 218	Business Quantitative Methods	3
MGT 320	Principles of Management	3
MKT 340	MKT Concepts and Applications	3
NRRM 320	Sports & Campus Rec Mgmt	3
PEL or Dance		1
PEL or Dance		1
Area of Emphasis-Specific		
Complete two of the following:		6
STHM 290	Sport Management Practicum	
STHM 390	Sport MGT Pre-Internship	
STHM 410	Leadership: Theory & Practice	
STHM 490	Internship (6 hrs)	
JMC 330	AD-PR Principles and Ethics	
<i>STHM Restricted Elective</i>		
Select two of the following:		6
STHM 270	Sport Tourism	
STHM 425	Sport in Film	
STHM 440	Women in Sport	
STHM 450	Sport Agent	
STHM 452	Sport Analytics	
STHM 458	Sales & Promotion MGT in Sport	
STHM 496	Olympic Games	
<i>Declare a minor in Management, Entrepreneurship, or Spanish</i>		
Minor Requirement		3
Minor Requirement		3
Minor Requirement		3
Minor Requirement		3
Minor Requirement		3
Minor Requirement		3
Free Elective		1
UNI 100	Freshman First Class (recommended)	
Free Elective		2

Major Information







- General Management Area of Emphasis:
 - General Management Area of Emphasis include six hours STHM restricted elective classes. Summer school may be required to complete this degree in four years.
 - A minor must be declared in either Management, Entrepreneurship, or Spanish.
- Other Area of Emphasis Options:
 - Sport Marketing
 - Sport Agency
 - Facilities and Operation Management
 - Sport Information
 - Recreation and Physical Activity
 - Sport Studies
- 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 minimum of 120 hours is required to complete this 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 mission of the Sport Management degree program is to educate students to become reflective, principled, knowledgeable, and creative learners who will succeed in the global sport management community in the 21st century. Sports are a major provider of high dollar entertainment which makes the industry very business oriented. The Sports Management program at MU allows students exposure to modern methods of business communication, sport marketing, sport finance and economics, ethical and legal issues in sport business, event management and more. Students have the opportunity to gain firsthand experience by completing internships within sport business settings.

Course	Title	Credit Hours
First Year		
First Semester		
STHM 250	Intro to Sport Management	3
ENG 101 	Beginning Composition	3
FYS 100	First Yr Sem Critical Thinking	3
MTH 121 	Concepts and Applications (CT)	3
Core II Fine Arts		3
UNI 100	Freshman First Class	1
Credit Hours		16
Second Semester		
MGT 320	Principles of Management	3
CMM 207 	Bus & Prof Communication	3
ENG 201 	Advanced Composition	3
STHM 218 	Sports in Society (CT) (MC)	3
PSY 201 	Introductory Psychology (CT)	3
Credit Hours		15

Second Year

First Semester		
MGT 218	Business Quantitative Methods	3
Core II Natural/Physical Science		4
STHM 290	Sport Management Practicum	3
MKT 340	MKT Concepts and Applications	3
ECN 200	Survey of Economics	3
Credit Hours		16

Second Semester

ACC 310	Acct for Entrepreneurs	3
STHM 401	Ethics in Sport	3
STHM 380	Sport Marketing	3
PEL or Dance		1
Minor Requirement		3
Core II Humanities (WI)		3
Credit Hours		16

Third Year

First Semester

STHM 381	Sport Finance/Economics	3
STHM 410	Leadership: Theory & Practice	3
STHM 390	Sport MGT Pre-Internship	3
STHM Restricted Elective		3
Minor Requirement		3
Credit Hours		15

Second Semester

NRRM 320	Sports & Campus Rec Mgmt	3
STHM Restricted Elective		3
Minor Requirement		3
JMC 330	AD-PR Principles and Ethics	3
Minor Requirement		3
Credit Hours		15

Fourth Year

First Semester

STHM 430	Sport Law	3
STHM 490	Internship	6
Minor Requirement		3
Minor Requirement		3
Credit Hours		15

Second Semester

STHM 475 🦋	Capstone Seminar	3
STHM 416	Facility Design & Management	3
Free Elective		2
Writing Intensive		3
PEL or Dance		1
Credit Hours		12
Total Credit Hours		120

Recreation and Physical Activities, Emphasis

Area of Emphasis

Students will complete 6 hours of restricted electives in addition to the core courses:

Code	Title	Credit Hours
Core Courses		
Select from the following:		6
STHM 290	Sport Management Practicum	
STHM 390	Sport MGT Pre-Internship	
STHM 490	Internship (6 hrs)	
Declare a minor in Exercise Science		15
Restricted Electives		
Select two of the following:		6
STHM 270	Sport Tourism	
STHM 410	Leadership: Theory & Practice	
STHM 425	Sport in Film	
STHM 440	Women in Sport	

STHM 450	Sport Agent	
STHM 452	Sport Analytics	
STHM 496	Olympic Games	
Total Credit Hours		27

Summer school may be required to complete this degree in four years. A minimum of 120 hours is required to complete this major.

Sport Agency, Emphasis

Area of Emphasis

Students will complete 6 hours of restricted electives in addition to the core courses:

Code	Title	Credit Hours
Core Courses		
Select from the following:		6
STHM 290	Sport Management Practicum	
STHM 390	Sport MGT Pre-Internship	
STHM 490	Internship (6 hrs)	
Declare a minor in Communication Studies		12
Restricted Electives		
Select two of the following:		6
STHM 270	Sport Tourism	
STHM 410	Leadership: Theory & Practice	
STHM 425	Sport in Film	
STHM 440	Women in Sport	
STHM 450	Sport Agent	
STHM 452	Sport Analytics	
STHM 458	Sales & Promotion MGT in Sport	
STHM 496	Olympic Games	
Total Credit Hours		24

Summer school may be required to complete this degree in four years. A minimum of 120 hours is required to complete this major.

Sport Information, Emphasis

Area of Emphasis

Students will complete 6 hours of restricted electives in addition to the core courses:

Code	Title	Credit Hours
Core Courses		
Select from the following:		6
STHM 290	Sport Management Practicum	
STHM 390	Sport MGT Pre-Internship	
STHM 490	Internship (6 hrs)	
Declare a minor in Journalism and Mass Communications		15
Restricted Electives		
Select two of the following:		6
STHM 270	Sport Tourism	

STHM 410	Leadership: Theory & Practice	
STHM 425	Sport in Film	
STHM 440	Women in Sport	
STHM 450	Sport Agent	
STHM 452	Sport Analytics	
STHM 458	Sales & Promotion MGT in Sport	
STHM 496	Olympic Games	
Total Credit Hours		27

Summer school may be required to complete this degree in four years. A minimum of 120 hours is required to complete this major.

Sport Marketing, Emphasis Area of Emphasis

Students will complete 6 hours of restricted electives in addition to the core courses:

Code	Title	Credit Hours
Core Courses		
Select from the following:		6
STHM 290	Sport Management Practicum	
STHM 390	Sport MGT Pre-Internship	
STHM 458	Sales & Promotion MGT in Sport	
STHM 490	Internship (6 hrs)	
Declare a minor in Marketing		12
Restricted Electives		
Select two of the following:		6
STHM 270	Sport Tourism	
STHM 410	Leadership: Theory & Practice	
STHM 425	Sport in Film	
STHM 440	Women in Sport	
STHM 450	Sport Agent	
STHM 452	Sport Analytics	
STHM 496	Olympic Games	
Total Credit Hours		24

Summer school may be required to complete this degree in four years. A minimum of 120 hours is required to complete this major.

Sport Studies, Emphasis Area of Emphasis

Students will complete 6 hours of restricted electives in addition to the core courses:

Code	Title	Credit Hours
Core Courses		
STHM 425	Sport in Film	3
STHM 496	Olympic Games	3
Declare a minor with approval by advisor		12-15
Restricted Electives		
Select twelve hours of the following:		6

STHM 270	Sport Tourism	
STHM 410	Leadership: Theory & Practice	
STHM 440	Women in Sport	
STHM 450	Sport Agent	
STHM 452	Sport Analytics	
STHM 458	Sales & Promotion MGT in Sport	
Total Credit Hours		24-27

Summer school may be required to complete this degree in four years. A minimum of 120 hours is required to complete this major.

Sport Management, Minor

A minor in Sport Management is available for non-Sport Management majors, as follows:

Code	Title	Credit Hours
Required Courses		9
STHM 250	Intro to Sport Management	
STHM 380	Sport Marketing	
STHM 410	Leadership: Theory & Practice	
Select two courses from the following:		6
STHM 381	Sport Finance/Economics	
STHM 401	Ethics in Sport	
STHM 430	Sport Law	
STHM 416	Facility Design & Management	
STHM 475	Capstone Seminar	
Total Credit Hours		15

Sport Studies, Minor

A minor in Sport Studies is available for non-Sport Management majors, as follows:

Code	Title	Credit Hours
Required Courses		6
STHM 218	Sports in Society (CT)	
STHM 401	Ethics in Sport	
Select three courses from the following:		9
STHM 270	Sport Tourism	
STHM 405	Sport Psychology	
STHM 425	Sport in Film	
STHM 430	Sport Law	
STHM 440	Women in Sport	
STHM 450	Sport Agent	
STHM 452	Sport Analytics	
STHM 496	Olympic Games	
Other STHM approved by the program director.		
Total Credit Hours		15

Medical Imaging

Contacts: Dr. Rita Fisher, Program Director

Website: <http://www.marshall.edu/cohp> (<http://www.marshall.edu/cohp/>)

Please call Dr. Fisher at 304-526-1259 or e-mail to rfisher@st-marys.org for questions regarding the medical imaging program.

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. 352)

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.

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.

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.

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.

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.

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.

Pre-req: BSC 228 and MI 206.**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.

Pre-req: BSC 227 and MI 206.**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.

Pre-req: MTH 121 and PHY 101 and PHY 101L.**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.

Pre-req: MI 206.**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.

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.

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.

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.

Pre-req: BSC 228 and MI 204.**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.

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.

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.

Pre-req: MI 303 and MI 304 and MI 208.**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.

Pre-req: MI 303.**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.

Pre-req: MI 210 and MI 301 and MI 305.**Co-req:** MI 307, MI 308, MI 309**Grade Mode:** Normal Grading Mode

MI 311 Seminar Imaging Sciences III	1 Credit hour	MI 401 Seminar in Imaging Sci	1 Credit hour
Seminar on new and emerging technologies in imaging sciences.		Review seminar for the primary ARRT certification examination.	
Grade Mode: Normal Grading Mode		Grade Mode: Normal Grading Mode	
MI 312 Abdominal Sonography I	4 Credit hours	MI 402 Quality Management	3 Credit hours
This course covers basic abdominal sonographic positioning and scanning protocols, as it relates to normal anatomy of the abdomen. Laboratory included.		Advanced practice course in the quality assurance (QA) and quality management (QM) process for imaging sciences.	
Grade Mode: Normal Grading Mode		Grade Mode: Normal Grading Mode	
MI 313 Ultrasound Physics I	3 Credit hours	MI 403 Adv Practice Medical Img	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.		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		Grade Mode: Normal Grading Mode	
MI 314 Clinical Practice I Sonography	4 Credit hours	MI 404 Adv Sectional Anatomy	3 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.		Provides students enrolled in CT/MRI advanced practice track advanced knowledge of sectional anatomy.	
Grade Mode: Normal Grading Mode		Co-req: MI 405, MI 407	
MI 315 Small Parts Sonography	3 Credit hours	Grade Mode: Normal Grading Mode	
This course covers anatomy, positioning and scanning protocol of the superficial structures.		MI 405 CT Procedures	3 Credit hours
Grade Mode: Normal Grading Mode		Focus on advanced patient care skills including ACLS, imaging procedures and equipment in computed tomography.	
MI 316 Abdominal Sonography II	3 Credit hours	Co-req: MI 404, MI 408	
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	
Grade Mode: Normal Grading Mode		MI 406 MRI Procedures	3 Credit hours
MI 317 Ultrasound Physics II	3 Credit hours	Focus on advanced patient care skills including ACLS, imaging procedures and equipment in computed tomography.	
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.		Co-req: MI 404, MI 408	
Grade Mode: Normal Grading Mode		Grade Mode: Normal Grading Mode	
MI 318 Vascular Sonography I	4 Credit hours	MI 407 Cardiovascular Anatomy	3 Credit hours
Discussion of vascular disease, duplex examinations with comparison to arteriography, as it pertains to venous and visceral vascular examinations. Laboratory included.		Focus on advanced cardiovascular anatomy, physiology and pathophysiology including heart anatomy, coronary, systemic, pulmonary, peripheral and cerebral circulation.	
Grade Mode: Normal Grading Mode		Co-req: MI 408	
MI 319 Clinical Prac II Sonography	4 Credit hours	Grade Mode: Normal Grading Mode	
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.		MI 408 Vascular Interventional Img	3 Credit hours
Grade Mode: Normal Grading Mode		Focus is on advanced patient care skills including ACLS, procedures and equipment utilized in cardiovascular and vascular/interventional imaging.	
MI 320 Elective Clinical Practicum II	4 Credit hours	Co-req: MI 407	
Elective clinical practicum in radiography or sonography.		Grade Mode: Normal Grading Mode	
Grade Mode: Normal Grading Mode		MI 409 Adv Clinical Practice	4 Credit hours
MI 321 Imaging Procedures III	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.	
Content is designed to provide the knowledge necessary for advanced diagnostic radiographic imaging procedures.		Grade Mode: Normal Grading Mode	
Pre-req: MI 205 and MI 207.		MI 410 Research Medical Imaging	3 Credit hours
Grade Mode: Normal Grading Mode		Capstone course. Research methods and information literacy.	
MI 322 Radiation Safety	3 Credit hours	Grade Mode: Normal Grading Mode	
This course focuses on radiation safety including ionizing radiation dose limits for the occupational worker, patient and general public.		MI 411 🌍 Transcultural Healthcare	3 Credit hours
Grade Mode: Normal Grading Mode		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 positioning 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 plethysmography 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 diagnostic 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.
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

Program Chair





Dr. Rita Fisher, Ph.D., RT (R)(CT)(CV)(ARRT)

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	4
BSC 228 	Human Physiology	4
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	4
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	4

BSC 228	Human Physiology	4
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. 354)
- Medical Imaging, Emphasis - Cardiovascular/Interventional Advanced Practice (p. 355)
- Medical Imaging, Emphasis - CT Advanced Practice (p. 356)
- Medical Imaging, Emphasis - CT MRI Advanced Practice (p. 356)

- Medical Imaging, Emphasis - Mammography (p. 356)
- Medical Imaging, Emphasis - Medical Imaging Management Advanced Practice (p. 356)
- Sonography, Emphasis - Cardiovascular Sonography (p. 357)
- Sonography, Emphasis - General/OB-GYN (p. 357)
- Sonography, Emphasis - Pediatric/Fetal Echo Electives (p. 357)
- Sonography, Emphasis - Professional Sonographers (p. 357)

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	4
CLS 105	Medical-Lab Terminology (CT)	3
UNI 100	Freshman First Class	1
Credit Hours		17
Second Semester		
BSC 228	Human Physiology	4
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		
<i>Core 1: Critical Thinking</i>		
FYS 100	First Yr Sem Critical Thinking	3
MTH 121 	Concepts and Applications (CT)	3
CLS 105 	Medical-Lab Terminology (CT)	3
<i>Core 2</i>		
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	4
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	4
BSC 228 🌿	Human Physiology	4
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 Sonography	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	4
CLS 105 🐸	Medical-Lab Terminology (CT)	3
UNI 100	Freshman First Class	1
Credit Hours		17
Second Semester		
BSC 228 🐸	Human Physiology	4
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 Sonography	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 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 - 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

Sonography, Emphasis - General/OB-GYN 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 416 Obstetrical Sonography I
- Year 4 / Fall: MI 417 Gynecological Sonography I and MI 420 Obstetrical Sonography II
- Year 4 / Spring: MI 421 Gynecological Sonography II

Sonography, Emphasis - Pediatric/Fetal Echo Electives

Major

Medical Imaging students must select one track for their senior year. Each track has slightly different course requirements.

Code	Title	Credit Hours
MI 438	Fetal Echocardiology	3
MI 439	Pediatric Echo I	3
MI 440	Pediatric Echo II	3
MI 441	Adv Echocardiography I	3
Total Credit Hours		12

Sonography, Emphasis - Professional Sonographers Major

(must have ARDMS credentials)

Medical Imaging students must select one track for their senior year. Each track has slightly different course requirements.

Code	Title	Credit Hours
MI 442	Adv Echocardiography II	3
Advisor Approved Course		3
Total Credit Hours		6

Nursing

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, A.S.N. (p. 360)
- Nursing, Pre-Licensure, B.S.N. (p. 362)
- RN to B.S.N. Online Program (p. 366)

Courses

 - General Education Course

NUR 120 Introduction to Nursing 8 Credit hours

Introduce the nursing role and use of the nursing process in assisting adult clients to meet basic needs. Clinical included.

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 314 (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 314 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.
Pre-req: (MTH 121 with a minimum grade of C or MTH 121B with a minimum grade of C and 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.
Concurrent PR: NUR 221
Co-req: 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)
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.
Pre-req: (MTH 121 or MTH 121B and MTH 125 or MTH 127 or MTH 130) and BSC 227 and BSC 228 and (CHM 203 or CHM 205) and PSY 201 and NUR 219 (may be taken concurrently) and ENG 101.
Concurrent PR: NUR 219
Co-req: 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.
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)
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.
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)
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)
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. 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. Option Students PR: NUR 219, NUR 305)
Pre-req: NUR 221 and NUR 219 or NUR 305 (may be taken concurrently) and (ENG 201 or ENG 201H or ENG 200H).
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.
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.
Pre-req: NUR 222 and NUR 319 and (ENG 201 or ENG 200H or ENG 201H) and BSC 250 and DTS 314 and NUR 318 (may be taken concurrently).
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.

Pre-req: NUR 222 and NUR 319 and (ENG 201 or ENG 200H or ENG 201H) and BSC 250 and DTS 314.

Grade Mode: Normal Grading Mode

NUR 323 Nurs Human Responses III**5 Credit hours**

Focus is on nursing care of clients of all ages responding to common health problems. Practicum included.

Pre-req: NUR 222 and NUR 319 and (ENG 201 or ENG 200H or ENG 201H) and BSC 250 and DTS 314.

Grade Mode: Normal Grading Mode

NUR 324 Nurs Human Responses IV**5 Credit hours**

Focus in on nursing care of clients of all ages responding to potential and actual complex alterations in health in relation to specific body systems. Practicum included. (PR: NUR 323, CR: HEC 404)

Pre-req: NUR 323 and NUR 318 and NUR 350.

Grade Mode: Normal Grading Mode

NUR 325 Nurs Human Responses V**5 Credit hours**

Focus is on nursing care of clients of all ages responding to potential and actual complex alterations in health in relation to specific body systems. Practicum included. (PR: NUR 323, CR: HEC 404)

Pre-req: NUR 324 and NUR 326.

Grade Mode: Normal Grading Mode

NUR 326 Nursing Care of Children**3 Credit hours**

Focus is on nursing care of pediatric clients of all ages and their families response to common and complex health problems.

Pre-req: NUR 323 and NUR 318 and NUR 350.

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 and NUR 319 and ENG 201 and BSC 250 and DTS 314.

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 and NUR 327 and NUR 350.

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)

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) or (NUR 221 and NUR 219).

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 and NUR 327 and NUR 350.

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 and NUR 318.

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.

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: (MTH 225 with a minimum grade of D or STA 225 with a minimum grade of D or EDF 417 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) and (NUR 305 with a minimum grade of D or NUR 327 with a minimum grade of D).

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.

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 (may be taken concurrently) with a minimum grade of D.

Concurrent PR: NUR 328

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. (PR: HEC 404, NUR 324 CR: NUR 409, NUR 325)

Pre-req: NUR 321 and NUR 322 and NUR 324 and NUR 326 and NUR 350.

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.

Pre-req: (NUR 321 and NUR 322 and NUR 325 and NUR 350) and (NUR 416 (may be taken concurrently) and NUR 419 (may be taken concurrently) and NUR 421 (may be taken concurrently)) and (NUR 425 (may be taken concurrently)).

Concurrent PR: (NUR 416 and NUR 419 and NUR 421) and (NUR 425)

Attributes: Capstone Course

Grade Mode: Normal Grading Mode

NUR 422L 🌱 Role Synthesis Practicum 5 Credit hours

Focus is on leadership activities related to the roles of the professional nurse: provider of care, coordinator of care, and member of the profession through supervised clinical practice. (PR: NUR 325)

Pre-req: NUR 325.

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).

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 416, NUR 418, NUR 421)

Pre-req: NUR 305 and NUR 416 (may be taken concurrently) and NUR 418 (may be taken concurrently) and NUR 410 (may be taken concurrently).

Concurrent PR: NUR 416 and NUR 418 and NUR 410

Attributes: Capstone Course

Grade Mode: Normal Grading Mode

NUR 480 Special Topics 1-4 Credit hours

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.

Grade Mode: Normal Grading Mode

NUR 482 Special Topics 1-4 Credit hours

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.

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, Landry, Pope, Prunty, Ramsburg, Stotts, Walton

Associate Professors

Dyer, Elkins, Ferguson, Greene, Imes, Taylor, Turner, Welch

Assistant Professors

Leaberry, Maynard, Minor, Nowlin, Perry

Clinical Faculty

Hodges

Nursing, A.S.N.

<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

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.

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).

Accreditation

St. Mary's/Marshall University Cooperative Associate in Science in Nursing program is fully approved by the West Virginia Board of Examiners for Registered Professional Nurses and the Accreditation Commission for Education in Nursing (ACEN). ACEN is located at 3343 Peachtree Road N.E., Suite 850; Atlanta, GA 30326; 404-975-5020; www.acenursing.org (<http://www.acenursing.org>).

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.






 - General Education Course

 - 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 fully admitted into the ASN program are exempt from the Core and instead complete a customized general education, as noted below.

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		
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	Human Anatomy ¹	4
BSC 228 	Human Physiology	4
Major-Specific		
BSC 250 	Microbiol & Human Disease	4
DTS 314	Nutrition & Diet Therapy	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.


 - General Education Course

 - 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

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	4
PSY 311	Child Development	3
DTS 314	Nutrition & Diet Therapy	3
Credit Hours		18
Second Semester		
BSC 250 	Microbiol & Human Disease	4
NUR 220	Health Alterations I	8
NUR 225	Psychiatric Nursing	4
Credit Hours		16
Third Semester		
General Education Courses		13
Credit Hours		13
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	72

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 admission 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 Site (Pre-Licensure B.S.N. Program): Mid-Ohio Valley Center

Students may take Nursing classes at the Mid-Ohio Valley Center in Point Pleasant. With the exception of clinicals for a few courses, students may pursue the complete pre-licensure B.S.N. degree in that location.

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		
<i>Core 1: Critical Thinking</i>		
FYS 100	First Yr Sem Critical Thinking	3
PSY 201  	Introductory Psychology (CT)	3
MTH 121 	Concepts and Applications (CT)	3
<i>Core 2</i>		
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	4
Core II Humanities		3
PSY 201  	Introductory Psychology (CT)	3
Core II Fine Arts		3
<i>Additional University Requirements</i>		
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	4
BSC 228  	Human Physiology	4
BSC 250 	Microbiol & Human Disease	4
CHM 205	General, Organic, and Biochem	3
CMM 213 	Fund Interpersonal Com	3
DTS 314 	Nutrition & Diet Therapy	3
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	4
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	4
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	4
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 314	Nutrition & Diet Therapy	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		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
Writing Intensive		3
Credit Hours		17
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		128

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 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.**

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 license¹, 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 license¹ **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; form online at www.marshall.edu/nursing/online/rn-to-bsn/admissions (<http://www.marshall.edu/nursing/online/rn-to-bsn/admissions/>).


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.

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 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


 - General Education Course

 - 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 323	Nurs Human Responses III	5
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:

Course	Title	Credit Hours
First Year		
First Semester		
NUR 305	Concepts in Prof Nursing	4

NUR 318	Family and Chronic Illness	2
Core/elective		3
Core/elective		3
Credit Hours		12

Second Semester

NUR 400	Transcultural Nursing	3
NUR 333	Health Physical Assessment	3
Statistics (200 level or higher)		3
Core/elective		3
Credit Hours		12

Second Year**First Semester**

NUR 410	Community Nursing for RN	5
NUR 416	Intro Research EBP	3
Core/elective		3
Core/elective		3
Credit Hours		14


Second Semester

NUR 427	Prof Engagement Nursing	5
NUR 418	Contemporary Nursing	3
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	4
BSC 228	Human Physiology	4

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	4
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. 371)
- RRT to B.S.R.C. Technology Enhanced Program (p. 372)

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) and BSC 228 and BSC 250 and RSP 101 and RSP 102 and RSP 102L.

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 and BSC 228.

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 and BSC 228.

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 and BSC 228.

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 and BSC 228 and BSC 250 and RSP 101 and RSP 102 and RSP 102L.

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 and BSC 228 and BSC 250 and RSP 101 and RSP 102 and RSP 102L.

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 and BSC 228 and BSC 250 and RSP 101 and RSP 102 and RSP 102L.

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.

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.

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 and RSP 201 and RSP 202 and RSP 203.

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, transtracheal oxygen therapy and aspiration, bronchoscopy, thoracentesis, pleural chest tubes, arterial lines, ABG interpretation and analysis, transports, and electrocardiogram interpretation.

Pre-req: RSP 100 and RSP 201 and RSP 202 and RSP 203.

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 and RSP 201 and RSP 202 and RSP 203.

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 and RSP 201 and RSP 202 and RSP 203.

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 and RSP 201 and RSP 202 and RSP 203 and RSP 209.

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 and RSP 201 and RSP 202 and RSP 203.

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 course 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 and RSP 201 and RSP 202 and RSP 203.

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 and RSP 207 and RSP 208 and RSP 209 and RSP 211 and RSP 212.

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 and RSP 207 and RSP 208 and RSP 209 and RSP 211 and RSP 212.

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 and RSP 308.

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 and RSP 308.**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 and RSP 207 and RSP 208 and RSP 209 and RSP 211 and RSP 212.**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 D.**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, psychophysiological insomnia and sleep disturbance due to depression.

Pre-req: RSP 303 and RSP 308.**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 rural 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 and RSP 303 and RSP 304 and RSP 307 and RSP 308.**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 and RSP 303 and RSP 304 and RSP 307 and RSP 308 and (STA 225 or MGT 218 or PSY 223 or EDF 417 or BSC 417).**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 and RSP 303 and RSP 304 and RSP 307 and RSP 308 and (STA 225 or MGT 218 or PSY 223 or EDF 417 or BSC 417).**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 D.**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 and RSP 303 and RSP 307 and RSP 308 and (STA 225 or MGT 218 or PSY 223 or EDF 417 or BSC 417).**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		
<i>Core 1: Critical Thinking</i>		
FYS 100	First Yr Sem Critical Thinking	3
MTH 121  	Concepts and Applications (CT)	3
PSY 201 	Introductory Psychology (CT)	3
<i>Core 2</i>		
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	4
<i>Core II Humanities (MC/I)</i>		
PSY 201 	Introductory Psychology (CT)	3
<i>Core II Fine Arts</i>		
<i>Additional University Requirements</i>		
<i>Writing Intensive</i>		
RSP 403	Respiratory Care Research (WI)	3
<i>Multicult or Int'l (MC Section Core II Humanities)</i>		

RSP 420 	Capstone in Respiratory Care	5
Major-Specific		
BSC 227 	Human Anatomy	4
BSC 250 	Microbiol & Human Disease	4
CHM 205	General, Organic, and Biochem	3
HS 200 	Comp Medical Terminology (CT)	3
<i>Statistics</i>		
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 208 	Respiratory Care Seminar	1
RSP 209	Respiratory Internship II	4
RSP 210 	Respiratory Internship III	4
RSP 211	Dynamics of Pulmonary	2
RSP 212	Acute/Chronic Pulmonary Mgt	3
RSP 301	Intro Resp Care 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
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 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	4
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
UNI 100	Freshman First Class	1
Credit Hours		17
Second Semester		
BSC 228  	Human Physiology	4
ENG 201 	Advanced Composition	3
CMM 103  	Fund Speech-Communication	3
PSY 201 	Introductory Psychology (CT)	3
Core II Fine Arts		3
Credit Hours		16
Second Year		
First Semester		
BSC 250 	Microbiol & Human Disease	4
RSP 101 	Intro to Respiratory Care	3
RSP 102 	Intro Resp Care Procedures	3
RSP 102L	Respiratory Lab	1
Core II Humanities (MC/I)		3
Credit Hours		14
Second Semester		
RSP 100	Respiratory Pharmacology	3
RSP 201 	Pulmonary Pathophys	3
RSP 202 	Mech Vent Tech & MGT	3
RSP 203 	Respiratory Internship I	4
Credit Hours		13
Third Year		
First Semester		
RSP 206 	Neonatal/Pediatric Care	3
RSP 207 	Intro Critical Care MGT	3
RSP 208 	Respiratory Care Seminar	1
RSP 209	Respiratory Internship II	4
RSP 211	Dynamics of Pulmonary	2

RSP 212	Acute/Chronic Pulmonary Mgt	3
Credit Hours		16
Second Semester		
RSP 210 	Respiratory Internship III	4
RSP 301	Intro Resp Care MGT	3
RSP 303 	Clinical Respiratory Education	3
RSP 308	Resp Mgt & Quality Improvement	3
Statistics		3
Credit Hours		16
Fourth Year		
First Semester		
RSP 302	Respiratory Internship IV	4
RSP 304	Adv Neonatal & Pediatrics	3
RSP 307	Adv Tech Adult Critical Care	4
Writing Intensive		3
Free Elective		1
Credit Hours		15
Second Semester		
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
Credit Hours		19
Total Credit Hours		126

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. 375)
- Social Work, Minor (p. 376)

Courses

 - General Education Course

SWK 203 Intro To Social Work

Introduction to the field of social work practice.

Attributes: Multicultural

Grade Mode: Normal Grading Mode

3 Credit hours

SWK 260 Substance Use and SWK

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

3 Credit hours

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.

Grade Mode: Normal Grading Mode

SWK 281 Special Topics 1-4 Credit hours

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.

Grade Mode: Normal Grading Mode

SWK 283 Special Topics 1-4 Credit hours

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 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.

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.

Pre-req: SWK 310 and SWK 320 and SWK 330 and SWK 340.

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, Writing Intensive

Grade Mode: Normal Grading Mode

SWK 322 🌱 Social Work Practice II 4 Credit hours

Pre-req: SWK 320 and SWK 310 and SWK 330 and SWK 340.

Co-req: SWK 312, SWK 332, SWK 370

Attributes: Multicultural, Writing Intensive

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 and SWK 320 and SWK 330 and SWK 340.

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 organiza- tion for minimum of 100 clock hours. Regular conferences with instructor and weekly seminars.

Pre-req: SWK 310 and SWK 320 and SWK 330 and SWK 340.

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 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

6 Credit hours

Grade Mode: Normal Grading Mode

1-4 Credit hours

Grade Mode: Normal Grading Mode

1-4 Credit hours

Grade Mode: Normal Grading Mode

1-4 Credit hours

Grade Mode: Normal Grading Mode

1-4 Credit hours

Grade Mode: Normal Grading Mode

1-4 Credit hours

Grade Mode: Normal Grading Mode

1-4 Credit hours

Grade Mode: Normal Grading Mode

1-4 Credit hours

Grade Mode: Normal Grading Mode

1-4 Credit hours

Grade Mode: Normal Grading Mode

Carter, Gottlieb, Larsen


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	Human Biology	4
Core II Humanities		
Core II Fine Arts		
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		
BSC 105	Human Biology	4
or BSC 227	Human Anatomy	
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
Free Elective		1

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		
BSC 105  or BSC 227	Human Biology or Human Anatomy	4
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

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

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. 379)
- Department of English (p. 389)
- Department of Geography (p. 408)
- Department of History (p. 421)
- Department of Modern Languages (p. 429)
- Department of Political Science (p. 443)
- Department of Psychology (p. 450)
- Department of Sociology and Anthropology (p. 455)
- Division of Finance and Economics (p. 466)
- Humanities (p. 469)
- Interdisciplinary (p. 486)
- International Affairs (p. 513)

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. 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. Students must also be enrolled for at least 12 Marshall University credit hours during the year in which they will graduate.
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. 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 Analysis

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 GIS-Raster Analysis

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 designated International 3

¹ Students must complete the sequence beginning with the first course they take. Students with at least 2 years of high school Spanish or French can begin with SPN 112 Elementary Spanish or FRN 112 Basic French for which they will receive 6 hours of credit (for FRN 101 Elementary French I or SPN 101 Introductory Spanish) if they earn at least a C. The next course in the sequence would then be SPN 203 Intermediate Spanish III or FRN 203 Intermediate French III. Up to 3 semesters may be waived by the Modern Language Department for language taken in high school. This requirement also may be waived through conclusive proof of native proficiency in a foreign language and its culture.

Department of Communication Studies

Contacts: Dr. Camilla Brammer, 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. 382)
- Communication Studies, B.A. (p. 382)
- Communication Studies, Minor (p. 389)

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 non-verbal interaction in interpersonal and public communication contexts.

Attributes: 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.

Attributes: 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.

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.

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.

Attributes: 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, re- source finding, and self-directed discovery learning.

Attributes: 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 broad- cast by public television. The student is repsonible 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.

Pre-req: CMM 103 or CMM 104H or CMM 207 or YGS 161 or IST 101.

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.

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.

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 persuas- ion will be examined and applied to contemporary persuasive communications.

Pre-req: CMM 103 or CMM 104H or CMM 207 or YGS 161 or IST 101.

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 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.

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.

Pre-req: CMM 103 or CMM 104H or CMM 207 or YGS 161 or IST 101.

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.

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 defini- tion, performance feedback, development and maintenance of relationships, conflict management, leadership, decision- making.

Pre-req: CMM 103 or CMM 104H or CMM 207 or YGS 161 or IST 101.

Grade Mode: Normal Grading Mode

CMM 320 Oral Interpretation Lit**3 Credit hours**

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 or CMM 104H or CMM 207 or YGS 161 or IST 101.
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.
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 Communicatn 3 Credit hours**
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.
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.
Pre-req: CMM 103 or CMM 207 or CMM 104H.
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.
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.
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.
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.
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 of films 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.
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.
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.
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.
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.

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.

Grade Mode: Normal Grading Mode

Faculty

Professors

Bookwalter, Brammer, Tarter

Associate Professors

J. Underhill, S. Underhill

Assistant Professor

Brown, 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. 382)
- Interpersonal Communication, Concentration (p. 384)
- Organizational Communication, Concentration (p. 386)
- Public Communication, Concentration (p. 387)

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		
<i>Core 1: Critical Thinking</i>		
FYS 100	First Yr Sem Critical Thinking	3
MTH 121 	Concepts and Applications (CT)	3
	Critical Thinking	3
<i>Core 2</i>		
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
<i>Additional University Requirements</i>		
	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
<i>CMM Restricted Major Electives</i>		
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		
<i>Core 1: Critical Thinking</i>		
FYS 100	First Yr Sem Critical Thinking	3
MTH 121 	Concepts and Applications (CT)	3
	Critical Thinking	3
<i>Core 2</i>		
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
<i>Additional University Requirements</i>		
	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 	Group Communication	3
or	or Intercultural Communication	
CMM 322 		
	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		
<i>Core 1: Critical Thinking</i>		
FYS 100	First Yr Sem Critical Thinking	3
MTH 121 	Concepts and Applications (CT)	3
	Critical Thinking	3
<i>Core 2</i>		
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
<i>Additional University Requirements</i>		
	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 Communicatn	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 Communicatn	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		
<i>Core 1: Critical Thinking</i>		
FYS 100	First Yr Sem Critical Thinking	3
MTH 121	Concepts and Applications (CT)	3
Critical Thinking		3
<i>Core 2</i>		
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
<i>Additional University Requirements</i>		
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. 400)
- Creative Writing, Minor (p. 402)
- English Education 5-Adult Teaching Specialization (p. 403)
- English, Minor (p. 403)
- Generalist, B.A. (p. 403)

- Literary Studies, B.A. (p. 404)
- Professional Writing, B.A. (p. 407)
- Professional Writing, Minor (p. 408)

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.

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.

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 102 with a minimum grade of C or ENG 200H with a minimum grade of C or ENG 202 with a minimum grade of C or ENG 302 with a minimum grade of C or YGS 162 with a minimum grade of C or IST 201 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 or YGS 162 or ENG 302 with a minimum grade of C or ENG 102 with a minimum grade of C.

Attributes: Writing Intensive

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 102 with a minimum grade of C or ENG 302 with a minimum grade of C or ENG 201H with a minimum grade of C or ENG 202 or ENG 200H with a minimum grade of C or YGS 162 or IST 201 or ENG 201 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 102 or ENG 201 or ENG 201H or ENG 200H or YGS 162.

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 or ENG 202 or YGS 162 or IST 201 or ENG 302 with a minimum grade of C or ENG 102 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 102 with a minimum grade of C or ENG 302 with a minimum grade of C or ENG 201H with a minimum grade of C or ENG 202 or ENG 200H with a minimum grade of C or YGS 162 or IST 201 or ENG 201 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 or ENG 202 or YGS 162 or IST 201 or ENG 102 with a minimum grade of C or ENG 302 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 or ENG 202 or YGS 162 or IST 201 or ENG 102 with a minimum grade of C or ENG 302 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 or ENG 202 or YGS 162 or IST 201 or ENG 102 with a minimum grade of C or ENG 302 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 or ENG 102 with a minimum grade of C or ENG 202 or YGS 162.

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 102 with a minimum grade of C or ENG 302 with a minimum grade of C or ENG 201H with a minimum grade of C or ENG 202 or YGS 162 or IST 201 or ENG 200H with a minimum grade of C or ENG 201 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 102 with a minimum grade of C or ENG 302 with a minimum grade of C or ENG 201H with a minimum grade of C or ENG 202 or ENG 200H with a minimum grade of C or YGS 162 or IST 201 or ENG 201 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 102 or ENG 302 or ENG 201H or YGS 162 or IST 201 or ENG 202 or ENG 201 or ENG 200H.

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 102 with a minimum grade of C or ENG 302 with a minimum grade of C or ENG 201H with a minimum grade of C or ENG 202 or YGS 162 or IST 201 or ENG 200H with a minimum grade of C or ENG 201 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 or ENG 202 or YGS 162 or IST 201 or ENG 102 with a minimum grade of C or ENG 302 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 or ENG 102 with a minimum grade of C or ENG 202 or YGS 162.

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 or YGS 162 or IST 201 or ENG 102 with a minimum grade of C or ENG 302 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 102 with a minimum grade of C or ENG 302 with a minimum grade of C or ENG 201H with a minimum grade of C or ENG 202 or ENG 200H with a minimum grade of C or YGS 162 or IST 201 or ENG 201 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 or ENG 202 or YGS 162 or IST 201 or ENG 102 with a minimum grade of C or ENG 302 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 or ENG 202 or YGS 162 or IST 201 with a minimum grade of C or ENG 102 with a minimum grade of C or ENG 302 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 or ENG 202 or YGS 162 or IST 201 or ENG 102 with a minimum grade of C or ENG 302 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: 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.

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.

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.

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.

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. (PR: Completion of Core II composition requirement or English or Creative Writing or Professional Writing minor; or permission of chair)

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 or ENG 202 with a minimum grade of C or YGS 162 with a minimum grade of C or IST 201 with a minimum grade of C or ENG 102 with a minimum grade of C or ENG 302 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 or ENG 200H or ENG 201H or YGS 162 or IST 201 or ENG 202 or ENG 102 or ENG 302.

Attributes: 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 or YGS 162 or IST 201 or ENG 202 or ENG 102 with a minimum grade of C or ENG 302 with a minimum grade of C.

Attributes: 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 or YGS 162 or IST 201 or ENG 202 or ENG 102 with a minimum grade of C or ENG 302 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.

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 or YGS 162 or IST 201 or ENG 202 or ENG 102 with a minimum grade of C or ENG 302 with a minimum grade of C.

Grade Mode: Normal Grading Mode

ENG 377 Creative Writing Poetry**3 Credit hours**

Practice in writing poetry.

Pre-req: ENG 360.

Grade Mode: Normal Grading Mode

ENG 378 Creative Writing Fiction**3 Credit hours**

Practice in writing fiction.

Pre-req: ENG 360.

Grade Mode: Normal Grading Mode

ENG 379 Creative Writing: Nonfiction**3 Credit hours**

Practice in writing creative nonfiction.

Pre-req: ENG 360.

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.

Pre-req: ENG 350 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.

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 or ENG 350 or ENG 354.

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 or ENG 102 with a minimum grade of C.

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 Brontës, 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.

Pre-req: ENG 350 and Admitted to Teacher ED with a score of 4 and (ENG 410 or ENG 412).

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 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.

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 or ENG 102 with a minimum grade of C or ENG 202 with a minimum grade of C or YGS 162 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 D.

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 or ENG 344.

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 or ENG 344 or WS 101.

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).

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 303 or ENG 306 or ENG 307 or ENG 308 or ENG 309 or ENG 310 or ENG 311 or ENG 313 or ENG 315 or ENG 317 or ENG 319 or ENG 320 or ENG 323 or ENG 329 or ENG 331 or ENG 335 or ENG 336 or ENG 340 or ENG 341 or ENG 342 or ENG 344 or ENG 350 or ENG 360 or ENG 377 or ENG 378 or ENG 402 or ENG 405 or ENG 408 or ENG 409 or ENG 410 or ENG 411 or ENG 412 or ENG 413 or ENG 414 or ENG 415 or ENG 416 or ENG 417 or ENG 419 or ENG 420 or ENG 421 or ENG 422 or ENG 423 or ENG 424 or ENG 425 or ENG 428 or ENG 433 or ENG 434 or ENG 435 or ENG 436 or ENG 437 or ENG 438 or ENG 444 or ENG 446 or ENG 447 or ENG 450 or ENG 451 or ENG 458 or ENG 462 or ENG 465 or ENG 480 or ENG 481 or ENG 482 or ENG 483 or ENG 491 or ENG 492 or ENG 493 or ENG 321 or ENG 475 or ENG 476 or ENG 478 or ENG 485 or ENG 354.

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 102 with a minimum grade of C or ENG 201H with a minimum grade of C or ENG 200H with a minimum grade of C or ENG 201 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 102 or ENG 201H or ENG 200H or ENG 201.

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 and ENG 360.

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 and ENG 360.

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 or YGS 162 or IST 201 or ENG 202 or ENG 102 with a minimum grade of C or ENG 302 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 or YGS 162 or IST 201 or ENG 202 or ENG 102 with a minimum grade of C or ENG 302 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 102 with a minimum grade of C or ENG 302 with a minimum grade of C or ENG 201H with a minimum grade of C or YGS 162 or IST 201 or ENG 202 or ENG 201 with a minimum grade of C or ENG 200H 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.
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.
Pre-req: ENG 377.
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.
Pre-req: ENG 378.
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.
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 and ENG 355.
Attributes: Capstone Course
Grade Mode: Normal Grading Mode

Faculty

Professors

Burbery, Carey, Hong, Hood, Lillvis, R. Peckham, Riemer, Schray, Viola, Young

Associate Professors

Aftanas, Brewster, Damai, Ellison, Hatfield, J. Peckham, Prejean, S. Smith, Squire, Treftz

Assistant Professors

Angus, Hancock, Marshall, O'Malley, Schoeberlein, Tigchelaar

Instructors

Daniel, Diehl, Jones, Kozma, Lawrence, Lewis, Lumpkin, Magnusson, Nolte, Oudghiri-Otmani, Pleska, Rinehart, Rollins, Roth, Rucker, Sullivan, 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

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 Education 5-Adult Teaching Specialization

Please see the College of Education and Professional Development 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.

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		
<i>Core I Critical Thinking</i>		
FYS 100	First Yr Sem Critical Thinking	3
MTH 121 	Concepts and Applications (CT)	3
Critical Thinking Course		3
<i>Core II</i>		
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
<i>Additional University Requirements</i>		
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

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		
<i>Core 1: Critical Thinking</i>		
FYS 100	First Yr Sem Critical Thinking	3
MTH 121 🌿	Concepts and Applications (CT)	3
	Critical Thinking Course	3
<i>Core 2</i>		
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
<i>Additional University Requirements</i>		
	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	
<i>Literary Studies Electives; choose from:</i>		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.






- 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.
- 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 (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 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		
<i>Core I Critical Thinking</i>		
FYS 100	First Yr Sem Critical Thinking	3
MTH 121 🌿	Concepts and Applications (CT)	3
	Critical Thinking Course	3
<i>Core II</i>		
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
<i>Additional University Requirements</i>		
	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
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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
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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 (Milestone)		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 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. 412)
- Geography, B.A. (p. 412)
- Geography, B.S. (p. 413)
- Geography, Minor (p. 420)
- GIScience, Certificate or Minor (p. 420)
- Meteorology, Minor (p. 421)

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.

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.

Grade Mode: Normal Grading Mode

GEO 111 Air Photos & Satellite Imagery 1 Credit hour

Introduction to photogrammetry and remote sensing through the hands-on investigation of aerial photographs and satellite imagery using the latest technology.

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.

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.

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.

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 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.

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.
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.
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.
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 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.
Grade Mode: Normal Grading Mode

GEO 426 Principles of GIS	4 Credit hours	GEO 460 Weather Analysis	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 reading weather maps and meteorological analysis techniques including satellite and radar image interpretation and numerical weather prediction.	
Grade Mode: Normal Grading Mode		Grade Mode: Normal Grading Mode	
GEO 429 Princ of GIS 2-Vector Analysis	4 Credit hours	GEO 480 Special Topics	1-4 Credit hours
Continuation of GEO 426 Principles of GIS, including additional principles like data management, cartographic design, and geocoding; and vector analyses like spatial analysis, spatial autocorrelation, and network analysis.		Grade Mode: Normal Grading Mode	
Pre-req: GEO 426 or GEO 430 or IST 423.		GEO 481 Special Topics	1-4 Credit hours
Grade Mode: Normal Grading Mode		Grade Mode: Normal Grading Mode	
GEO 430 GIS-Raster Analysis	4 Credit hours	GEO 482 Special Topics	1-4 Credit hours
GIS raster analysis, including local, neighborhood, and zonal operations, terrain analysis, building raster databases, distance modeling, and surface interpolation. Data collection and input from readily available sources, creation of custom data using GPS and advanced spatial analysis using GIS. (PR: GEO 429)		Grade Mode: Normal Grading Mode	
Pre-req: GEO 426 or GEO 429 or IST 423.		GEO 483 Special Topics	1-4 Credit hours
Grade Mode: Normal Grading Mode		Grade Mode: Normal Grading Mode	
GEO 431 Remote Sensing & Photogram	4 Credit hours	GEO 485 Independent Study	1-4 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.		Attributes: No Textbook Required	
Pre-req: GEO 426 or GEO 429 or GEO 430 or IST 423.		Grade Mode: Normal Grading Mode	
Grade Mode: Normal Grading Mode		GEO 486 Independent Study	1-4 Credit hours
GEO 432 Enterprise GIS	3 Credit hours	Attributes: No Textbook Required	
Principles and techniques for planning, implementing, and managing Geographic Information Systems technologies in a firm or agency.		Grade Mode: Normal Grading Mode	
Pre-req: GEO 426 or GEO 429 or GEO 430 or GEO 431 or IST 423.		GEO 487 Independent Study	1-4 Credit hours
Grade Mode: Normal Grading Mode		Grade Mode: Normal Grading Mode	
GEO 433 GPS & Mobile Geospatial Tech	3 Credit hours	GEO 488 Independent Study	1-4 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.		Grade Mode: Normal Grading Mode	
Pre-req: GEO 426 or GEO 429 or GEO 430 or GEO 431 or IST 423.		GEO 490 Internship	1-6 Credit hours
Grade Mode: Normal Grading Mode		Cooperative learning experience with regional employer/government agency.	
GEO 434 Floods Hazards and GIS	3 Credit hours	Attributes: No Textbook Required	
Application of principles of flood hazards preparation, disaster management, and mitigation using Geographic Information Systems (GIS).		Grade Mode: Credit/No Credit Grade Only	
Grade Mode: Normal Grading Mode		GEO 498 🌿 Senior Capstone	2 Credit hours
GEO 440 Spatial Statistics and GIS	4 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.	
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.		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).	
Grade Mode: Normal Grading Mode		Attributes: Capstone Course	
GEO 454 Drones: Remote Sensing & GIS	3 Credit hours	Grade Mode: Normal Grading Mode	
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.		GEO 499 🌿 Senior Capstone II	1-3 Credit hours
Grade Mode: Normal Grading Mode		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 and (MTH 225 or GEO 440 or MGT 218 or PSY 223 or SOC 345 or ANT 301 or EDF 417).	
		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		
<i>Core 1: Critical Thinking</i>		
FYS 100	First Yr Sem Critical Thinking	3
STA 225 	Introductory Statistics (CT)	3
GEO 100 	Intro to Human Geography (CT)	3
<i>Core 2</i>		
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
<i>Additional University Requirements</i>		
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

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 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
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		
<i>Core 1: Critical Thinking</i>		
FYS 100	First Yr Sem Critical Thinking	3
STA 225 	Introductory Statistics (CT)	3
GEO 100 	Intro to Human Geography (CT)	3
<i>Core 2</i>		
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
<i>Additional University Requirements</i>	
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
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	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. 415)
- Meteorology, Emphasis (p. 417)
- Weather Broadcasting, Emphasis (p. 419)

🌿 - General Education Course

🎓 - 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		
<i>Core 1: Critical Thinking</i>		
FYS 100	First Yr Sem Critical Thinking	3
STA 225 	Introductory Statistics (CT)	3
GEO 100 	Intro to Human Geography (CT)	3
<i>Core 2</i>		
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
<i>Additional University Requirements</i>		
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
<i>GIS Technologies</i>		
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	
<i>GIS Analysis and Application</i>		
Select a minimum of six credits of the following:		6
GEO 429	Princ of GIS 2-Vector Analysis	
GEO 430	GIS-Raster Analysis	
GEO 432	Enterprise GIS	
GEO 440	Spatial Statistics and GIS	
GEO 490	Internship	
<i>GIScience Electives</i>		
Select additional GIScience (GEO) courses to reach a minimum of 21 credit hours beyond the Geography 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		
<i>Core 1: Critical Thinking</i>		
FYS 100	First Yr Sem Critical Thinking	3
STA 225 	Introductory Statistics (CT)	3
GEO 100 	Intro to Human Geography (CT)	3
<i>Core 2</i>		
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
Weather Analysis course			4
GEO 431		Remote Sensing & Photogram	4

Meteorology 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	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

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

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		
<i>Core 1: Critical Thinking</i>		
FYS 100	First Yr Sem Critical Thinking	3
STA 225 	Introductory Statistics (CT)	3
GEO 100 	Intro to Human Geography (CT)	3
<i>Core 2</i>		
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
<i>Additional University Requirements</i>		
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 Hrzds	4
GEO 425	Climatology	4
Weather Analysis course		4
GEO 490	Internship	3
JMC 332	Intro to Video Production	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
<i>Meteorology Area of Emphasis Courses</i>		
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 Hrzds	4
GEO 425	Climatology	4
Weather Analysis course		4
GEO 431	Remote Sensing & Photogram	4
Meteorology Restricted Elective:		
Select one of the following:		3
PHY 308	Thermal Physics	
ENGR 219	Engineering Thermodynamics	
PHY 330	Mechanics	
ENGR 214	Dynamics	

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	3
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	Princ of GIS 2-Vector Analysis	4
GEO 430	GIS-Raster Analysis	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. 427)
- History, B.A. (p. 427)
- History, Minor (p. 429)
- Teaching, M.A.T. (p. 429)
- United States History, Minor (p. 429)
- World History, Minor (p. 429)

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.

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

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.

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.

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.

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.

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.

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.

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.

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.

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.

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.

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.

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.

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.

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.

Grade Mode: Normal Grading Mode

HST 281 Special Topics**1-4 Credit hours**

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.

Grade Mode: Normal Grading Mode

HST 283 Special Topics**1-4 Credit hours**

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.

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.

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.

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 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.

Attributes: American Institutions, Multicultural, 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)

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.

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.

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.

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.

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.

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.

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 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 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 food-ways 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.

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 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.

Attributes: European History

Grade Mode: Normal Grading Mode

HST 407 History of Sexuality**3 Credit hours**

Examines the history of sexuality in North America in the context of cultural, legal, economic, political and social history from the 16th century to the 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.

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.

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.

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.

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.

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.

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.

Attributes: American Institutions, United States History

Grade Mode: Normal Grading Mode

HST 425 European Hist 1814-1914**3 Credit hours**

A century of European political, 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.

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.

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 foreign 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.

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.

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.

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.

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.

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	HST 451 History of Women in Sports	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.		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: World History		Attributes: United States History	
Grade Mode: Normal Grading Mode		Grade Mode: Normal Grading Mode	
HST 440 West Virginia History	3 Credit hours	HST 452 History of Sports in America	3 Credit hours
An interdisciplinary study of the state, its people and its institutions within the national context.		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: American Institutions, United States History		Attributes: United States History	
Grade Mode: Normal Grading Mode		Grade Mode: Normal Grading Mode	
HST 443 20th Century US Womens Hst	3 Credit hours	HST 453 The Kennedy Assassination	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 events surrounding the assassination of President John F. Kennedy.	
Attributes: United States History		Grade Mode: Normal Grading Mode	
Grade Mode: Normal Grading Mode		HST 454 History of Ireland	3 Credit hours
HST 444 US Popular Culture	3 Credit hours	This course explores the history of Ireland from the Middle Ages to the Present.	
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: European History	
Attributes: United States History		Grade Mode: Normal Grading Mode	
Grade Mode: Normal Grading Mode		HST 458 Spies in History	3 Credit hours
HST 445 Arab-Israeli Conflict	3 Credit hours	This course explores the role played by spies and espionage in modern history.	
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	
Attributes: World History		Grade Mode: Normal Grading Mode	
Grade Mode: Normal Grading Mode		HST 462 The Viking World	3 Credit hours
HST 446 Rise of Atlantic World	3 Credit hours	By analyzing saga literature, poetry, and artifacts, students will examine the history of medieval Scandinavia.	
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: European History	
Attributes: World History		Grade Mode: Normal Grading Mode	
Grade Mode: Normal Grading Mode		HST 465 Medieval Britain	3 Credit hours
HST 447 Film and Empire	3 Credit hours	An examination of mainland Britain from the pre-Roman era through the Hundred Years War.	
This course explores the nature and importance of empires through the reading of key texts and the study of selected films.		Attributes: European History	
Attributes: World History		Grade Mode: Normal Grading Mode	
Grade Mode: Normal Grading Mode		HST 467 Fashion and Textile History	3 Credit hours
HST 448 British History in Film	3 Credit hours	Cross-cultural comparisons of textiles as primary sources for prehistoric cultures through the 1920's.	
This course explores selected aspects of British history through the study of films and key texts.		Attributes: World History	
Attributes: European History		Grade Mode: Normal Grading Mode	
Grade Mode: Normal Grading Mode		HST 480 Special Topics	1-4 Credit hours
HST 449 World War I in Film	3 Credit hours	Grade Mode: Normal Grading Mode	
This course explores the origins, course, and meaning of World War I (1914-1918) through the use of selected films and readings.		HST 481 Special Topics	1-4 Credit hours
Attributes: World History		Grade Mode: Normal Grading Mode	
Grade Mode: Normal Grading Mode		HST 482 Special Topics	1-4 Credit hours
HST 450 Baseball in the Americas	3 Credit hours	Grade Mode: Normal Grading Mode	
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.		HST 483 Special Topics	1-4 Credit hours
Attributes: United States History		Grade Mode: Normal Grading Mode	
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
Grade Mode: Normal Grading Mode

1-4 Credit hours

HST 488 Independent Study
Grade Mode: Normal Grading Mode

1-4 Credit hours

Faculty




Professors

Barksdale, Holbrook, Miller, Palmer, Rutherford, Williams, White

Associate Professors


Deal, Diener, Rensenbrink, Tabyshalieva, Trowbridge

European History, Minor

Code	Title	Credit Hours
Select two of the following general surveys of World History courses:		
HST 101 	Great Civs to 1300 (CT)	6
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		
<i>Core 1: Critical Thinking</i>		
FYS 100	First Yr Sem Critical Thinking	3
MTH 121 	Concepts and Applications (CT)	3
HST 101 	Great Civs to 1300 (CT)	3
<i>Core 2</i>		
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
<i>Additional University Requirements</i>		
Writing Intensive		3

Writing Intensive		3
HST 103 	The World Since 1850 (CT) (Multicultural or International)	3
HST 400 	Senior Seminar (Capstone)	3
<i>College-Specific</i>		
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
<i>United States History 300/400 Elective</i>		
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		History of Sexuality
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 450	Baseball in the Americas
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. Natsuki Anderson, 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. 438)
- French, Minor (p. 439)
- German, Minor (p. 439)

- Japanese Studies, Minor (p. 439)
- Japanese, B.A. (p. 440)
- Japanese, Minor (p. 441)
- Spanish Studies, Minor (p. 441)
- Spanish, B.A. (p. 441)
- Spanish, Minor (p. 443)

Courses

 - General Education Course

French

FRN 101 Elementary French I 3 Credit hours

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.

Pre-req: FRN 101 with a minimum grade of C.

Grade Mode: Normal Grading Mode

FRN 112 Basic French 3 Credit hours

Combination of French 101 and 102. Students completing the course with a grade of C or better are awarded three additional hours of credit toward graduation.

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.

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.

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 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.

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)

Pre-req: FRN 204.

Grade Mode: Normal Grading Mode

FRN 306 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)

Pre-req: FRN 204.

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.

Pre-req: FRN 204.

Grade Mode: Normal Grading Mode

FRN 316 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.

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.

Pre-req: FRN 204.

Attributes: Literature

Grade Mode: Normal Grading Mode

FRN 318 Survey French Literature 3 Credit hours

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)

Pre-req: FRN 204.

Grade Mode: Normal Grading Mode

FRN 324 Adv Frn Gram & Oral Com 3 Credit hours

Analysis of grammatical structure 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 336 Frn Civilization and Culture	3 Credit hours	FRN 425 Devel of French Prose I	3 Credit hours
Pre-req: FRN 204.		An analysis of the important works that mark the evolution of French Prose writers from the Middle Ages through the 18th Century.	
Grade Mode: Normal Grading Mode		Readings and discussions are in French.	
FRN 401 17th Century French Theater	3 Credit hours	Pre-req: FRN 204.	
Study of representative plays by the classical dramatists Corneille, Moliere, and Racine. This course is conducted entirely in French.		Grade Mode: Normal Grading Mode	
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.		FRN 427 Dev Frn Poetry-Theater I	3 Credit hours
Attributes: Literature		A study of literary works illustrating the development of poetry and theater in France from the Middle Ages through the 18th Century.	
Grade Mode: Normal Grading Mode		Pre-req: FRN 317 and FRN 318.	
FRN 402 18th Century French Lit	3 Credit hours	Grade Mode: Normal Grading Mode	
Study of representative works by the philosophes, Montesquieu, Rousseau, Voltaire, and Diderot. The course will be conducted in French. (PR: FRN 204)		FRN 428 Dev Frn Poetry-Theater II	3 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.		A study of literary works illustrating the development of poetry and theater in France during the 19th and 20th Centuries.	
Attributes: Literature		Pre-req: FRN 204.	
Grade Mode: Normal Grading Mode		Grade Mode: Normal Grading Mode	
FRN 403 19th Century French Novel	3 Credit hours	FRN 480 Special Topics	1-4 Credit hours
A study of major novels chosen to illustrate the romantic, realistic, and naturalistic literary movements. The course is conducted in French.		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.		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	
Grade Mode: Normal Grading Mode		FRN 481 Special Topics	1-4 Credit hours
FRN 404 🌿 20th Century French Novel	3 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 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.	
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	
Attributes: International		FRN 482 Special Topics	1-4 Credit hours
Grade Mode: Normal Grading Mode		A course for advanced students sufficiently prepared to do constructive work in phases of the language or literature of interest to them.	
FRN 406 🌿 Frn Civilization & Cult	3 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.	
French culture from prehistoric to modern times with emphasis on contemporary life and French institutions. This course is conducted in French, and full language credit is given.		Grade Mode: Normal Grading Mode	
Pre-req: FRN 204.		FRN 483 Special Topics	1-4 Credit hours
Attributes: International		A course for advanced students sufficiently prepared to do constructive work in phases of the language or literature of interest to them.	
Grade Mode: Normal Grading Mode		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.	
FRN 407 Foreign Lang Tchg Meth	3 Credit hours	Grade Mode: Normal Grading Mode	
Analysis and practical application of methods of teaching foreign language, including professional development, language pedagogy, and language standards. To be taken concurrently with CI 470.		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.		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.	
Co-req: CI 470		Grade Mode: Normal Grading Mode	
Grade Mode: Normal Grading Mode		FRN 486 Independent Study	1-4 Credit hours
FRN 417 Contemporary Frn Film	3 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.	
Course on selected films by French directors of the New Wave and the Post New-Wave period.		Grade Mode: Normal Grading Mode	
Grade Mode: Normal Grading Mode		FRN 487 Independent Study	1-4 Credit hours
FRN 418 Contemporary Frn Film	3 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.	
Course on selected films by French directors of the New Wave and the Post New-Wave period.		Grade Mode: Normal Grading Mode	
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.

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.

Pre-req: GER 101 with a minimum grade of C.

Grade Mode: Normal Grading Mode

GER 132 Intensive German II 4 Credit hours

Grade Mode: Normal Grading Mode

GER 134 Intensive German III 4 Credit hours

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)

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)

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.

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 282 Special Topics 1-4 Credit hours

Grade Mode: Normal Grading Mode

GER 283 Special Topics 1-4 Credit hours

Grade Mode: Normal Grading Mode

GER 302 Prose 19Th & 20Th Cent 3 Credit hours

A survey of literary trends and main authors. Reading and comprehension of selected stories and discussion of novels.

Pre-req: GER 204.

Attributes: Literature

Grade Mode: Normal Grading Mode

GER 312 Foreign Lang Teach Techniques 3 Credit hours

Introduction to the Communicative Approach to language teaching. Presentation and practice in the creation of lesson plans using in-class technologies and computer- assisted language learning materials. For Education majors only.

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 405 🌿 German Civiliza & Culture 3 Credit hours

German culture from prehistoric times to present-day divided Germany. Lectures, reports, discussions, representative readings in English and German.

Pre-req: GER 204.

Attributes: Multicultural

Grade Mode: Normal Grading Mode

GER 406 🌿 German Civiliza & Culture 3 Credit hours

German culture from prehistoric times to present-day divided Germany. Lectures, reports, discussions, representative readings in English and German.

Pre-req: GER 204.

Attributes: Multicultural

Grade Mode: Normal Grading Mode

GER 419 Ger Lit-Classical Age 3 Credit hours

German literature of the classical age, stressing Goethe, Schiller, and romanticism.

Pre-req: GER 204.

Attributes: Literature

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 482 Special Topics 1-4 Credit hours

Grade Mode: Normal Grading Mode

GER 483 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

GER 487 Independent Study 1-4 Credit hours
Pre-req: GER 204.
Grade Mode: Normal Grading Mode

GER 488 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 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.
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.
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.
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.
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.
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.
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.
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.
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.
Pre-req: JPN 305.
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.
Pre-req: JPN 204.
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, grammar, and listening.
Pre-req: JPN 204.
Grade Mode: Normal Grading Mode

JPN 335 🌳 JPN Society & Culture 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 Japanese.
Pre-req: JPN 204.
Attributes: International
Grade Mode: Normal Grading Mode

JPN 401 🌿 Readings in Adv Japanese I	3 Credit hours	JPN 487 Independent Study	1-4 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.		Grade Mode: Normal Grading Mode	
Pre-req: JPN 315 or JPN 316.		JPN 488 Independent Study	1-4 Credit hours
Attributes: International		Grade Mode: Normal Grading Mode	
Grade Mode: Normal Grading Mode		JPN 490 🌿 Japanese Capstone	3 Credit hours
JPN 402 🌿 Readings in Adv Japanese II	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.	
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.	
Pre-req: JPN 401.		Attributes: International	
Attributes: International, No Textbook Required		Grade Mode: Normal Grading Mode	
Grade Mode: Normal Grading Mode		Spanish	
JPN 403 Japanese Film in English	3 Credit hours	SPN 101 Introductory Spanish	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.		Pronunciation, vocabulary and basic language structures. For students with no foreign language experience.	
Grade Mode: Normal Grading Mode		Grade Mode: Normal Grading Mode	
JPN 407 Japanese Teaching Methodology	3 Credit hours	SPN 102 Introductory Spanish II	3 Credit hours
Analysis and practical application of teaching Japanese, including professional development, language pedagogy, and language standards. For Japanese education majors only.		Pronunciation, vocabulary and basic language structures. For students with no foreign language experience.	
Pre-req: JPN 315.		Pre-req: SPN 101 with a minimum grade of C.	
Co-req: CI 470		Grade Mode: Normal Grading Mode	
Grade Mode: Normal Grading Mode		SPN 112 Elementary Spanish	3 Credit hours
JPN 408 🌿 Lit Asians in Americas	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.	
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.		Grade Mode: Normal Grading Mode	
Pre-req: ENG 101.		SPN 203 Intermediate Spanish III	3 Credit hours
Attributes: International		Emphasis on oral and written communication. Conversation and composition. Intermediate language structures.	
Grade Mode: Normal Grading Mode		Pre-req: SPN 102 with a minimum grade of C or SPN 112 with a minimum grade of C.	
JPN 480 Japanese Special Topics	1-4 Credit hours	Grade Mode: Normal Grading Mode	
Study of a topic not normally covered in courses.		SPN 204 Intermediate Spanish IV	3 Credit hours
Pre-req: JPN 204.		Development of practical conversational skills, reading for comprehension, and directed compositions.	
Grade Mode: Normal Grading Mode		Pre-req: SPN 203 with a minimum grade of C.	
JPN 481 Japanese Special Topics	1-4 Credit hours	Attributes: Foreign Language	
Study of a topic not normally covered in courses.		Grade Mode: Normal Grading Mode	
Pre-req: JPN 204.		SPN 240 🌿 Hispanic Culture (CT)	3 Credit hours
Grade Mode: Normal Grading Mode		Taught in English, this course examines Hispanic cultures through literature and cinema.	
JPN 482 Japanese Special Topics	1-4 Credit hours	Attributes: Critical Thinking, Core II Humanities, International	
Study of a topic not normally covered in courses.		Grade Mode: Normal Grading Mode	
Pre-req: JPN 204.		SPN 245 🌿 Chicano/a Identities (CT)	3 Credit hours
Grade Mode: Normal Grading Mode		Taught in English, this course examines the Chicano Movement as a civil rights movement, as well as cultural and artistic movement.	
JPN 483 Japanese Special Topics	1-4 Credit hours	Attributes: Critical Thinking, Core II Humanities	
Study of a topic not normally covered in courses.		Grade Mode: Normal Grading Mode	
Pre-req: JPN 204.		SPN 280 Special Topics	1-4 Credit hours
Grade Mode: Normal Grading Mode		Pre-req: SPN 204.	
JPN 485 Independent Study	1-4 Credit hours	Grade Mode: Normal Grading Mode	
Pre-req: JPN 204.		SPN 281 Special Topics	1-4 Credit hours
Grade Mode: Normal Grading Mode		Pre-req: SPN 204.	
JPN 486 Independent Study	1-4 Credit hours	Grade Mode: Normal Grading Mode	
Pre-req: JPN 204.			
Grade Mode: Normal Grading Mode			

SPN 282 Special Topics Pre-req: SPN 204. Grade Mode: Normal Grading Mode	1-4 Credit hours	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.
SPN 283 Special Topics Pre-req: SPN 204. Grade Mode: Normal Grading Mode	1-4 Credit hours	Pre-req: SPN 204. Attributes: Multicultural 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. 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. Pre-req: SPN 204. Attributes: Multicultural 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 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 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) Pre-req: SPN 204. Grade Mode: Normal Grading Mode		SPN 407 Frng Lang Tchng Meth 3 Credit hours Analysis and practical application of methods of teaching foreign language, including professional development, language pedagogy, and language standards. To be taken concurrently with CI 470 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 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 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 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 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. Pre-req: SPN 204. 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 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. Pre-req: SPN 204. 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 instructor, 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 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 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 315/316 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 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 practice 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.

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.

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.

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.

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:		
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		
<i>Core 1: Critical Thinking</i>		
FYS 100	First Yr Sem Critical Thinking	3
MTH 121 🌿🎓	Concepts and Applications (CT)	3
Critical Thinking Course		3
<i>Core 2</i>		
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
<i>Additional University Requirements</i>		
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











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- Students must earn a C or better in ENG 201 Advanced Composition and all foreign language courses.
- Minimum of 120 hours to graduate.
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🌿 - General Education Course

🎓 - 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		
<i>Core 1: Critical Thinking</i>		
FYS 100	First Yr Sem Critical Thinking	3
MTH 121  	Concepts and Applications (CT)	3
Critical Thinking Course		3
<i>Core 2</i>		
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
<i>Additional University Requirements</i>		
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. 447)
- Political Science, Minor (p. 449)
- Public Administration, Accelerated Master's Degree (p. 450)

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 constitutionalism, 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.

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.

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.

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.

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.

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.

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.

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.

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.

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.

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)

Attributes: American Institutions

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.

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.

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.

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.

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.

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.

Attributes: American Institutions

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.

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.

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.

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.

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 Britain 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.

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.

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 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 economic 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.

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.

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.

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.

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.

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 political 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.

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.

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.

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 perspectives 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.

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.

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.

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.

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.

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.

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.

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.

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.

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.

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.

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.

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.

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.

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.

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 philosophy to contemporary political questions. Capstone experience 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

Behrman, Morrisette, Warner, Schulenberg

Associate Professors


Arthur, Beller, Davis

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		
<i>Core 1: Critical Thinking</i>		
FYS 100	First Yr Sem Critical Thinking	3
PSC 105 	Fundamentals of Politics (CT)	3
PSC 104 	Am Natl Govt & Politics (CT)	3
<i>Core 2</i>		
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
<i>Additional University Requirements</i>		
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 211 🌿	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
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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		
PSC 211 🌿	Research in Political Science	3
Foreign Language 101		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. 453)
- Psychology, B.A. (p. 454)
- Psychology, Minor (p. 455)

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.

Grade Mode: Normal Grading Mode

PSY 201 🌿 Introductory Psychology (CT) **3 Credit hours**
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.

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.

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.

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 exercises 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 projection, 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.

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.

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.

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.

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.

Pre-req: PSY 223.

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.

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.

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.

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 aggression.

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 403 Applied Social Psychology**3 Credit hours**

Examination of the applications of social psychological methods, theories, principles and research findings to the understanding or solution of social problems.

Pre-req: PSY 302.

Grade Mode: Normal Grading Mode

PSY 406 Psychometrics**3 Credit hours**

Mental test theory and applications.

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.

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, 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.

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.

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.

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 or PSY 201E or PSY 201H.

Grade Mode: Normal Grading Mode

PSY 422 Psychology of Machines**3 Credit hours**

Human factors are integral in the design of today's products. This class focuses on the psychological principles involved in current technologies and psychology's use to create better products.

Grade Mode: Normal Grading Mode

PSY 424 Environmental Psychology**3 Credit hours**

This course will focus on human interactions with the natural and built environment. We will examine human behavior and experiences. Topics will range from natural phenomenon to human constructed environments.

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.

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 427 Computer Applications in PSY**3 Credit hours**

An introduction to computer applications in psychology, emphasizing data collection, management, organization, analysis and reporting.

Pre-req: PSY 201 or PSY 201E or PSY 201H and PSY 223.

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.

Pre-req: PSY 201 or PSY 201H.

Grade Mode: Normal Grading Mode

PSY 433 Curr Models Psychotherapy**3 Credit hours**

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.

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.

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.

Pre-req: PSY 201 or PSY 201E or PSY 201H.

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.

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.

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/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 418 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: 12 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.

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 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 other- wise treated in regular course offerings.

Pre-req: PSY 201 or PSY 201E or PSY 201H.

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 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 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.

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

Bogges, Canady, Choi, Lanning

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		
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		
Core II Natural/Physical Science		4
Core II Humanities		
PSY 201	Introductory Psychology (CT) (Core II Social Science)	3
Core II Fine Arts		
Additional University Requirements		
Writing Intensive		
Writing Intensive		3
Multicultural or International		
PSY Capstone		3
College-Specific		
Foreign Language 101		
Foreign Language 101		3
Foreign Language 102		
Foreign Language 102		3
Foreign Language 203		
Foreign Language 203		3
Foreign Language 204		
Foreign Language 204		3
COLA Literature		
COLA Literature		3
COLA Humanities		
COLA Humanities		3
PSY 223		
PSY 223	Elem Behavioral Stat (COLA Social Science)	3
COLA Social Science (not PSY)		
COLA Social Science (not PSY)		3
COLA Natural/Physical Science		
COLA Natural/Physical Science		4
COLA International		
COLA International		3
COLA Multicultural		
COLA Multicultural		3
Major-Specific		
PSY 100		
PSY 100	Psychology as a Major	1
PSY 201		
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:		
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:		
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:		
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:		
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. 461)
- Anthropology, Minor (p. 464)
- Sociology, Accelerated Master's Degree Program (p. 464)
- Sociology, B.A. (p. 464)
- Sociology, Minor (p. 466)

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.
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.

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.
Grade Mode: Normal Grading Mode

ANT 322 Archaeology **3 Credit hours**
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.
Grade Mode: Normal Grading Mode


ANT 324 Archaeological Analysis **3 Credit hours**
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.
Grade Mode: Normal Grading Mode

ANT 326 Classical Archaeology **3 Credit hours**
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.
Grade Mode: Normal Grading Mode

ANT 361 Ethnographic Research **3 Credit hours**
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.

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.

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.

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.

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.

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: 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: 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.

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 covered in regularly scheduled courses.

PR: Six credit hours of anthropology or departmental 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.

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.

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.

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.

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.

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.

Grade Mode: Normal Grading Mode

SOC 281 Special Topics**1-4 Credit hours**

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.

Grade Mode: Normal Grading Mode

SOC 283 Special Topics**1-4 Credit hours**

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.

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.
Attributes: American Institutions
Grade Mode: Normal Grading Mode
- SOC 344 Social Research I** **3 Credit hours**
 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**
 Introduction to statistical analysis of social data.
Pre-req: SOC 200 or SOC 200H.
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.
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.
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 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.
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.
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.
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 individual 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.

Pre-req: SOC 200 or SOC 200H.**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.

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.

Grade Mode: Normal Grading Mode**SOC 481 Special Topics****1-4 Credit hours**

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 regularly 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.

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.

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.

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.

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.

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.

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: Anthropology major in senior standing or departmental permission)

Attributes: Capstone Course**Grade Mode:** Normal Grading Mode

Faculty

Professors

Fondren, Freidin, Hoey, Laubach

Associate Professors

Conley, 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		
<i>Core 1: Critical Thinking</i>		
FYS 100	First Yr Sem Critical Thinking	3
ANT 201 🌿	Cultural Anthropology (CT)	3
Core I Critical Thinking		
<i>Core 2</i>		
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
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

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. 463)
- Archeological Anthropology, Emphasis (p. 463)
- Sociocultural Anthropology, Emphasis (p. 464)

🌿 - General Education Course


🎓 - 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  or ANT 491 	Culture in Ethnographies Theory in Ethnology	3
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 or ANT 324	Archaeolog Field Train Archaeological Analysis	3-6
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		
<i>Core 1: Critical Thinking</i>		
FYS 100	First Yr Sem Critical Thinking	3
SOC 200 	Introductory Sociology (CT)	3
Core I Critical Thinking		3
<i>Core 2</i>		
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 course /STA 150L		3
		or 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
<i>Additional University Requirements</i>		
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
<i>SOC Restricted Elective</i>	
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	
<i>SOC Elective</i>	
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 Intensive		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.

Division of Finance and Economics

Contacts: Dr. Richard Agesa, Head, Division of Finance and Economics

agesa@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. 468)
- Economics, Minor (p. 468)

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)
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.
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.
Pre-req: ECN 250 or ECN 200.
Grade Mode: Normal Grading Mode
- ECN 280 Special Topics** **1-4 Credit hours**
Grade Mode: Normal Grading Mode
- ECN 281 Special Topics** **1-4 Credit hours**
Grade Mode: Normal Grading Mode
- ECN 282 Special Topics** **1-4 Credit hours**
Grade Mode: Normal Grading Mode
- ECN 283 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 253 or ECN 241) and (ECN 250 or ECN 242 or ECN 200).
Attributes: American Institutions
Grade Mode: Normal Grading Mode
- ECN 326 Int Macroeconomic Analysis** **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.
Pre-req: (ECN 200 or ECN 250) and ECN 253.
Attributes: American Institutions
Grade Mode: Normal Grading Mode
- ECN 328 Int Microeconomic Analysis** **3 Credit hours**
Micro-economic theories of the production and pricing of goods and services, payments to the factors of production.
Pre-req: (ECN 200 or ECN 250) and ECN 253.
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.
Grade Mode: Normal Grading Mode
- ECN 408  Comparative Econ Systems** **3 Credit hours**
Marxism, capitalism, communism, facism and socialism considered as theories, movements and actual political economies.
Pre-req: (ECN 200 or ECN 250 or ECN 242) and ECN 253.
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.
Pre-req: (ECN 250 or ECN 242 or ECN 200) and (ECN 253 or ECN 241).
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.
Pre-req: (ECN 253 or ECN 241) and (ECN 250 or ECN 242 or ECN 200).
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.
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 or MGT 218E or MGT 318 or MTH 225 or STA 225 or IST 130 or EDF 417 or PSY 223 or SOC 345) and (ECN 253 or ECN 241).
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 200 or ECN 250 or ECN 242).
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 200 or ECN 250 or ECN 242) and (ECN 253 or ECN 241).

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.

Pre-req: ECN 326 and ECN 328 and ECN 423.

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)

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.

Pre-req: (ECN 200 or ECN 250 or ECN 242) and (ECN 253 or ECN 241).

Grade Mode: Normal Grading Mode

ECN 481 Special Topics**1-4 Credit hours**

Members of the department may teach, when necessary, any economics subject not listed among the current course offerings.

Pre-req: (ECN 250 or ECN 242 or ECN 200) and (ECN 253 or ECN 241).

Grade Mode: Normal Grading Mode

ECN 482 Special Topics**1-4 Credit hours**

Members of the department may teach, when necessary, any economics subject not listed among the current course offerings.

Pre-req: (ECN 250 or ECN 242 or ECN 200) and (ECN 253 or ECN 241).

Grade Mode: Normal Grading Mode

ECN 483 Special Topics**1-4 Credit hours**

Members of the department may teach, when necessary, any economics subject not listed among the current course offerings.

Pre-req: (ECN 250 or ECN 242 or ECN 200) and (ECN 253 or ECN 241).

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.

Grade Mode: Normal Grading Mode

ECN 486 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.

Grade Mode: Normal Grading Mode

ECN 487 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.

Grade Mode: Normal Grading Mode

ECN 488 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.

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 advance and the student's performance will be evaluated.

Grade Mode: Credit/No Credit Grade Only

Faculty

Professor

R. Agesa

Associate Professor

McCutcheon

Assistant Professor

Biswas, Duang, 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. Richard Agesa 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

Economics, Minor

Students, alternatively, may earn a Minor in Economics by completing 15 hours in Economics, with no more than 6 of those hours at the 200 level or lower.

Humanities

Contacts: Dr. John N. Vielkind, Chair; ;

vielkind@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 solid basis for professional training in law and medicine;
- preparation for occupations connected with Classical Archaeology;
- a basis for work in various government positions where there is a long tradition of hiring people with a classical background; and
- 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. 477)
- General Humanities, Minor (p. 477)
- Greek, Minor (p. 477)
- Humanities, B.A. (p. 478)
- Latin, B.A. (p. 484)
- Latin, Minor (p. 486)
- Philosophy, Minor (p. 486)
- Religious Studies, Minor (p. 486)

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).

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.

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).

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.

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 rhetorical 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.

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 thematic 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.

Pre-req: ENG 101 or ENG 101P or ENG 200H or ENG 201H.

Attributes: Critical Thinking, Core II Humanities, Literature, Multicultural

Grade Mode: Normal Grading Mode

CL 250 🌐 Studies in Humanities (CT) 3 Credit hours

An interdisciplinary course to introduce students to the elements of a humanistic education. (Same as Philosophy 150 and Religious Studies 150)

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, Multicultural

Grade Mode: Normal Grading Mode

CL 280 Special Topics 1-4 Credit hours

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.

Grade Mode: Normal Grading Mode

CL 282 Special Topics 1-4 Credit hours

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.

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.

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.

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, 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 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 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 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 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.

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.

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, Crete, 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.

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.
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.
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 or ENG 101P or ENG 200H or ENG 201H) and CMM 103.
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.
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.
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.
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 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 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 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
- Greek**
- 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 301 Anc Intermed Greek** **3 Credit hours**
Varied readings including selections from Homer's Iliad, Dialogues of Plato and the New Testament.
Pre-req: GRK 202.
Grade Mode: Normal Grading Mode

GRK 302 Anc Intermed Greek Pre-req: GRK 301. Attributes: Foreign Language Grade Mode: Normal Grading Mode	3 Credit hours	LAT 282 Special Topics Pre-req: LAT 204. Grade Mode: Normal Grading Mode	1-4 Credit hours
GRK 480 Special Topics Grade Mode: Normal Grading Mode	1-4 Credit hours	LAT 283 Special Topics Pre-req: LAT 204. Grade Mode: Normal Grading Mode	1-4 Credit hours
GRK 485 Independent Study Pre-req: GRK 302. Grade Mode: Normal Grading Mode	1-4 Credit hours	LAT 308 Catullus 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	3 Credit hours
GRK 486 Independent Study Pre-req: GRK 302. Grade Mode: Normal Grading Mode	1-4 Credit hours	LAT 311 Readings in Ovid Close reading in Latin of selections from Ovid's erotic and epic poetry. Pre-req: LAT 204. Attributes: Literature Grade Mode: Normal Grading Mode	3 Credit hours
GRK 487 Independent Study Pre-req: GRK 302. Grade Mode: Normal Grading Mode	1-4 Credit hours	LAT 315 Sallust and Nepos A close reading in Latin of selected works from Sallust and Nepos. Pre-req: LAT 204. Grade Mode: Normal Grading Mode	3 Credit hours
GRK 488 Independent Study Pre-req: GRK 302. Grade Mode: Normal Grading Mode	1-4 Credit hours	LAT 323 Latin Prose Comp: Tacitus 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	1 Credit hour
Latin		LAT 403 Roman Comedy Pre-req: LAT 204. Attributes: Literature Grade Mode: Normal Grading Mode	3 Credit hours
LAT 101 First Year Latin Grade Mode: Normal Grading Mode	3 Credit hours	LAT 404 Roman Elegy: Prop & Tib Close readings in Latin of selections from the elegies of Propertius and Tibullus. Pre-req: LAT 204. Attributes: Literature Grade Mode: Normal Grading Mode	3 Credit hours
LAT 102 First Year Latin Pre-req: LAT 101. Grade Mode: Normal Grading Mode	3 Credit hours	LAT 406 Horace: Odes, Epodes, Epistles Attributes: Literature Grade Mode: Normal Grading Mode	3 Credit hours
LAT 203 Intermediate Latin Varied readings including selections from Cicero's Orations and Vergil's Aeneid I-VI. Pre-req: LAT 102. Grade Mode: Normal Grading Mode	3 Credit hours	LAT 407 Livy's History of Rome Attributes: Literature Grade Mode: Normal Grading Mode	3 Credit hours
LAT 204 Intermediate Latin Varied readings including selections from Cicero's Orations and Vergil's Aeneid I-VI. Pre-req: LAT 203. Attributes: Foreign Language Grade Mode: Normal Grading Mode	3 Credit hours	LAT 408 Roman Epistolary Lit 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	3 Credit hours
LAT 250 Conversational Latin I Introduction to basic skills of oral comprehension, composition and pronunciation of Latin. Pre-req: LAT 101. Grade Mode: Normal Grading Mode	1 Credit hour	LAT 409 Roman Satire 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	3 Credit hours
LAT 251 Conversational Latin II Introduction to basic skills of oral comprehension, composition and pronunciation of Latin. Pre-req: LAT 101. Grade Mode: Normal Grading Mode	1 Credit hour		
LAT 252 Conversational Latin III Introduction to basic skills of oral comprehension, composition, and pronunciation of Latin. Grade Mode: Normal Grading Mode	1 Credit hour		
LAT 280 Special Topics Pre-req: LAT 204. Grade Mode: Normal Grading Mode	1-4 Credit hours		
LAT 281 Special Topics Pre-req: LAT 204. Grade Mode: Normal Grading Mode	1-4 Credit hours		

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.

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 chairman 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.

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.

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.

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.

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.

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 Existence****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 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.

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.

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.
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.
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.
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 stand- points (for example, racial, gender, and ethnic differences).
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.
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).
Grade Mode: Normal Grading Mode
- PHL 320 🌿 Comparative Philosophy** **3 Credit hours**
The relations of the world's philosophies 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.
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.
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.
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.
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.
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 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 303E 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 400 Ancient Philosophy** **3 Credit hours**
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**
Rationale: "Western" is redundant, since it is debatable whether the term "philosophy" can be extended to non- Western disciplines. Similarly, current philosophy courses do not specify "Western."
Rationale: "
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).
Grade Mode: Normal Grading Mode
- PHL 421 Philosophy of Knowledge** **3 Credit hours**
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.
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.
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.

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 research 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.

Grade Mode: Normal Grading Mode

PHL 482 Special Topics**1-4 Credit hours**

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.

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 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 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 Traditions of West****3 Credit hours**

A comparative study of major religious traditions of the Western world: Judaism, Christianity, Islam, Zoroastrianism 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.

Attributes: Core II Humanities, International

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.

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.

Attributes: Core II Humanities, Literature

Grade Mode: Normal Grading Mode

RST 250 🌿 Studies in Humanities (CT)**3 Credit hours**

An interdisciplinary course to introduce students to the elements of a humanistic education. (Same as Classical Studies 150 and Philosophy 150).

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

RST 280 Special Topics**1-4 Credit hours**

Research adaptable to the needs of the individual student.

Grade Mode: Normal Grading Mode

RST 281 Special Topics	1-4 Credit hours	RST 324 The Jewish Way of Life	3 Credit hours
Research adaptable to the needs of the individual student.		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		Grade Mode: Normal Grading Mode	
RST 282 Special Topics	1-4 Credit hours	RST 351 Classics of Rel Lit	3 Credit hours
Research adaptable to the needs of the individual student.		A contextual analysis of selected popular religious classics, e.g., Foxe's Book of Martyrs, Bunyan's Pilgrim's Progress, St. Augustine's Confessions, Bhagavad-Gita, and the like.	
Grade Mode: Normal Grading Mode		Attributes: Literature	
RST 283 Special Topics	1-4 Credit hours	Grade Mode: Normal Grading Mode	
Research adaptable to the needs of the individual student.		RST 360 Hindu Mysticism	3 Credit hours
Grade Mode: Normal Grading Mode		A general survey of religious life and mysticism throughout South Asian history.	
RST 300 🌳 The Nature of Religion	3 Credit hours	Grade Mode: Normal Grading Mode	
An analysis of the nature of religious personalities, institutions, literature, philosophies, experiences, and education.		RST 361 🌳 Buddhism	3 Credit hours
Attributes: Multicultural		General survey of Buddhist life throughout history and around the world.	
Grade Mode: Normal Grading Mode		Attributes: International	
RST 303 🌳 World of Islam	3 Credit hours	Grade Mode: Normal Grading Mode	
An examination of the global cultures of Islam with particular focus upon the origin and development of the religion which binds them together.		RST 390 Junior Seminar in Humanities	3 Credit hours
Attributes: International		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).	
Grade Mode: Normal Grading Mode		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.	
RST 304 The Teachings of Jesus	3 Credit hours	Grade Mode: Normal Grading Mode	
An analysis of early Christian writing and a systematic study of the message of the historical Jesus that stands behind it.		RST 391 Junior Seminar in Humanities	3 Credit hours
Attributes: Literature		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).	
Grade Mode: Normal Grading Mode		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.	
RST 305 Early Christianity	3 Credit hours	Grade Mode: Normal Grading Mode	
Traces the background, birth, and development of Christian thought from Paul through Augustine.		RST 392 Junior Seminar	3 Credit hours
Grade Mode: Normal Grading Mode		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).	
RST 310 The Hebrew Prophets	3 Credit hours	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.	
The rise of the office of prophet and the contributions of prophecy to religion.		Grade Mode: Normal Grading Mode	
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?			
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.			
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.			
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)			
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.

Grade Mode: Normal Grading Mode

RST 450 Sociology of Religion**3 Credit hours**

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**

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 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 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 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, Ormiston, Powell, Vielkind

Associate Professors

Franzen, Ruff

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		
<i>Core 1: Critical Thinking</i>		
FYS 100	First Yr Sem Critical Thinking	3
MTH 121 	Concepts and Applications (CT)	3
Critical Thinking Course		3
<i>Core 2</i>		
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
<i>Additional University Requirements</i>		
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	
<i>CL Introductory Course</i>	
Any 200-level course except: CL 200	
<i>PHL Introductory Course</i>	
Any 200 or 300 level course, except: PHL 302, PHL 304	
<i>RST Introductory Course</i>	
Select one of the following:	3
RST 205 	Religious Trads of West
RST 206 	Religious Traditions Asia
RST 300 	The Nature of Religion
<i>Major Contract Courses</i>	
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
<i>Electives</i>	
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.

Areas of Emphasis





- Classics, Concentration (p. 479)
- Philosophy, Concentration (p. 481)
- Religious Studies, Concentration (p. 483)

 - General Education Course

 - 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







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		
<i>Core 1: Critical Thinking</i>		
FYS 100	First Yr Sem Critical Thinking	3
MTH 121 	Concepts and Applications (CT)	3
Critical Thinking Course		3
<i>Core 2</i>		
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
<i>Additional University Requirements</i>		
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		
<i>CL Introductory Course (Core II Hum)</i>		
Any 200-level course except: CL 200		3
<i>PHL Introductory Course</i>		
Any 200 or 300 level course, except: PHL 302, PHL 304		3
<i>RST Introductory Course</i>		
Select one of the following:		3
RST 205 	Religious Trad of West	
RST 206 	Religious Traditions Asia	
RST 300 	The Nature of Religion	
<i>Major Contract Courses</i>		
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
<i>Electives</i>		

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 Interdisciplinary 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
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Core Curriculum

<i>Core 1: Critical Thinking</i>		
FYS 100	First Yr Sem Critical Thinking	3
MTH 121 	Concepts and Applications (CT)	3
Critical Thinking Course		3

<i>Core 2</i>		
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-Specific	
<i>PHL Introductory Course</i>	
Any 200 or 300 level course, except: PHL 302, PHL 304	3
<i>CL Introductory Course</i>	
Any 200-level course except: CL 200	3
<i>RST Introductory Course</i>	
Select one of the following:	3
RST 205 🌿 Religious Traditions of West	
RST 206 🌿 Religious Traditions Asia	
RST 300 🌿 The Nature of Religion	
<i>Major Contract Courses</i>	
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
<i>Electives</i>	
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 in ENG 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		
<i>Core 1: Critical Thinking</i>		
FYS 100	First Yr Sem Critical Thinking	3
MTH 121 	Concepts and Applications (CT)	3
	Critical Thinking Course	3
<i>Core 2</i>		
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
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-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

Any 200-level course except: CL 200

PHL Introductory Course

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 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




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		
<i>Core 1: Critical Thinking</i>		
FYS 100	First Yr Sem Critical Thinking	3
MTH 121 	Concepts and Applications (CT)	3
	Critical Thinking Course	3
<i>Core 2</i>		
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
<i>Additional University Requirements</i>		
	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. 509)
- African and African American Studies, Minor (p. 509)
- Asian Studies, Minor (p. 510)
- Constitutional Democracy, Minor (p. 510)
- Digital Humanities, Minor (p. 511)
- Film Studies, Minor (p. 511)
- Latin American Studies, Minor (p. 512)
- Sexuality Studies, Minor (p. 512)
- Women's and Gender Studies, Minor (p. 513)

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.

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.

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.

Grade Mode: Normal Grading Mode

ANT 322 Archaeology 3 Credit hours

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.

Grade Mode: Normal Grading Mode

ANT 324 Archaeological Analysis 3 Credit hours

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.

Grade Mode: Normal Grading Mode

ANT 326 Classical Archaeology 3 Credit hours

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.

Grade Mode: Normal Grading Mode

ANT 361 Ethnographic Research 3 Credit hours

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.

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.

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.

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.

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.

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: 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: 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.

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 covered in regularly scheduled courses.

PR: Six credit hours of anthropology or departmental 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.

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.

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.

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.

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).

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.

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).

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.

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 rhetorical 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.

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 thematic 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.

Pre-req: ENG 101 or ENG 101P or ENG 200H or ENG 201H.**Attributes:** Critical Thinking, Core II Humanities, Literature, Multicultural**Grade Mode:** Normal Grading Mode**CL 250 🌿 Studies in Humanities (CT)****3 Credit hours**

An interdisciplinary course to introduce students to the elements of a humanistic education. (Same as Philosophy 150 and Religious Studies 150)

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, Multicultural**Grade Mode:** Normal Grading Mode**CL 280 Special Topics****1-4 Credit hours**

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.

Grade Mode: Normal Grading Mode**CL 282 Special Topics****1-4 Credit hours**

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.

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.

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.

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, 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 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 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 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 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.

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.

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.

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.

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.

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.

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 or ENG 101P or ENG 200H or ENG 201H) and CMM 103.

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.

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.

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.

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 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 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 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

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 non-verbal interaction in interpersonal and public communication contexts.

Attributes: 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.

Attributes: 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.

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.

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.

Attributes: 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, re- source finding, and self-directed discovery learning.

Attributes: Core II Social Sciences

Grade Mode: Normal Grading Mode

CMM 270 Intercollegiate Debate	1 Credit hour	CMM 315 Group Communication	3 Credit hours
(PR: Permission of instructor). May be repeated 3 times for credit.		Study of group communication processes, including problem solving, systems of group communication analysis and evaluation, in task oriented groups.	
Grade Mode: Normal Grading Mode		Pre-req: CMM 103 or CMM 104H or CMM 207 or YGS 161 or IST 101.	
CMM 271 Intercollegiate Debate	1 Credit hour	Grade Mode: Normal Grading Mode	
(PR: Permission of instructor). May be repeated 3 times for credit.		CMM 316 Legal Communication	3 Credit hours
Grade Mode: Normal Grading Mode		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.	
CMM 280 Special Topics	1-4 Credit hours	Pre-req: CMM 103 or CMM 104H or CMM 207 or YGS 161 or IST 101.	
Grade Mode: Normal Grading Mode		Grade Mode: Normal Grading Mode	
CMM 281 Special Topics	1-4 Credit hours	CMM 319 Superior-Subordinate Comm	3 Credit hours
Grade Mode: Normal Grading Mode		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, decision-making.	
CMM 282 Special Topics	1-4 Credit hours	Pre-req: CMM 103 or CMM 104H or CMM 207 or YGS 161 or IST 101.	
Grade Mode: Normal Grading Mode		Grade Mode: Normal Grading Mode	
CMM 283 Special Topics	1-4 Credit hours	CMM 320 Oral Interpretation Lit	3 Credit hours
Grade Mode: Normal Grading Mode		The fundamentals of reading, analyzing, and interpreting literature.	
CMM 298 Itv	1-4 Credit hours	Grade Mode: Normal Grading Mode	
A course based upon 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 department.		CMM 322 🌱 Intercultural Communication	3 Credit hours
Grade Mode: Normal Grading Mode		A study of the barriers to communication across cultures and of strategies for addressing these problems.	
CMM 302 Professional Presentations	3 Credit hours	Pre-req: CMM 103 or CMM 104H or CMM 207 or YGS 161 or IST 101.	
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.		Attributes: Multicultural	
Pre-req: CMM 103 or CMM 104H or CMM 207 or YGS 161 or IST 101.		Grade Mode: Normal Grading Mode	
Grade Mode: Normal Grading Mode		CMM 330 🌱 Performance Theory	3 Credit hours
CMM 303 Intro Communication Thry	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.	
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.	
Pre-req: CMM 103 or CMM 104H or CMM 207 or CMM 305 or YGS 161 or IST 101.		Attributes: Multicultural	
Grade Mode: Normal Grading Mode		Grade Mode: Normal Grading Mode	
CMM 307 Political Communication	3 Credit hours	CMM 345 Listening & Feedback	3 Credit hours
Investigation of the functions, ethics, responsibilities and social impact of oral communication in periods of social unrest and/or political change.		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 CMM 305 or YGS 161 or IST 101.		Pre-req: CMM 103 or CMM 104H or CMM 207 or YGS 161 or IST 101.	
Grade Mode: Normal Grading Mode		Grade Mode: Normal Grading Mode	
CMM 308 Persuasive Communication	3 Credit hours	CMM 370 Intercollegiate Debate	1 Credit hour
Introduction to the understanding, practice and analysis of persuasion. Behavioral and rhetorical theories of persuasion will be examined and applied to contemporary persuasive communications.		(PR: Permission of instructor). May be repeated 3 times for credit.	
Pre-req: CMM 103 or CMM 104H or CMM 207 or YGS 161 or IST 101.		Continuation of Speech 270-271.	
Grade Mode: Normal Grading Mode		Grade Mode: Normal Grading Mode	
CMM 310 Argumentation & Debate	3 Credit hours	CMM 371 Intercollegiate Debate	1 Credit hour
Basic principles of argument; practice in discussion and debate. Recommended but not a prerequisite for inter-collegiate debating.		(PR: Permission of instructor). May be repeated 3 times for credit.	
Pre-req: CMM 103 or CMM 104H or CMM 207 or CMM 305 or YGS 161 or IST 101.		Continuation of Speech 270-271.	
Grade Mode: Normal Grading Mode		Grade Mode: Normal Grading Mode	
CMM 311 Lang & Communication	3 Credit hours	CMM 374 Intro to Health Communication	3 Credit hours
A method for studying the role which language plays in human affairs.		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		Grade Mode: Normal Grading Mode	

CMM 401 Organization Communicatn 3 Credit hours 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 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 of films will be viewed for analysis. 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. Grade Mode: Normal Grading Mode	CMM 450 Direction Speech Activity 3 Credit hours Direction of extracurricular speech activities: assemblies, forensic events, etc. 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. Pre-req: CMM 103 or CMM 207 or CMM 104H. 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. 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 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. 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. 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. 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. Pre-req: CMM 315. 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. Attributes: Capstone Course 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. 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 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 480 Special Topics 1-4 Credit hours Grade Mode: Normal Grading Mode
CMM 413 Theories of Interpersonal Com 3 Credit hours Pre-req: CMM 213. Grade Mode: Normal Grading Mode	CMM 481 Special Topics 1-4 Credit hours 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 482 Special Topics 1-4 Credit hours Grade Mode: Normal Grading Mode
CMM 421 Gender and Communication 3 Credit hours An exploration of gender as an organizing principle for communication. 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.

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.

Grade Mode: Normal Grading Mode

FRN 102 Elementary French II 3 Credit hours

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 112 Basic French 3 Credit hours

Combination of French 101 and 102. Students completing the course with a grade of C or better are awarded three additional hours of credit toward graduation.

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.

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.

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 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.

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)

Pre-req: FRN 204.

Grade Mode: Normal Grading Mode

FRN 306 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)

Pre-req: FRN 204.

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.

Pre-req: FRN 204.

Grade Mode: Normal Grading Mode

FRN 316 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.

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.

Pre-req: FRN 204.

Attributes: Literature

Grade Mode: Normal Grading Mode

FRN 318 Survey French Literature 3 Credit hours

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)

Pre-req: FRN 204.

Grade Mode: Normal Grading Mode

FRN 324 Adv Frn Gram & Oral Com 3 Credit hours

Analysis of grammatical structure 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 336 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.

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)

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.

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.

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 406 🌍 Frn Civilization & Cult**3 Credit hours**

French culture from prehistoric to modern times with emphasis on contemporary life and French institutions. This course is conducted in French, and full language credit is given.

Pre-req: FRN 204.

Attributes: International

Grade Mode: Normal Grading Mode

FRN 407 Foreign Lang Tchg Meth**3 Credit hours**

Analysis and practical application of methods of teaching foreign language, including professional development, language pedagogy, and language standards. To be taken concurrently with CI 470.

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.

Co-req: CI 470

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 418 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.

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.

Pre-req: FRN 317 and FRN 318.

Grade Mode: Normal Grading Mode

FRN 428 Dev Frn Poetry-Theater II**3 Credit hours**

A study of literary works illustrating the development of poetry and theater in France during the 19th and 20th Centuries.

Pre-req: FRN 204.

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.

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.

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 482 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.

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 483 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.

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.

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.

Grade Mode: Normal Grading Mode

GEO 111 Air Photos & Satellite Imagery 1 Credit hour

Introduction to photogrammetry and remote sensing through the hands-on investigation of aerial photographs and satellite imagery using the latest technology.

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.

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.

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.

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 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.

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.

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.

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.

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 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.

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.

Grade Mode: Normal Grading Mode**GEO 429 Princ of GIS 2-Vector Analysis****4 Credit hours**

Continuation of GEO 426 Principles of GIS, including additional principles like data management, cartographic design, and geocoding; and vector analyses like spatial analysis, spatial autocorrelation, and network analysis.

Pre-req: GEO 426 or GEO 430 or IST 423.**Grade Mode:** Normal Grading Mode**GEO 430 GIS-Raster Analysis****4 Credit hours**

GIS raster analysis, including local, neighborhood, and zonal operations, terrain analysis, building raster databases, distance modeling, and surface interpolation. Data collection and input from readily available sources, creation of custom data using GPS and advanced spatial analysis using GIS. (PR: GEO 429)

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 or GEO 429 or GEO 430 or IST 423.**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 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 and (MTH 225 or GEO 440 or MGT 218 or PSY 223 or SOC 345 or ANT 301 or EDF 417).

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.

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**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.

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.

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.

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.

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.

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.

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.

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.

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.

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.

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.

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.

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.

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.

Grade Mode: Normal Grading Mode

HST 281 Special Topics**1-4 Credit hours**

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.

Grade Mode: Normal Grading Mode

HST 283 Special Topics**1-4 Credit hours**

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.

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.

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.

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 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.

Attributes: American Institutions, Multicultural, 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)

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.

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.

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.

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.

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.

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.

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 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 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 food-ways 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.

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 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.

Attributes: European History**Grade Mode:** Normal Grading Mode**HST 407 History of Sexuality****3 Credit hours**

Examines the history of sexuality in North America in the context of cultural, legal, economic, political and social history from the 16th century to the 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.

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.

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.

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.

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.

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.

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.

Attributes: American Institutions, United States History**Grade Mode:** Normal Grading Mode**HST 425 European Hist 1814-1914****3 Credit hours**

A century of European political, 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.

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.

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 foreign 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.

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.

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.

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.

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.

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.

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.

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.

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.

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 450 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 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 constitutionalism, 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.

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.

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.

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.

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.

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.

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.

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.

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.

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.

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)

Attributes: American Institutions

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.

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.

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.

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.

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.

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.

Attributes: American Institutions

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.

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.

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.

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.

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 Britain 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.

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.

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.

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 economic 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.

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.

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.

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.

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.

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 political 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.

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.

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.

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 perspectives 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.

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.

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.

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.

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.

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.

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.

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.

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.

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.

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.

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.

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.

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.

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.

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 philosophy to contemporary political questions. Capstone experience 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.

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.
Grade Mode: Normal Grading Mode
- SOC 281 Special Topics** 1-4 Credit hours
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.
Grade Mode: Normal Grading Mode
- SOC 283 Special Topics** 1-4 Credit hours
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.
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.
Attributes: American Institutions
Grade Mode: Normal Grading Mode
- SOC 344 Social Research I** 3 Credit hours
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
Introduction to statistical analysis of social data.
Pre-req: SOC 200 or SOC 200H.
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.
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.
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 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 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 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 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. Attributes: American Institutions 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 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 480 Special Topics 1-4 Credit hours Study of topics of interest not covered in regularly scheduled courses. Grade Mode: Normal Grading Mode
SOC 442 Urban Sociology 3 Credit hours The sociology of urban and metropolitan communities. Attributes: American Institutions Grade Mode: Normal Grading Mode	SOC 481 Special Topics 1-4 Credit hours Study of topics of interest not covered in regularly scheduled courses. 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 482 Special Topics 1-4 Credit hours Study of topics of interest not covered in regularly scheduled courses. Grade Mode: Normal Grading Mode
SOC 450 Sociology of Religion 3 Credit hours Sociological analysis of religion as a social institution. Attributes: American Institutions Grade Mode: Normal Grading Mode	SOC 483 Special Topics 1-4 Credit hours Study of topics of interest not covered in regularly scheduled courses. 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 individual and society. Pre-req: SOC 200. 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. 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. Pre-req: SOC 200 or SOC 200H. 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. 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 487 Independent Study 1-4 Credit hours Individual study of topics not offered in regularly scheduled courses. Advance permission required. 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. 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. 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. 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: Anthropology 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.

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****Kristin J. Steele**

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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**Dr. David J. Trowbridge**

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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
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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
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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	

Digital Humanities, Minor

Dr. Kristen Lillvis

lillvis@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 417/418	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	History of Sexuality (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	History of Sexuality	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 Morrisette, Program Director

Website: <http://www.marshall.edu/polsci/academic-programs/international-affairs/>

Overview text

Programs

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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)

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.

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.

Pre-req: ECN 250 or ECN 200.

Grade Mode: Normal Grading Mode

ECN 280 Special Topics **1-4 Credit hours**

Grade Mode: Normal Grading Mode

ECN 281 Special Topics **1-4 Credit hours**

Grade Mode: Normal Grading Mode

- ECN 282 Special Topics** **1-4 Credit hours**
Grade Mode: Normal Grading Mode
- ECN 283 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 253 or ECN 241) and (ECN 250 or ECN 242 or ECN 200).
Attributes: American Institutions
Grade Mode: Normal Grading Mode
- ECN 326 Int Macroeconomic Analysis** **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.
Pre-req: (ECN 200 or ECN 250) and ECN 253.
Attributes: American Institutions
Grade Mode: Normal Grading Mode
- ECN 328 Int Microeconomic Analysis** **3 Credit hours**
 Micro-economic theories of the production and pricing of goods and services, payments to the factors of production.
Pre-req: (ECN 200 or ECN 250) and ECN 253.
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.
Grade Mode: Normal Grading Mode
- ECN 408 Comparative Economic Systems** **3 Credit hours**
 Marxism, capitalism, communism, fascism and socialism considered as theories, movements and actual political economies.
Pre-req: (ECN 200 or ECN 250 or ECN 242) and ECN 253.
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.
Pre-req: (ECN 250 or ECN 242 or ECN 200) and (ECN 253 or ECN 241).
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.
Pre-req: (ECN 253 or ECN 241) and (ECN 250 or ECN 242 or ECN 200).
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.
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 or MGT 218E or MGT 318 or MTH 225 or STA 225 or IST 130 or EDF 417 or PSY 223 or SOC 345) and (ECN 253 or ECN 241).
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 200 or ECN 250 or ECN 242).
Attributes: American Institutions, Social Sciences
Grade Mode: Normal Grading Mode
- ECN 460 Economic of Developing 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 200 or ECN 250 or ECN 242) and (ECN 253 or ECN 241).
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.
Pre-req: ECN 326 and ECN 328 and ECN 423.
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. (Prerequisite: ECN 466) (Prerequisite: 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.
Pre-req: (ECN 200 or ECN 250 or ECN 242) and (ECN 253 or ECN 241).
Grade Mode: Normal Grading Mode

ECN 481 Special Topics**1-4 Credit hours**

Members of the department may teach, when necessary, any economics subject not listed among the current course offerings.
Pre-req: (ECN 250 or ECN 242 or ECN 200) and (ECN 253 or ECN 241).
Grade Mode: Normal Grading Mode

ECN 482 Special Topics**1-4 Credit hours**

Members of the department may teach, when necessary, any economics subject not listed among the current course offerings.
Pre-req: (ECN 250 or ECN 242 or ECN 200) and (ECN 253 or ECN 241).
Grade Mode: Normal Grading Mode

ECN 483 Special Topics**1-4 Credit hours**

Members of the department may teach, when necessary, any economics subject not listed among the current course offerings.
Pre-req: (ECN 250 or ECN 242 or ECN 200) and (ECN 253 or ECN 241).
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.
Grade Mode: Normal Grading Mode

ECN 486 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.
Grade Mode: Normal Grading Mode

ECN 487 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.
Grade Mode: Normal Grading Mode

ECN 488 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.
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 advance and the student's 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.
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.
Grade Mode: Normal Grading Mode

GEO 111 Air Photos & Satellite Imagery**1 Credit hour**

Introduction to photogrammetry and remote sensing through the hands-on investigation of aerial photographs and satellite imagery using the latest technology.
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.
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.
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.
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 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.
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.

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.

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.

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 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.

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.

Grade Mode: Normal Grading Mode

GEO 429 Princ of GIS 2-Vector Analysis	4 Credit hours	GEO 482 Special Topics	1-4 Credit hours
Continuation of GEO 426 Principles of GIS, including additional principles like data management, cartographic design, and geocoding; and vector analyses like spatial analysis, spatial autocorrelation, and network analysis.		Grade Mode: Normal Grading Mode	
Pre-req: GEO 426 or GEO 430 or IST 423.		GEO 483 Special Topics	1-4 Credit hours
Grade Mode: Normal Grading Mode		Grade Mode: Normal Grading Mode	
GEO 430 GIS-Raster Analysis	4 Credit hours	GEO 485 Independent Study	1-4 Credit hours
GIS raster analysis, including local, neighborhood, and zonal operations, terrain analysis, building raster databases, distance modeling, and surface interpolation. Data collection and input from readily available sources, creation of custom data using GPS and advanced spatial analysis using GIS. (PR: GEO 429)		Attributes: No Textbook Required	
Pre-req: GEO 426 or GEO 429 or IST 423.		Grade Mode: Normal Grading Mode	
Grade Mode: Normal Grading Mode		GEO 486 Independent Study	1-4 Credit hours
GEO 431 Remote Sensing & Photogram	4 Credit hours	Attributes: No Textbook Required	
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.		Grade Mode: Normal Grading Mode	
Pre-req: GEO 426 or GEO 429 or GEO 430 or IST 423.		GEO 487 Independent Study	1-4 Credit hours
Grade Mode: Normal Grading Mode		Grade Mode: Normal Grading Mode	
GEO 432 Enterprise GIS	3 Credit hours	GEO 488 Independent Study	1-4 Credit hours
Principles and techniques for planning, implementing, and managing Geographic Information Systems technologies in a firm or agency.		Grade Mode: Normal Grading Mode	
Pre-req: GEO 426 or GEO 429 or GEO 430 or GEO 431 or IST 423.		GEO 490 Internship	1-6 Credit hours
Grade Mode: Normal Grading Mode		Cooperative learning experience with regional employer/government agency.	
GEO 433 GPS & Mobile Geospatial Tech	3 Credit hours	Attributes: No Textbook Required	
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.		Grade Mode: Credit/No Credit Grade Only	
Pre-req: GEO 426 or GEO 429 or GEO 430 or GEO 431 or IST 423.		GEO 498 🌿 Senior Capstone	2 Credit hours
Grade Mode: Normal Grading Mode		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.	
GEO 434 Floods Hazards and GIS	3 Credit hours	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).	
Application of principles of flood hazards preparation, disaster management, and mitigation using Geographic Information Systems (GIS).		Attributes: Capstone Course	
Grade Mode: Normal Grading Mode		Grade Mode: Normal Grading Mode	
GEO 440 Spatial Statistics and GIS	4 Credit hours	GEO 499 🌿 Senior Capstone II	1-3 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.		This senior capstone course combines research methods, data collection, and analysis to produce original research on questions and problems in geography. Part II.	
Grade Mode: Normal Grading Mode		Pre-req: GEO 426 and (MTH 225 or GEO 440 or MGT 218 or PSY 223 or SOC 345 or ANT 301 or EDF 417).	
GEO 454 Drones: Remote Sensing & GIS	3 Credit hours	Attributes: American Institutions, Capstone Course	
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	
Grade Mode: Normal Grading Mode		History	
GEO 460 Weather Analysis	4 Credit hours	HST 101 🌿 Great Civs to 1300 (CT)	3 Credit hours
Introduction to reading weather maps and meteorological analysis techniques including satellite and radar image interpretation and numerical weather prediction.		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.	
Grade Mode: Normal Grading Mode		Attributes: Critical Thinking, Multicultural, Core II Social Sciences	
GEO 480 Special Topics	1-4 Credit hours	Grade Mode: Normal Grading Mode	
Grade Mode: Normal Grading Mode		HST 101H 🌿 Great Civs to 1300 (CT)	3 Credit hours
GEO 481 Special Topics	1-4 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.	
Grade Mode: Normal Grading Mode		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

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.

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.

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.

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.

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.

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.

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.

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.

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.

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.

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.

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.

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.

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.

Grade Mode: Normal Grading Mode

HST 281 Special Topics**1-4 Credit hours**

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.

Grade Mode: Normal Grading Mode

HST 283 Special Topics**1-4 Credit hours**

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.

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.

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.

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 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.

Attributes: American Institutions, Multicultural, 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)

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.

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.

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.

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.

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.

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.

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 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 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 food-ways 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.

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 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.

Attributes: European History**Grade Mode:** Normal Grading Mode**HST 407 History of Sexuality****3 Credit hours**

Examines the history of sexuality in North America in the context of cultural, legal, economic, political and social history from the 16th century to the 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.

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.

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.

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 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.

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.

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 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.

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.

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.

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 foreign 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.

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.

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.

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.

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.

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.

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.

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.

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.

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 450 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 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 and PSC 406.

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 constitutionalism, 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.

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.

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.

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.

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.

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.

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.

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.

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.

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.

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)

Attributes: American Institutions

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.

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.

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.

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.

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.

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.

Attributes: American Institutions

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.

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.

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.

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.

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 Britain 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.

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.

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.

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 economic 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.

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.

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.

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.

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.

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 political 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.

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.

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.

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 perspectives 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.

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.

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.

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.

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.

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.

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.

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.

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.

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.

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.

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.

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.

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.

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.

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 philosophy to contemporary political questions. Capstone experience 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: Critical 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 & FRN 306	Intro to FRN Comp & Conv and 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
<i>Anthropology</i>		
ANT 201 🌱	Cultural Anthropology (CT)	
<i>Economics</i>		
ECN 408 🌱	Comparative Econ Systems	
ECN 420 🌱	International Trade	
ECN 421 🌱	Global Macroeconomic Analysis	
ECN 460 🌱	Economic of Dev Countries	
<i>Communication Studies</i>		
CMM 322 🌱	Intercultural Communication	
<i>Geography</i>		
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	
<i>History</i>		
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
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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
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College of Science

Contacts: Dr. Charles Somerville, Dean; Mr. Brian M. Morgan, Associate 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 from molecular to population scales, and all of the myriad interactions between living and non-living parts of our world. The School includes the Department of Biological Sciences and the Department of Natural Resources and the Environment. These departments offer courses in cell, molecular and medical biology, ecology and evolutionary biology, biotechnology, environmental science, and natural resources and recreation management, among others. Students in SBES are actively engaged in research with faculty mentors, and they frequently publish their work, and make presentations at national meetings. Programs in SBES have been designed to prepare students for careers in the life sciences, or to continue their education in graduate school, or through professional degrees in a variety of health care disciplines. 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. Dhruva Bora, Director

The School of Forensic and Criminal Justice Sciences (SFCJS) includes the Department of Criminal Justice and Criminology and the Department of Forensic Sciences. 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, Applied 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. 531)
- Department of Biological Sciences (p. 531)
- Department of Chemistry (p. 547)
- Department of Computer and Information Technology (p. 559)
- Department of Criminal Justice and Criminology (p. 568)
- Department of Cyber Forensics and Security (p. 574)
- Department of Geology (p. 577)
- Department of Mathematics (p. 587)
- Department of Natural Resources and the Environment (p. 601)
- Department of Physics (p. 614)
- Preparation for Professional Careers in the Health Care Professions (p. 626)
- Sustainability, Interdisciplinary Minor (p. 643)

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 major¹ and completing the following requirements:

1. Completion of		
Code	Title	Credit Hours
ENG 101 🌿	Beginning Composition	3
ENG 200H 🌿	Texting the World (CT)	3
ENG 201H 🌿	English Comp Honors	3
Total Credit Hours		9

with a grade of C or higher.

2. Completion of one of the following:

Code	Title	Credit Hours
Select one of the following:		
MTH 127 🌿	College Algebra-Expanded	3-5
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:		
MTH 127 🌿	College Algebra-Expanded	3-5
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		
<i>Natural and Physical Sciences</i>		
	Courses to be distributed in at least two fields.	11
<i>Mathematics - Calculus</i>		
	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

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.

Department of Biological Sciences

Contacts: Dr. Brian Antonsen, 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. 535)
- Biological Sciences, B.S. (p. 535)
- Biological Sciences, Minor (p. 546)

Courses

 - General Education Course

BSC 104 Introduction to Biology 4 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. 3 lec-2 lab.

Attributes: Natural Sciences, Core II Natural Sciences

Grade Mode: Normal Grading Mode

BSC 105 Human Biology 4 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. 3 lec-2 lab.

Attributes: Natural Sciences, Core II Natural Sciences

Grade Mode: Normal Grading Mode

BSC 120 Principles of Biology 4 Credit hours

Study of basic biological principles common to all organisms through lecture and laboratory activities. Intended for science majors and pre-professional students. 3 lec-2 lab.

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 (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 130 with a minimum grade of C or MTH 132 with a minimum grade of C).

Attributes: Natural Sciences, Core II Natural Sciences

Grade Mode: Normal Grading Mode

BSC 120H Principles of Biology Honors 4 Credit hours

Study of basic biological principles common to all organisms through lecture and laboratory activities. Chemistry of life, cell biology, metabolism, heredity, and evolution. Intended for science majors and pre-professional students. 3 lec-2-lab.

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 MTH 121 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).

Attributes: Honors, Natural Sciences, Core II Natural Sciences

Grade Mode: Normal Grading Mode

BSC 121 Principles of Biology 4 Credit hours

A continuation of the study of basic biological principles common to all organisms. Intended for science majors and pre-professional students. 3 lec-2 lab.

Pre-req: BSC 120 with a minimum grade of C.

Attributes: Natural Sciences, Core II Natural Sciences

Grade Mode: Normal Grading Mode

BSC 227 Human Anatomy**4 Credit hours**

Principles 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. 3 lec-2 lab (ACT composite 19 or higher or 12 hrs. college credit, 100 level or above with minimum GPA of 2.3)

Pre-req: ACT Composite with a score of 19 or ACT Recalculated Composite with a score of 19 or SAT Mathematics Before Mar. 16 with a score of 480 or SAT MATH SECTION SCORE with a score of 510.

Attributes: Natural Sciences

Grade Mode: Normal Grading Mode

BSC 228 🌿 Human Physiology**4 Credit hours**

Fundamentals 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 Science. 3 lec-3 lab (PR: BSC 227 with grade C or better)

Pre-req: BSC 227 with a minimum grade of C.

Attributes: Natural Sciences, Core II Natural Sciences

Grade Mode: Normal Grading Mode

BSC 250 🌿 Microbiol & Human Disease**4 Credit hours**

Introduction to microbiology with emphasis on the role of microorganisms in the disease process.

Pre-req: BSC 227 with a minimum grade of C.

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.

Pre-req: BSC 121 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. (PR: BSC 121 with grade of C or better) 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.

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.

Attributes: Natural Sciences

Grade Mode: Normal Grading Mode

BSC 310 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 121 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.

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.

Pre-req: BSC 121 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.

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-4 lab.

Pre-req: BSC 121 with a minimum grade of C.

Attributes: Natural Sciences

Grade Mode: Normal Grading Mode

BSC 365 Introductory Biochemistry**3 Credit hours**

A survey course including introduction to basic biochemical concepts, metabolic pathways, and bioenergetics. Pre: CHM327 or 356.

Pre-req: BSC 121 with a minimum grade of C and CHM 356 with a minimum grade of C or CHM 327 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 121 with a minimum grade of C.

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.

Pre-req: BSC 302 or BSC 320 or BSC 322 or BSC 324.

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 121 with a minimum grade of C.

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. 2 lec-2 lab and field.

Pre-req: BSC 121 with a minimum grade of C or BSC 105 with a minimum grade of B.

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.

Pre-req: (BSC 302 or BSC 320 or BSC 322 or BSC 324) and PHY 203 and PHY 204 and (MTH 225 or STA 225).

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.

Pre-req: (BSC 410 or PS 410 or IST 420).

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.

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.

Pre-req: BSC 302 or BSC 320 or BSC 322 or BSC 324.

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: Permission (consistent with MTH 518 description)

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.

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.

Pre-req: BSC 121 with a minimum grade of C and CHM 212 with a minimum grade of C.

Attributes: Natural Sciences

Grade Mode: Normal Grading Mode

BSC 421 Phycology**4 Credit hours**

Morphology, taxonomy, and techniques used in the study of freshwater algae with emphasis upon applications of ecological principles to current water quality problems. 2 lec-4 lab.

Pre-req: BSC 121 with a minimum grade of C or BSC 105 with a minimum grade of B.

Attributes: Natural Sciences

Grade Mode: Normal Grading Mode

BSC 422 Animal Physiology**4 Credit hours**

Physiological principles operating in cells, organs, and systems of animals, with a focus on vertebrate, including human, function. 3 lec-3 lab (PR: BSC 322, CHM 355, MTH 140 or 132 or 229; or permission)

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 424 Animal Parasitology**4 Credit hours**

Morphology, life histories, classification, and host relationships of common parasites. 2 lec-4 lab.

Pre-req: BSC 121 with a minimum grade of C.

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).

Pre-req: BSC 121 with a minimum grade of C.

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 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.

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 120 and (BSC 322 with a minimum grade of C or BSC 422 with a minimum grade of C or CHM 355 with a minimum grade of C).

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.

Pre-req: BSC 121 with a minimum grade of C and BSC 320 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.

Pre-req: BSC 320.

Attributes: Natural Sciences

Grade Mode: Normal Grading Mode

BSC 438 Emerging Infect 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 or BSC 320 or BSC 322 or BSC 324.

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.

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.

Pre-req: BSC 302 with a minimum grade of C.

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

Pre-req: BSC 322 with a minimum grade of D or BSC 324 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 322.

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 *Drosophila* will illustrate current information.

Pre-req: BSC 320 or BSC 322 or BSC 324.

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.

Attributes: Natural Sciences

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**

An independent study involving a research project or intern-ship. Must be approved by Biological Science Faculty.

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, LoCascio, Mays, Mosher, Schultz, Spitzer, Waldron

Assistant Professors

Chirchir, H. Cyphert, Palmquist, Puppo, Shakirov, Welch

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 choose 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		
<i>Core 1: Critical Thinking</i>		
FYS 100	First Yr Sem Critical Thinking	3
PSY 201 	Introductory Psychology (CT)	3
	Critical Thinking Course	3
<i>Core 2</i>		
ENG 101  	Beginning Composition	3
ENG 201  	Advanced Composition	3
CMM 103  	Fund Speech-Communication	3
MTH 140 	Applied Calculus	3
BSC 120  	Principles of Biology ¹	4
	Core II Humanities	3
	Core II Social Science	3
	Core II Fine Arts	3
<i>Additional University Requirements</i>		
	Writing Intensive	3
	Writing Intensive	3
	Multicultural or International	3
BSC 491 	Capstone Experience ²	2
Major-Specific		
BSC 121  	Principles of Biology ¹	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
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
Select three of the following:		9-12
BSC 302	Principles of Microbiology	
BSC 320	Principles of Ecology	
BSC 322	Principles Cell Biology	
BSC 324	Principles of Genetics	
BSC 491 	Capstone Experience (C) ²	2
BSC Elective		4
BSC Elective		4
BSC Elective		4
BSC Elective		4
BSC Elective		3
BSC Elective		3
BSC Elective		3
Free Elective (MTH 122 recommended for PHY pre-req)		3
Free Elective		3
Free Elective		1


- 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 and earn a grade of C or better in BSC 121 Principles of Biology, 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.
- 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 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.
- Calculus I requires 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.
- All Biological Science majors are required to complete a minimum of 40 hours of credits in the Department of Biological Sciences.

Areas of Emphasis

- Cell, Molecular and Medical Biology, Emphasis (p. 537)
- Ecology and Evolutionary Biology, Emphasis (p. 539)
- Microbiology, Emphasis (p. 541)
- Natural History and Conservation, Emphasis (p. 543)
- Plant Biology, Emphasis (p. 545)











 - General Education Course

 - 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	4
ENG 101 	Beginning Composition	3
UNI 100	Freshman First Class	1
MTH 140 	Applied Calculus	3
Core I Critical Thinking		3
Credit Hours		14
Second Semester		
BSC 121 	Principles of Biology	4
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 pre-req)		3
Credit Hours		16
Second Year		
First Semester		
Select one of the following four courses:		3-4
BSC 302	Principles of Microbiology	
BSC 320	Principles of Ecology	
BSC 322	Principles Cell Biology	
BSC 324	Principles of Genetics	
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
Select one of the following four courses:		3-4
BSC 302	Principles of Microbiology	
BSC 320	Principles of Ecology	
BSC 324	Principles of Genetics	
Core I Critical Thinking		3
BSC Elective		4
Credit Hours		15-16
Third Year		
First Semester		
CHM 355	Organic Chemistry I	3
BSC Elective		3
BSC Elective		4

BSC Elective	4
Credit Hours	14
Second Semester	
Select one of the following four courses:	3-4
BSC 302 Principles of Microbiology	
BSC 320 Principles of Ecology	
BSC 322 Principles Cell Biology	
BSC 324 Principles of Genetics	
CHM 356 Organic Chemistry II	3
CHM 361 Intro Organic Chm Lab	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
Free Elective	3
Free Elective	3
Credit Hours	16
Second Semester	
BSC 491 Capstone Experience (C)	2
Writing Intensive	3
BSC Elective	3
PHY 203 College Physics II	3
PHY 204 General Physics 2 Laboratory	1
Free Elective	3
Credit Hours	15
Total Credit Hours	120-123

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		
<i>Core 1: Critical Thinking</i>		
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 ¹	4
MTH 140	Applied Calculus	3
Core II Humanities		
Core II Social Science		
Core II Fine Arts		
<i>Additional University Requirements</i>		
Writing Intensive		
Writing Intensive		
Multicultural or International		
BSC 491	Capstone Experience ²	2
Major-Specific		
BSC 121	Principles of Biology ¹	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
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
BSC 491	Capstone Experience (C) ²	2
Area of Emphasis-Specific		
BSC 324	Principles of Genetics	4
BSC 302	Principles of Microbiology	3
BSC 322	Principles Cell Biology	4
CHM 365	Introductory Biochemistry	3
BSC 310	Comp Vertebrate Anatomy	4
BSC 450	Molecular Biology	3
BSC 420	Plant Physiology	4
or BSC 422	Animal Physiology	
AoE Elective		
Select three of the following:		
BSC 301	Vertebrate Embryology	
BSC 304	Microbiology Lab	
BSC 413	Prin of Organic Evolution	
BSC 417	Biostatistics	
BSC 424	Animal Parasitology	
BSC 426	Medical Entomology	
BSC 428	Neuroscience	
BSC 438	Emerging Infect Diseases	
BSC 448	Introductory Immunology	
BSC 454	Princ Adv Techn Mol Biol	
BSC 456	Genes and Development	
Free Elective		3


Free Elective	3
Free Elective	3
Free Elective	2

- 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 and earn a grade of C or better in BSC 121 Principles of Biology, 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.
- Calculus I requires ACT Mathematics score of 27 or higher. Students with an ACT Mathematics score less than 27 will be placed in the appropriate 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	4
CHM 211 	Principles of Chemistry I	3
CHM 217 	Principles of Chem Lab I	2
ENG 101 	Beginning Composition	3
MTH 140 	Applied Calculus	3
UNI 100	Freshman First Class	1
Credit Hours		16
Second Semester		
BSC 121 	Principles of Biology	4
CHM 212 	Principles Chemistry II	3
CHM 218 	Principles of Chem Lab II	2
FYS 100	First Yr Sem Critical Thinking	3
Core II Fine Arts		3
Credit Hours		15
Second Year		
First Semester		
BSC 324 	Principles of Genetics	4
CHM 355	Organic Chemistry I	3
ENG 201 	Advanced Composition	3
PSY 201 	Introductory Psychology (CT) (Core II	3
or SOC 200 	Social Science) or Introductory Sociology (CT)	
Free Elective		3
Credit Hours		16
Second Semester		
BSC 302 	Principles of Microbiology	3
CHM 356	Organic Chemistry II	3
CHM 361	Intro Organic Chm Lab	3
Free Elective (MTH 122 rec for PHY PR)		3
Core I Critical Thinking		3
Credit Hours		15
Third Year		
First Semester		
BSC 322	Principles Cell Biology	4
CHM 365	Introductory Biochemistry	3
PHY 201 	College Physics I	3
PHY 202 	General Physics I Laboratory	1
CMM 103 	Fund Speech-Communication	3
Credit Hours		14
Second Semester		
BSC 310 	Comp Vertebrate Anatomy	4
PHY 203 	College Physics II	3
PHY 204 	General Physics 2 Laboratory	1
Core II Humanities		3

AoE Elective	3
Credit Hours	14
Fourth Year	
First Semester	
BSC 450 Molecular Biology	3
Free Elective	3
Multicultural or International	3
Writing Intensive	3
BSC 420 Plant Physiology or BSC 422 or Animal Physiology	4
Credit Hours	16
Second Semester	
BSC 491 Capstone Experience (C)	2
Writing Intensive	3
AoE Elective	3
AoE Elective	3
Free Elective	3
Credit Hours	14
Total Credit Hours	120

¹ PSY 201 Introductory Psychology (CT) or SOC 200 Introductory Sociology (CT)

Ecology and Evolutionary 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		
<i>Core 1: Critical Thinking</i>		
FYS 100	First Yr Sem Critical Thinking	3
	Critical Thinking Course	3
	Critical Thinking Course	3
<i>Core 2</i>		
ENG 101	Beginning Composition	3
ENG 201	Advanced Composition	3
CMM 103	Fund Speech-Communication	3
MTH 140	Applied Calculus	3
BSC 120	Principles of Biology ¹	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 ²	2
Major-Specific	
BSC 121 Principles of Biology ¹	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
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
BSC 491 Capstone Experience (C) ²	2
Area of Emphasis-Specific	
BSC 320 Principles of Ecology	4
BSC 413 Prin of Organic Evolution	3
Select two of the following:	6-8
BSC 302	Principles of Microbiology
BSC 324	Principles of Genetics
BSC 322	Principles Cell Biology
BSC 417	Biostatistics
BSC 425	Systematics
Select four of the following:	12
BSC 302	Principles of Microbiology
BSC 304	Microbiology Lab
BSC 310	Comp Vertebrate Anatomy
BSC 312	Invertebrate Zoology
BSC 406	Herpetology
BSC 408	Ornithology
BSC 410	Remote Sensing/GIS Appl
BSC 411	Dgtl Image Proc/GIS Model
BSC 416	Plant Taxonomy
BSC 422	Animal Physiology
BSC 424	Animal Parasitology
BSC 430	Plant Ecology
BSC 456	Genes and Development
BSC 460	Conservation Biology
CHM 365	Introductory Biochemistry
Free Elective (MTH 122 rec for PHY pre-req)	3
Free Elective	3
Free Elective	3
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 and earn a grade of C or better in BSC 121 Principles of Biology, 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 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 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	4









MTH 140 	Applied Calculus	3
ENG 101 	Beginning Composition	3
Free Elective		3
UNI 100	Freshman First Class	1
Credit Hours		14

Second Semester





BSC 121  	Principles of Biology	4
FYS 100	First Yr Sem Critical Thinking	3
Fine Arts Elective		3
CMM 103 	Fund Speech-Communication	3
Free Elective (MTH 122 rec for PHY PR)		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
PSY 201 	Introductory Psychology (CT) (Core II	3
or SOC 200  Social Science)		
or Introductory Sociology (CT)		
Credit Hours		15

Second Semester


CHM 212  	Principles Chemistry II	3
CHM 218  	Principles of Chem Lab II	2
Select one of the following:		3-4
BSC 302	Principles of Microbiology	
BSC 322	Principles Cell Biology	
BSC 324	Principles of Genetics	
AoE Elective		3
Core I Critical Thinking		3
Credit Hours		14-15

Third Year

First Semester

BSC 413 	Prin of Organic Evolution	3
CHM 355 	Organic Chemistry I	3
Select one of the following:		3-4
BSC 302	Principles of Microbiology	
BSC 322	Principles Cell Biology	
BSC 324	Principles of Genetics	
Free Elective		3
Free Elective		3
Credit Hours		15-16

Second Semester

CHM 356 	Organic Chemistry II	3
CHM 361	Intro Organic Chm Lab	3
Core II Humanities		3
AoE Elective		3
Free Elective		3
Credit Hours		15

Fourth Year**First Semester**

BSC 417	Biostatistics	3
PHY 201	College Physics I	3
PHY 202	General Physics I Laboratory	1
Multicultural or International		3
Writing Intensive		3
AoE Elective		3
Credit Hours		16

Second Semester

BSC 491	Capstone Experience (C)	2
Writing Intensive		3
AoE Elective		3
BSC 425	Systematics	3
PHY 203	College Physics II	3
PHY 204	General Physics 2 Laboratory	1
Credit Hours		15
Total Credit Hours		120-122

Microbiology, 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		
<i>Core 1: Critical Thinking</i>		
FYS 100	First Yr Sem Critical Thinking	3
Critical Thinking Course		3
Critical Thinking Course		3
<i>Core 2</i>		
ENG 101	Beginning Composition	3
ENG 201	Advanced Composition	3
CMM 103	Fund Speech-Communication	3
MTH 140	Applied Calculus	3
BSC 120	Principles of Biology ¹	4
Core II Humanities		3
Core II Social Science		3
Core II Fine Arts		3
<i>Additional University Requirements</i>		
Writing Intensive		3
Writing Intensive		3
Multicultural or International		3
BSC 491	Capstone Experience ²	2

Major-Specific

BSC 121	Principles of Biology ¹	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
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
BSC 491	Capstone Experience (C) ²	2

Area of Emphasis-Specific

BSC 324	Principles of Genetics	4
BSC 302	Principles of Microbiology	3
BSC 304	Microbiology Lab	2
BSC 443	Microbial Genetics	3
BSC 320	Principles of Ecology	4
or BSC 322	Principles Cell Biology	
CHM 365	Introductory Biochemistry	3
Advisor Approved Course		4

AoE Elective

Select three of the following:		10
BSC 417	Biostatistics	
BSC 424	Animal Parasitology	
BSC 438	Emerging Infect Diseases	
BSC 448	Introductory Immunology	
CHM 467	Intermediate Biochemistry	
Free Elective		3
Free Elective		3
Free Elective		3
Free Elective		2


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 and earn a grade of C or better in BSC 121 Principles of Biology, 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 semester's 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 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 Microbiology will be prepared for a wide range of careers including environmental, pharmaceutical, and industrial microbiology. Students will also be prepared to continue specialization at the graduate level in medical, food and dairy, and industrial microbiology, as well as soil and sanitary bacteriology.

Course	Title	Credit Hours
First Year		
First Semester		
BSC 120  	Principles of Biology	4
MTH 140 	Applied Calculus	3
ENG 101 	Beginning Composition	3
Free Elective		3
UNI 100	Freshman First Class	1
Credit Hours		14
Second Semester		
BSC 121  	Principles of Biology	4
FYS 100	First Yr Sem Critical Thinking	3
Core II Fine Arts		3
CMM 103 	Fund Speech-Communication	3

Free Elective (MTH 122 rec for PHY PR)	3
Credit Hours	16





Second Year

First Semester

BSC 302	Principles of Microbiology	3
BSC 304	Microbiology Lab	2
CHM 211  	Principles of Chemistry I	3
CHM 217  	Principles of Chem Lab I	2
ENG 201 	Advanced Composition	3
PSY 201  or SOC 200 	Introductory Psychology (CT) (Core II Social Science) or Introductory Sociology (CT)	3

Credit Hours	16
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Second Semester

CHM 212  	Principles Chemistry II	3
CHM 218 	Principles of Chem Lab II	2
BSC 324 	Principles of Genetics	4
Core I Critical Thinking		3
Free Elective		3

Credit Hours	15
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Third Year

First Semester

BSC 443	Microbial Genetics	3
CHM 355 	Organic Chemistry I	3
AoE Elective		4
Multicultural or International (CT)		3
Free Elective		2

Credit Hours	15
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Second Semester

CHM 356	Organic Chemistry II	3
CHM 361	Intro Organic Chm Lab	3
Core II Humanities		3
BSC 320 or BSC 322	Principles of Ecology or Principles Cell Biology	4
Free Elective		2

Credit Hours	15
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Fourth Year


First Semester

CHM 365	Introductory Biochemistry	3
Advisor Approved Course		4
PHY 201 	College Physics I	3
PHY 202 	General Physics I Laboratory	1
Writing Intensive		3

Credit Hours	14
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Second Semester

BSC 491 	Capstone Experience (C)	2
Writing Intensive		3
AoE Elective		3
AoE Elective		3
PHY 203 	College Physics II	3

PHY 204 	General Physics 2 Laboratory	1
Credit Hours		15
Total Credit Hours		120

























Natural History and Conservation, 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		
<i>Core 1: Critical Thinking</i>		
FYS 100	First Yr Sem Critical Thinking	3
Critical Thinking Course		3
Critical Thinking Course		
<i>Core 2</i>		
ENG 101 	Beginning Composition	3
ENG 201  	Advanced Composition	3
CMM 103 	Fund Speech-Communication	3
BSC 120  	Principles of Biology ¹	4
MTH 140 	Applied Calculus	3
Core II Humanities		3
Core II Social Science		3
Core II Fine Arts		3
<i>Additional University Requirements</i>		
Writing Intensive		3
Writing Intensive		3
Multicultural or International		3
BSC 491 	Capstone Experience ²	2
Major-Specific		
BSC 121  	Principles of Biology ¹	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
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
BSC 491 	Capstone Experience (C) ²	2

Area of Emphasis-Specific		
BSC 320	Principles of Ecology	4
Select two of the following:		6-8
BSC 302	Principles of Microbiology	
BSC 324	Principles of Genetics	
BSC 322	Principles Cell Biology	
BSC 413	Prin of Organic Evolution	3
BSC 417 	Biostatistics	3
BSC 460	Conservation Biology	3
CHM 365	Introductory Biochemistry	3
BSC 425	Systematics	3
<i>AoE Elective</i>		
Select three of the following:		9
BSC 302	Principles of Microbiology	
BSC 304	Microbiology Lab	
BSC 310	Comp Vertebrate Anatomy	
BSC 312	Invertebrate Zoology	
BSC 406	Herpetology	
BSC 408	Ornithology	
BSC 410	Remote Sensing/GIS Appl	
BSC 411	Dgtl Image Proc/GIS Model	
BSC 416	Plant Taxonomy	
BSC 422	Animal Physiology	
BSC 424	Animal Parasitology	
BSC 430	Plant Ecology	
BSC 456	Genes and Development	
CHM 365	Introductory Biochemistry	
Free Elective (MTH 122 recommended for PHY Pre-req)		3
Free Elective		3
Free Elective		3
Free Elective		3
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 and earn a grade of C or better in BSC 121 Principles of Biology, 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.
- Calculus I requires ACT Mathematics score of 27 or higher. Students with an ACT Mathematics score less than 27 will be placed in the appropriate 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 Natural History and Conservation will be prepared for a wide range of careers including positions with state or federal government agencies (USFS,USFWS, USACE, DNR, EPA); environmental consulting firms; conservation agencies; non-governmental organizations, and museums.

Course	Title	Credit Hours
First Year		
First Semester		
BSC 120  	Principles of Biology	4
MTH 140 	Applied Calculus	3
ENG 101 	Beginning Composition	3
Free Elective		3
UNI 100	Freshman First Class	1
Credit Hours		14
Second Semester		
BSC 121  	Principles of Biology	4
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 Pre-req)		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
PSY 201 	Introductory Psychology (CT) (Core II	3
or SOC 200  	Social Science) or Introductory Sociology (CT)	
Credit Hours		15
Second Semester		
CHM 212  	Principles Chemistry II	3
CHM 218 	Principles of Chem Lab II	2
AoE Elective		3
Core I Critical Thinking		3
Select one of the following:		3-4
BSC 302	Principles of Microbiology	
BSC 324	Principles of Genetics	
BSC 322	Principles Cell Biology	
Credit Hours		14-15

Third Year

First Semester




BSC 413	Prin of Organic Evolution	3
CHM 355 	Organic Chemistry I	3
AoE Elective		3
Free Elective		3
Free Elective		3
Credit Hours		15

Second Semester



CHM 356 	Organic Chemistry II	3
CHM 361	Intro Organic Chm Lab	3
Core II Humanities		3
Select one of the following:		3-4
BSC 302	Principles of Microbiology	
BSC 324	Principles of Genetics	
BSC 322	Principles Cell Biology	
Free Elective		3
Credit Hours		15-16


Fourth Year

First Semester

BSC 417 	Biostatistics	3
BSC 460	Conservation Biology	3
PHY 201 	College Physics I	3
PHY 202 	General Physics I Laboratory	1
Writing Intensive		3
Free Elective		3
Credit Hours		16


Second Semester

BSC 491 	Capstone Experience (C)	2
Writing Intensive		3
BSC 425	Systematics	3
AoE Elective		3
PHY 203 	College Physics II	3

PHY 204 	General Physics 2 Laboratory	1
	Credit Hours	15
	Total Credit Hours	120-122
























Plant 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

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Code	Title	Credit Hours
Core Curriculum		
<i>Core 1: Critical Thinking</i>		
FYS 100	First Yr Sem Critical Thinking	3
	Critical Thinking Course	3
	Critical Thinking Course	
<i>Core 2</i>		
ENG 101 	Beginning Composition	3
ENG 201 	Advanced Composition	3
CMM 103 	Fund Speech-Communication	3
BSC 120  	Principles of Biology ¹	4
MTH 140 	Applied Calculus	3
	Core II Humanities	3
	Core II Social Science	3
	Core II Fine Arts	3
<i>Additional University Requirements</i>		
	Writing Intensive	3
	Writing Intensive	3
	Multicultural or International	3
BSC 491 	Capstone Experience ²	2
Major-Specific		
BSC 121  	Principles of Biology ¹	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
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
Area of Emphasis-Specific		
Select two of the following three courses:		6-8

BSC 302 	Principles of Microbiology	
BSC 320	Principles of Ecology	
BSC 324	Principles of Genetics	
BSC 322	Principles Cell Biology	4
BSC 430	Plant Ecology	4
BSC 416	Plant Taxonomy	4
BSC 420	Plant Physiology	4
<i>Area of Emphasis Electives</i>		
Select three of the following:		10
BSC 302	Principles of Microbiology	
BSC 304	Microbiology Lab	
BSC 410	Remote Sensing/GIS Appl	
BSC 411	Dgtl Image Proc/GIS Model	
BSC 445	Microbial Ecology	
BSC 460	Conservation Biology	
CHM 365	Introductory Biochemistry	
Free Elective (MTH 122 recommended for PHY pre-req)		3
Free Elective		3
Free Elective		3
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 and earn a grade of C or better in BSC 121 Principles of Biology, 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 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.
- Calculus I requires ACT Mathematics score of 27 or higher. Students with an ACT Mathematics score less than 27 will be placed in the appropriate 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 Plant Biology will be prepared for a wide range of careers including agricultural and pharmaceutical research, industry, plant ecology, and positions with state or federal government agencies (USFS, USF-WS, USACE, DNR, EPA).

Course	Title	Credit Hours
First Year		
First Semester		
BSC 120  	Principles of Biology	4
MTH 140 	Applied Calculus	3
ENG 101 	Beginning Composition	3
Multicultural or International		3
UNI 100	Freshman First Class	1
Credit Hours		14
Second Semester		
BSC 121  	Principles of Biology	4
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 pre-req)		3
Credit Hours		16
Second Year		
First Semester		
Select one of the following:		3-4
BSC 302 	Principles of Microbiology	
BSC 322	Principles Cell Biology	
BSC 324	Principles of Genetics	
CHM 211  	Principles of Chemistry I	3
CHM 217  	Principles of Chem Lab I	2
ENG 201 	Advanced Composition	3
PSY 201 	Introductory Psychology (CT) (Core II	3
or SOC 200 	Social Science) or Introductory Sociology (CT)	
Credit Hours		14-15
Second Semester		
CHM 212  	Principles Chemistry II	3
CHM 218  	Principles of Chem Lab II	2
Free Elective		3



Core I Critical Thinking	3
Select one of the following:	3-4
BSC 302 	Principles of Microbiology
BSC 320	Principles of Ecology
BSC 324	Principles of Genetics
Credit Hours	14-15

Third Year		
First Semester		
BSC 322	Principles Cell Biology	4
CHM 355 	Organic Chemistry I	3
AoE Elective		4
Free Elective		3
Credit Hours		14
Second Semester		
CHM 356 	Organic Chemistry II	3
CHM 361	Intro Organic Chm Lab	3
Core II Humanities		3
BSC 430	Plant Ecology	4
Free Elective		3
Credit Hours		16

Fourth Year		
First Semester		
BSC 416	Plant Taxonomy	4
AoE Elective		3
PHY 201 	College Physics I	3
PHY 202 	General Physics I Laboratory	1
Writing Intensive		3
Free Elective		2
Credit Hours		16
Second Semester		
BSC 491 	Capstone Experience (C)	2
Writing Intensive		3
BSC 420	Plant Physiology	4
AoE Elective		3
PHY 203 	College Physics II	3
PHY 204 	General Physics 2 Laboratory	1
Credit Hours		16
Total Credit Hours		120-122

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	4
BSC 121 	Principles of Biology	4
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	

Select a minimum of 4 additional hours at the 300-400 level	4
Total Credit Hours	15-16

This is a minimum of 15 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. Michael Castellani, 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. 550)
- Chemical Sciences, B.S. (p. 552)
- Chemistry, B.S. ACS Certified (p. 554)
- Chemistry, Minor (p. 555)
- Environmental Chemistry, B.S. (p. 556)
- Forensic Chemistry, B.S. (p. 557)

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.

Pre-req: MTH 127 with a minimum grade of C or ACT Math with a score of 21 or Placement Chemistry with a score of 111 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 inter- actions with each other. Development of theories and applications of the principles of energetics, dynamics and structure. Intended primarily for science majors and pre-professional 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 CHM 111 with a minimum grade of C or Placement Chemistry with a score of 211) 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.

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.

Pre-req: Admitted Honors College with a score of 1.

Co-req: CHM 212

Attributes: Honors, No Textbook Required, 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.

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 laboratory conduct.

Pre-req: CHM 356 with a minimum grade of C.

Attributes: No Textbook Required, 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.

Attributes: No Textbook Required, 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.

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.

Pre-req: CHM 212 and (CHM 218 or CHM 218H).

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.

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.

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 and MTH 229.

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 or MTH 229H) and (PHY 211 or PHY 201).

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.

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.

Pre-req: CHM 327 or CHM 356.

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.

Pre-req: Admitted Honors College with a score of 1.

Attributes: Honors, No Textbook Required, 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.

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.

Attributes: No Textbook Required, 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.

Pre-req: CHM 307 with a minimum grade of C or CHM 357 with a minimum grade of C.

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. (PR: CHM 365 and either BSC 322 or 324).

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.

Attributes: No Textbook Required, 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.

Pre-req: CHM 490 or CHM 491.

Attributes: No Textbook Required, Natural Sciences

Grade Mode: Credit/No Credit Grade Only

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 D and (CHM 357 with a minimum grade of D or CHM 358 with a minimum grade of D).

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 reactants 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.

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).	
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: No Textbook Required, Natural Sciences	
Grade Mode: Normal Grading Mode	
CHM 486 Independent Study	1-4 Credit hours
Attributes: No Textbook Required, 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.	
Pre-req: CHM 305.	
Attributes: Capstone Course, No Textbook Required, 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.	
Pre-req: CHM 305.	
Attributes: Capstone Course, No Textbook Required, Natural Sciences	
Grade Mode: Normal Grading Mode	

Faculty

Professors

Castellani, Frost, Norton

Associate Professors


Day, Kolling, McCunn, Morgan, O'Connor, Price, Quiñones, Wang

Assistant Professors

Markiewicz, Hostetler, Rakus

































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		
<i>Core 1: Critical Thinking</i>		
FYS 100	First Yr Sem Critical Thinking	3
MTH 229 	Calculus/Analytic Geom I (CT)	5
Critical Thinking Course		3
<i>Core 2</i>		
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	4
Core II Humanities		3
Core II Social Science		3
Core II Fine Arts		3
<i>Additional University Requirements</i>		
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		
BSC 121  	Principles of Biology	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
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 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
<i>Biochemistry Electives</i>		
Select from the following courses. At least one course must be 4 10-12 credit hours, and at least one must be a CHM course.		
BSC 302	Principles of Microbiology	


BSC 422	Animal Physiology	
BSC 428	Neuroscience	
BSC 443	Microbial Genetics	
BSC 448	Introductory Immunology	
BSC 450	Molecular Biology	
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

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	4
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	4
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
Free Elective		3
Free Elective		3
Credit Hours		15

Second Semester		
BSC 324	Principles of Genetics	4
CHM 356 	Organic Chemistry II	3
CHM 361 	Intro Organic Chm Lab	3
CMM 103  	Fund Speech-Communication	3
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 201  	College Physics I	3
PHY 202  	General Physics I 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
PHY 203 	College Physics II	3
PHY 204 	General Physics 2 Laboratory	1

Core II Humanities	3
Biochemistry Elective	3-4
Credit Hours	15-16
Fourth Year	
First Semester	
BSC 450 Molecular Biology	3
CHM 491 Capstone Experience or CHM 490 or Internship	2
Writing Intensive	3
Biochemistry Elective (CHM Course)	3-4
Biochemistry Elective	3-4
Credit Hours	14-16
Second Semester	
CHM 432 Chemistry Seminar	0
Biochemistry Elective	3-4
Select one of the following:	4
CHM 358 Physical Chemistry: Thermo. (WI)	
CHM 357 Physical Chemistry: Quantum (WI)	
Writing Intensive	3
Free Elective	3
Free Elective	2
Credit Hours	15-16
Total Credit Hours	120-124

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		
<i>Core 1: Critical Thinking</i>		
FYS 100	First Yr Sem Critical Thinking	3
MTH 229	Calculus/Analytic Geom I (CT)	5
	Critical Thinking Course	3
<i>Core 2</i>		
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 🏢	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	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
 - overall,
 - at MU,
 - in all required Chemistry courses,
 - in all Chemistry courses, and
 - 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
UNI 100	Freshman First Class	1
Credit Hours		14
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
Science or Math Elective		4
Credit Hours		17

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
Credit Hours		13

Third Year

First Semester





300/400 CHM Elective		3
CHM 305	Research Methods Chem	1
Core II Fine Arts		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
Core II Humanities		3
Free Elective		3
Free Elective		1
Credit Hours		15

Fourth Year

First Semester

CHM 345 	Intro to Analytical Chem	4
CHM 491 	Capstone Experience	2
or	or Internship	
CHM 490 		
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	120

¹ Or CHM 357 Physical Chemistry: Quantum in Fall (WI)

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		
<i>Core 1: Critical Thinking</i>		
FYS 100	First Yr Sem Critical Thinking	3
MTH 229	Calculus/Analytic Geom I (CT)	5
	Critical Thinking Course	3
<i>Core 2</i>		
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
<i>Additional University Requirements</i>		
	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

<i>Electives</i>		
Free Elective		3
Free Elective		3
Free Elective		3
Free Elective		3
Free Elective		3
Free Elective		3
Free Elective		2

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		
<i>Core 1: Critical Thinking</i>		
FYS 100	First Yr Sem Critical Thinking	3
MTH 229 	Calculus/Analytic Geom I (CT)	5
Critical Thinking Course		3
<i>Core 2</i>		
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	5
& CHM 217 	and Principles of Chem Lab I	
Core II Humanities		3
Core II Social Science		3
Core II Fine Arts		3
<i>Additional University Requirements</i>		
Writing Intensive (CHM 357 or 358)		3
Writing Intensive		3
Multicultural or International		3
CHM 491 	Capstone Experience	1-6
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	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
Environmental Analytical Chemistry (Milestone)		3
CHM 491 	Capstone Experience (C)	2
or CHM 490 	Internship	
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	4
BSC 121 	Principles of Biology	4
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
Statistics Elective		3
<i>Environ Science Requirement</i>		
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		3


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	4
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
CHM 212  	Principles Chemistry II	3
CHM 218  	Principles of Chem Lab II	2
BSC 121 	Principles of Biology	4
Credit Hours		12
Second Year		
First Semester		
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		13
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 (Milestone)	3
Credit Hours	16

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		2
Credit Hours		14

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 	Capstone Experience	2
or	or Internship	
CHM 490 		
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
Free Elective		3
BSC 445	Microbial Ecology	3
GEO 422 🏡	Environmental Geography	3
Multicultural or International		3
NRE 323	Assessment II: Aquatic Ecology	4
Credit Hours		16
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		
<i>Core 1: Critical Thinking</i>		
FYS 100	First Yr Sem Critical Thinking	3
MTH 229	Calculus/Analytic Geom I (CT)	5
	Critical Thinking Course	3
<i>Core 2</i>		
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	4
Core II Humanities		3
CJ 200	Intro to Criminal Justice (Core II Social Science)	3
or CJ 211	Intro to Law Enforcement	
Core II Fine Arts		3
<i>Additional University Requirements</i>		
Writing Intensive		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	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	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
STA 225	Introductory Statistics (CT)	3
or STA 345	Applied Prob and Stat	
BSC 121	Principles of Biology	4
BSC 322	Principles Cell Biology	4
BSC 324	Principles of Genetics	4

CIT 163	Intro to Programming: C++	3
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Restricted Electives¹

Chemistry courses may not be counted both as a chemistry elective and in this category.

Select two of the following: 6

BSC 450	Molecular Biology	
CHM 428	Intro Forensic Methods	
CHM 467	Intermediate Biochemistry	
CJ 314	Crime Scene Investigation	3
CJ 323	Criminal Procedure	3
or CJ 422	Law of Evidence	

Free Elective 3

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
 - overall,
 - at MU,
 - in all required Chemistry courses,
 - in all Chemistry courses, and
 - 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	4
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	4
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
BSC 121	Principles of Biology	4
STA 225 or STA 345	Introductory Statistics (CT) or Applied Prob and Stat	3
Credit Hours		17
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 Investigation	3
Credit Hours		13
Second Semester		
Select one of the following:		4
CHM 358	Physical Chemistry: Thermo. (WI)	
CHM 357	Physical Chemistry: Quantum (WI)	
Core II Humanities		3

Core I Critical Thinking		3
BSC 322	Principles Cell Biology	4
CJ 323 or CJ 422	Criminal Procedure or Law of Evidence	3
Credit Hours		17
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
Free Elective		3
300/400 CHM Elective		3
Restricted Elective		4
CHM 411	Modern Instrument Methods	4
Multicultural or International		3
Credit Hours		17
Total Credit Hours		126

Department of Computer and Information Technology

Contacts: Dr. Carl Mummert, Chair
Website: <http://www.marshall.edu/cit/>

cit@marshall.edu

Programs

- Computer and Information Technology, B.S. (p. 562)
- Computer and Information Technology, Minor (p. 567)
- Game Development, Minor (p. 567)
- Web Development, Minor (p. 568)

Courses

- General Education Course

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 236 Data Structures**3 Credit hours**

Covers fundamental topics of information technology including the concepts of object-orientation, linear data structures, data representation, data manipulation algorithms and their applications, and project participations.

Pre-req: CIT 163 or IST 163.**Grade Mode:** Normal Grading Mode**CIT 238 Algorithms****3 Credit hours**

Covers algorithm-design methods, algorithm performance analysis, and optimization techniques. Covers algorithm applications used in solving frequently occurring problems, such as pattern matching, data compression, searching, and sorting.

Pre-req: CIT 236 or IST 236.**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 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 313 Web Programming II****3 Credit hours**

The second semester of 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.**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 or IST 332.**Grade Mode:** Normal Grading Mode**CIT 338 CAD and Terra Modeling****3 Credit hours**

Introduction to CAD 2D and 3D principles set in a land modeling format. Data sets will be used to model 3D contours of land and river beds.

Pre-req: IST 423.**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 or IST 163 or CS 110.**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 366 DB Design/Reporting****3 Credit hours**

Introduction to database design, data modeling techniques, advanced queries, and database manipulation concepts. This course helps develop conceptual and organizational skills for planning effective formal database reports.

Pre-req: IST 365 or CIT 365.**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.

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 410 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 or CS 120.

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 or IST 360.

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 or IST 439.

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: 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.

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

Professor

Morgan

Associate Professor

Chahryar

Assistant Professors

Cartwright, Mauro, 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 Application Development
- Web/Mobile 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 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 Application Development, Emphasis (p. 562)
- Game/Simulation Development, Emphasis (p. 564)
- Web Application/Mobile Development, Emphasis (p. 566)








Computer 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		
<i>Core 1: Critical Thinking</i>		
FYS 100	First Yr Sem Critical Thinking	3
STA 225 	Introductory Statistics (CT)	3
Critical Thinking Course		3
<i>Core 2</i>		
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	4
or BSC 104 		Introduction to Biology
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 or CIT 470 🐼 Internship in CIT	3
Major-Specific	
IST 150 Spreadsheet & Database Prin	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 or CIT 266 Applied C++ Programming	3
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 or ART 219 Foundations: Frame/Time	3
MGT 320 Principles of Management	3
CIT 490 🐼 Capstone Project in CIT (C) or CIT 470 🐼 Internship in CIT	3
MTH 140 🐼 🎓 Applied Calculus	3
MTH 220 🐼 Discrete Structures	3
STA 225 🐼 Introductory Statistics (CT)	3
NRE 212 Energy	3
NRE 111 🐼 Living Systems or BSC 104 🐼 Introduction to Biology	4
Physical/Natural Science Elective	4
Area of Emphasis-Specific	
CIT 410 Electronic Commerce	3
CIT 466 Database Programming	3
CIT Technical 300/400 Elective	3
CIT Technical 300/400 Elective	3
CIT Technical 300/400 Elective	3
NRE 423 GIS and Data Systems	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.
- 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 rooted and grounded in courses that are both highly theoretical while also extremely applied in nature. It focuses on the development of computer applications for business, industry, and education that run on the personal computer or that integrate various hardware pieces into the computer system as a whole. 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		
IST 150	Spreadsheet & Database Prin	3
ENG 101 🐼	Beginning Composition	3
NRE 111 🐼	Living Systems	4
or BSC 104 🐼	or Introduction to Biology	
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 225 🌿	Introductory Statistics (CT)	3
Social Science		3
Credit Hours		15
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 410	Electronic Commerce	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 423	GIS and Data Systems	3
NRE 212	Energy	3
Writing Intensive		3
Credit Hours		15
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		
<i>Core 1: Critical Thinking</i>		
FYS 100	First Yr Sem Critical Thinking	3
STA 225 🌿	Introductory Statistics (CT)	3
MTH 229 🌿	Calculus/Analytic Geom I (CT)	5
<i>Core 2</i>		
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
NRE 111 🌿	Living Systems	4
or BSC 104 🌿	Introduction to Biology	
Core II Social Science		3
Core II Fine Arts		3
<i>Additional University Requirements</i>		
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		
IST 150	Spreadsheet & Database Prin	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 or ART 219	Foundations: Grid/Chroma Foundations: Frame/Time	3
MGT 320	Principles of Management	3
CIT 490 🌿 or CIT 470 🌿	Capstone Project in CIT (C) Internship in CIT	3
MTH 229 🌿	Calculus/Analytic Geom I (CT)	5
STA 225 🌿	Introductory Statistics (CT)	3
NRE 111 🌿	Living Systems	4

or BSC 104	Introduction to Biology	
NRE 212	Energy	3
Physical/Natural Science Elective		4
MTH 220	Discrete Structures	3
Area of Emphasis-Specific		
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
MTH 329	Elementary Linear Algebra	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.
- 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.
- 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 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 rooted and grounded in courses that are both highly theoretical while also extremely applied in nature. Game development combines sound principles of computer application development with computer game development. This connection better 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		
IST 150	Spreadsheet & Database Prin	3

ENG 101	Beginning Composition	3
NRE 111	Living Systems	4
or BSC 104	or Introduction to Biology	
Core II Social Science (M/I)		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
ENG 201	Advanced Composition	3
FYS 100	First Yr Sem Critical Thinking	3
MTH 229	Calculus/Analytic Geom I (CT)	5
Credit Hours		14

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
Free Elective		1
Credit Hours		13

Second Semester

ART 214	Foundations: Grid/Chroma	3
or ART 219	or Foundations: Frame/Time	
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
MTH 329	Elementary Linear Algebra	3
CIT 266	Applied C++ Programming	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
Physical/Natural Science Elective		4
Writing Intensive		3
Credit Hours		16

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 🌿 Capstone Project in CIT or CIT 470 🌿 or Internship in CIT	3
STA 225 🌿 Introductory Statistics (CT)	3
Credit Hours	15
Total Credit Hours	120

Web Application/Mobile 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		
<i>Core 1: Critical Thinking</i>		
FYS 100	First Yr Sem Critical Thinking	3
STA 225 🌿	Introductory Statistics (CT)	3
	Critical Thinking Course	3
<i>Core 2</i>		
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	4
	or BSC 104 🌿 Introduction to Biology	
	Core II Humanities	3
	Core II Social Science	3
	Core II Fine Arts	3
<i>Additional University Requirements</i>		
	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		
IST 150	Spreadsheet & Database Prin	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 265	C# NET 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 225 🌿	Introductory Statistics (CT)	3
NRE 111 🌿	Living Systems	4
	or BSC 104 🌿 Introduction to Biology	
NRE 212	Energy	3
	Physical/Natural Science Elective	4
Area of Emphasis-Specific		
CIT 410	Electronic Commerce	3
CIT 413	iOS Development	3
CIT 414	Android Development	3
CIT 416	Advanced Web Programming	3
CIT 466	Database Programming	3
DFIA 445	Mobile and Web Pen Testing	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.
- 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 rooted and grounded in courses that are both highly theoretical while also extremely applied in nature. This area of emphasis allows students to specialize in developing web applications and content using web-based development languages, and the effective design and organization of databases, including the development of fully functional web application systems. Courses in mobile application development will teach students how to build apps for Android and iOS while integrating those apps with web apps.

Course	Title	Credit Hours
First Year		
First Semester		
IST 150	Spreadsheet & Database Prin	3
ENG 101 	Beginning Composition	3
NRE 111  or BSC 104 	Living Systems or Introduction to Biology	4
Core II Fine Arts		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
MTH 220 	Discrete Structures	3
Credit Hours		12
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
Multicultural or International (CT)		
STA 225 	Introductory Statistics (CT)	3
Credit Hours		12
Third Year		
First Semester		
CIT 265	C# NET Programming	3
CIT 332 	Software Engineering I	3
CIT 365 	Database Management	3

Core II Social Science (CT)		3
Free Elective		3
Credit Hours		15
Second Semester		
CIT 333 	Software Engineering II	3
CIT 410	Electronic Commerce	3
DFIA 445	Mobile and Web Pen Testing	4
Physical/Natural Science Elective		4
Writing Intensive		3
Free Elective		3
Credit Hours		20
Fourth Year		
First Semester		
CIT 352	Network Protocols and Admin	3
CIT 413	iOS Development	3
CIT 466	Database Programming	3
NRE 212	Energy	3
Writing Intensive		3
Credit Hours		15
Second Semester		
CIT 414	Android Development	3
CIT 416	Advanced Web Programming	3
MGT 320	Principles of Management	3
Free Elective		2
CIT 490  or CIT 470 	Capstone Project in CIT or Internship in CIT	3
Credit Hours		14
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 446	3D Modeling and Animation	
CIT 447	Modeling/Simulation Dev	
CIT 448	Mobile Game Development	
CIT 443	Game Development III: AI	
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, B.A. (p. 571)
- Criminal Justice, Minor (p. 574)

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.

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.

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.

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.

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.

Grade Mode: Normal Grading Mode

CJ 281 Special Topics 1-4 Credit hours

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.
Grade Mode: Normal Grading Mode
- CJ 283 Special Topics** 1-4 Credit hours
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 312 Criminal Investigation** 3 Credit hours
Investigation methodology, realtions of the detective with other police divisions; modus operandi; sources of information; surveillance, interrogation, follow-up procedures.
Pre-req: CJ 211.
Grade Mode: Normal Grading Mode
- CJ 314 Crime Scene Investigation** 3 Credit hours
This course exposes students to crime scene evidence, collection techniques, and the various uses of modern technology in preserving and analyzing evidence.
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.
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.
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.
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.
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.
Pre-req: CJ 231.
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.
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.
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 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 culture 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 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, competency 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.**Grade Mode:** Normal Grading Mode**CJ 433 Correctional Administration****3 Credit hours**

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.

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.

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.

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.

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.

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.

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.

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.

Grade Mode: Normal Grading Mode**CJ 490 Internship****1-6 Credit hours**

The placement of an individual into a criminal justice agency (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, Brown, DeTardo-Bora

Assistant Professors

Perkins, 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		
<i>Core 1: Critical Thinking</i>		
FYS 100	First Yr Sem Critical Thinking	3
MTH 160 🌿	Applied Math Reasoning (CT)	5
Critical Thinking Course		3
<i>Core 2</i>		
ENG 101 🌿🎓	Beginning Composition	3
ENG 201 🌿🎓	Advanced Composition	3
CMM 103 🌿🎓	Fund Speech-Communication	3
MTH 160 🌿🎓	Applied Math Reasoning (CT)	5
IST 224 🌿	Intro to Forensic Science (Core II Physical/Natural Science)	4
Core II Humanities		3
CJ 200 🌿	Intro to Criminal Justice (Core II Social Science)	3
Core II Fine Arts (milestone course)		3
<i>Additional University Requirements</i>		
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 three of the following: ¹		9
CJ 211 🌿	Intro to Law Enforcement	
CJ 221 🌿	Intro to Criminal Courts	

CJ 223	Introduction to Legal Research	
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
IST 150	Spreadsheet & Database Prin	3
or MIS 200	Bus Computer Applications	
IST 224 🌿	Intro to Forensic Science	4
IST 264	Technology Foundations	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. 573)
- Law Enforcement, Emphasis (p. 573)
- Legal Studies, Emphasis (p. 573)

 - General Education Course









 - 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 223 	Introduction to Legal Research	
CJ 231 	Intro to Corrections	
Core II Fine Arts		3
Core I Critical Thinking		3
Credit Hours		14

Second Year

First Semester


IST 150 or MIS 200	Spreadsheet & Database Prin or Bus Computer Applications	3
ENG 201 	Advanced Composition	3
Select one of the following:		3
CJ 211 	Intro to Law Enforcement	
CJ 221 	Intro to Criminal Courts	
CJ 223	Introduction to Legal Research	
CJ 231 	Intro to Corrections	
Free Elective		3
Core I: Multicultural/International		3
Credit Hours		15

Second Semester



IST 264	Technology Foundations	3
Select one of the following:		3
CJ 211 	Intro to Law Enforcement	
CJ 221 	Intro to Criminal Courts	
CJ 223	Introduction to Legal Research	
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


IST 224 	Intro to Forensic Science	4
300/400 CJ Concentration Elective		3
300/400 CJ Concentration Elective		3
CJ 302 	CJ Research Methods (prereq CJ-2 and Junior Status)	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 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 426	Civil Liability Issues CJ	
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 312	Criminal Investigation	
CJ 314	Crime Scene Investigation	
CJ 323	Criminal Procedure	

CJ 400	Applied Ethics in CJ	
CJ 406 	Race, Ethnicity, Class & Crime	
CJ 410	Police Administration	
CJ 416	Terrorism	
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 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 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 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. 575)
- Cyber Forensics and Security, B.S. (p. 575)
- Information Assurance, Certificate (p. 577)

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.

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.

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 exfiltrate data from computers and networks.

Pre-req: CFS 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.

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 from 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.

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 and CFS 400 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.

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.

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 200 with a minimum grade of D and 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.

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 and CIT 357 with a minimum grade of D and CFS 261 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 200 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 460 with a minimum grade of D and CFS 462 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 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**3 Credit hours**

Students will learn advanced techniques, tools and frameworks used for Mobile and Web Penetration and Attack.

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 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 675 Thesis**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.

Grade Mode: Normal Grading Mode

CFS 680 Special Topics**3 Credit hours**

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	Technology Foundations	3
Select three courses of the sequence in Digital Forensics and Information Assurance:		9
DFIA 400	Intro to Digital Forensics	
DFIA 440	Digital Evidence	
DFIA 448	Forensic Image & Video	
DFIA 460	App Dig Evidence and eDisc	
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		
<i>Core 1: Critical Thinking</i>		
FYS 100	First Yr Sem Critical Thinking	3
Critical Thinking Course		5
Critical Thinking Course		3
<i>Core 2</i>		
ENG 101 	Beginning Composition	3
ENG 201 	Advanced Composition	3
CMM 103 	Fund Speech-Communication	3
MTH 140 	Applied Calculus	3
IST 224 	Intro to Forensic Science (Core II Physl/Natural Science)	4
Core II Humanities		3
CJ 200 	Intro to Criminal Justice	3
Core II Fine Arts		3
<i>Additional University Requirements</i>		
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
IST 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 Investigation	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 Investigation	3
CFS 467	Mobile Device Forensics	4
CFS 448	Multimedia Forensics	3
IST 224 	Intro to Forensic Science	4
Select one of the following CFS Technical Electives:		3
CFS 420	Incident Response	
CFS 430	Exploit Development	
DFIA 445	Mobile and Web Pen Testing	
CFS 461	Cyber Warfare	
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
IST 264	Technology Foundations	3
DFIA 357	Network Penetration and Attack	4
DFIA 454	Network Defense	4
DFIA 461	Cyber Warfare	3
Total Credit Hours		14

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: Dr. Ron Martino, Chair

Website: <http://www.marshall.edu/geology> (<http://www.marshall.edu/geology/>)

martinor@marshall.edu

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. Employment for geoscientists is predicted to grow 14 faster than the average for all other occupations between 2016-2026. The median annual wage for geoscientists was \$91,130 in 2018 (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. 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.S. is the more appropriate option for students considering graduate study 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.

If you are looking for a career with an exciting lifestyle, then Geology offers many advantages. For the individual who does not wish to be office-bound, Geology is an ideal career since much of the geologist's work is done in the field with adventures that can take you to remote parts of the world. A career in Geology provides many choices, many challenges and much fulfilling work.

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. In addition to university and college requirements, students must complete the following courses.

Programs

- Earth Science, B.A. (p. 580)
- Geology, B.A. (p. 582)
- Geology, B.S. (p. 582)
- Geology, Minor (p. 587)

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.

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, acoustic 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.

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.

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 contents. 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 298 ITV:** **1-4 Credit hours**
 A course based upon an Instruction Television series broad- cast by public television. The student is responsible for viewing the series on the air and satisfying all course requirements announced by the department.
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.
Pre-req: GLY 110 or GLY 200.
Attributes: Natural Sciences
Grade Mode: Normal Grading Mode
- GLY 314 Mineralogy** **4 Credit hours**
 Identification, classification, origin, 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.
Pre-req: GLY 200 with a minimum grade of D and GLY 210L with a minimum grade of D.
Grade Mode: Normal Grading Mode
- GLY 325 Stratigraphy & Sediment** **4 Credit hours**
 Formation, organization, sequence, and correlation of sedimentary rocks; study of the origin, 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.
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)
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 and (GLY 200 or GLY 110).
Grade Mode: Normal Grading Mode
- GLY 421 Igneous& Metamorphic Petrology** **4 Credit hours**
 Identification 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 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	3 Credit hours
GLY 427 Fossil Fuels Origin and distribution of coal, oil and gas, and methods of exploration and reserve evaluation. 3 lec-2 lab. Pre-req: GLY 200. Attributes: Natural Sciences Grade Mode: Normal Grading Mode	4 Credit hours
GLY 451 Principles Geomorphology 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	4 Credit hours
GLY 455 Hydrogeology 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 or GLY 110. Attributes: Natural Sciences Grade Mode: Normal Grading Mode	3 Credit hours
GLY 455L Hydrogeology Laboratory A two-hour laboratory of practical hydrogeologic problem solving. For non-majors, elective. Pre-req: GLY 110 or GLY 200. Attributes: Natural Sciences Grade Mode: Normal Grading Mode	1 Credit hour
GLY 456 Environmental Geology 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	4 Credit hours
GLY 457 Engineering Geology 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	4 Credit hours
GLY 470 Internship Internship in Digital Forensics and Information Assurance Grade Mode: Normal Grading Mode	3 Credit hours
GLY 480 Special Topics Attributes: Natural Sciences Grade Mode: Normal Grading Mode	1-4 Credit hours

GLY 481 Special Topics Attributes: Natural Sciences Grade Mode: Normal Grading Mode	1-4 Credit hours
GLY 482 Special Topics Attributes: Natural Sciences Grade Mode: Normal Grading Mode	1-4 Credit hours
GLY 483 Special Topics Attributes: Natural Sciences Grade Mode: Normal Grading Mode	1-4 Credit hours
GLY 485 Independent Study Attributes: No Textbook Required, Natural Sciences Grade Mode: Normal Grading Mode	1-4 Credit hours
GLY 486 Independent Study Attributes: Natural Sciences Grade Mode: Normal Grading Mode	1-4 Credit hours
GLY 487 Independent Study Attributes: Natural Sciences Grade Mode: Normal Grading Mode	1-4 Credit hours
GLY 488 Independent Study Attributes: Natural Sciences Grade Mode: Normal Grading Mode	1-4 Credit hours
GLY 491 🌿 Capstone Experience An independent study involving a research project or intern-ship. Must be approved by Geology faculty. (PR: 20 hours of Geology coursework). Attributes: Capstone Course, Natural Sciences Grade Mode: Normal Grading Mode	2-4 Credit hours
GLY 492 🌿 Capstone Experience An independent study involving a research project or intern-ship. Must be approved by Geology faculty. (PR: 20 hours of Geology coursework). Attributes: Capstone Course, Natural Sciences Grade Mode: Normal Grading Mode	2-4 Credit hours

Faculty

Professors
Caudill, Martino, El-Shazly

Earth 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
MTH 160 🌿	Applied Math Reasoning (CT)	5
PS 101 🌿	Introductory Astronomy (CT)	4
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
Core II Humanities			3
Core II Social Science			3
Core II Fine Arts			3
GLY 200	 	The Dynamic Earth	4
& GLY 210L		and Earth Materials Lab	

Additional University Requirements

Writing Intensive	3
Writing Intensive	3
Multicultural or International	3
GLY 491  Capstone Experience	2

Major-Specific


GLY 100	 	Geologic Hazards & Resources	3
GLY 150		Intro Oceanography	3
GLY 150L		Intro Oceanography Lab	1
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 313		Structural Geology	4
GLY 325		Stratigraphy & Sediment	4
GLY 451		Principles Geomorphology	4
GLY 456		Environmental Geology	4
GLY 491		Capstone Experience	2
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
BSC 120	 	Principles of Biology	4
IST 150		Spreadsheet & Database Prin	3
PS 101		Introductory Astronomy (CT)	4
PS 400		Astronomy	3
PS 400L		Astronomy Laboratory	1
MTH 160		Applied Math Reasoning (CT)	5
ENG 354		Scientific & Tech Writing	3
GEO 230		Intro to Meteorology (CT)	4
GEO 422		Environmental Geography	3
GEO 426		Principles of GIS	4
GLY Elective			4
GLY Elective			4
Elective (GLY, GEO, IST or NRE)			3-4

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 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.

 - General Education Course

 - 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. 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
BSC 120	  Principles of Biology	4
UNI 100	Freshman First Class	1
Credit Hours		15
Second Semester		
GLY 201	 The Earth Through Time	3
GLY 211L	 Earth Through Time Lab	1
ENG 201	  Advanced Composition	3
GLY 100	 Geologic Hazards & Resources	3
IST 150	Spreadsheet & Database Prin	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
PS 101	 Introductory Astronomy (CT)	4
GLY 325	 Stratigraphy & Sediment	4
GLY 150	 Intro Oceanography	3
GLY 150L	 Intro Oceanography Lab	1
Credit Hours		17

Second Semester		
GLY 313	Structural Geology	4
GLY Elective		4
ENG 354	Scientific & Tech Writing	3
MTH 160	Applied Math Reasoning (CT)	5
Credit Hours		16

Third Year		
First Semester		
PS 400	Astronomy	3
PS 400L	Astronomy Laboratory	1
GLY 451	Principles Geomorphology	4
Elective (GLY, GEO, IST or NRE)		4
Core II Fine Arts		3
Credit Hours		15

Second Semester		
GLY 456	Environmental Geology	4
GEO 230	Intro to Meteorology (CT)	4
CMM 103	Fund Speech-Communication	3
Writing Intensive		3
Credit Hours		14

Fourth Year		
First Semester		
PHY 201	College Physics I	3
PHY 202	General Physics I Laboratory	1
Writing Intensive		3
GEO 426	Principles of GIS	4
GLY 491	Capstone Experience	2
Free Elective		1
Credit Hours		14

Second Semester		
GEO 422	Environmental Geography	3
GLY Elective		4
Core II Humanities		3
Core II Social Science		3
Credit Hours		13
Total Credit Hours		120

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
CHM 211 & CHM 217	Principles of Chemistry I and Principles of Chem Lab I	5

PHY 201 & PHY 202	College Physics I and General Physics I Laboratory	4
MTH 229	Calculus/Analytic Geom I (CT)	5
GLY 200	The Dynamic Earth	3
GLY 210L	Earth Materials Lab	1
GLY 201	The Earth Through Time	3
GLY 212	Geologic Field Methods	3
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 421 or GLY 423	Igneous& Metamorphic Petrology Sedimentary Petrology	4
GLY 418 or GLY 426	Invertebrate Paleontology Geophysics	4
GLY 455 & GLY 455L	Hydrogeology and Hydrogeology Laboratory	4
GLY 457	Engineering Geology	4
GLY 491 or GLY 492	Capstone Experience Capstone Experience	2
Select 11 hours of the following electives:		11
GLY 330	Tectonics	
GLY 418	Invertebrate Paleontology	
GLY 426	Geophysics	
GLY 427	Fossil Fuels	
GLY 451	Principles Geomorphology	
GLY 456	Environmental Geology	
Total Credit Hours		73

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		
<i>Core 1: Critical Thinking</i>		
FYS 100	First Yr Sem Critical Thinking	3
MTH 229	Calculus/Analytic Geom I (CT)	5
Critical Thinking Course		3
<i>Core 2</i>		
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 🌿 🎓	The Dynamic Earth	4
& GLY 210L 🌿	and Earth Materials Lab	
<i>Additional University Requirements</i>		
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	Invertebrate Paleontology	3-4
or GLY 426	Geophysics	
GLY 420	Principles of Geochemistry	3
GLY 421	Igneous& Metamorphic Petrology	4
or GLY 423	Sedimentary Petrology	
GLY 455	Hydrogeology	3
GLY 455L	Hydrogeology Laboratory	1
GLY 457	Engineering Geology	4
GLY 491 🌿	Capstone Experience	2-4
or GLY 492 🌿	Capstone Experience	
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.

Areas of Emphasis

- Engineering Geology, Emphasis (p. 584)
- Environmental Geoscience, Emphasis (p. 586)

🌿 - General Education Course

🎓 - 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. 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
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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	Tectonics	
or GLY 451	or Principles Geomorphology	
Credit Hours		13-14

Second Semester

GLY 418	Invertebrate Paleontology	3-4
or GLY 426	or Geophysics	
GLY 421	Igneous& Metamorphic Petrology	4
or GLY 423	or Sedimentary Petrology	
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		
<i>Core 1: Critical Thinking</i>		
FYS 100	First Yr Sem Critical Thinking	3
MTH 229 	Calculus/Analytic Geom I (CT)	5
Critical Thinking Course		3
<i>Core 2</i>		
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  	The Dynamic Earth	4
& GLY 210L 	and Earth Materials Lab	
<i>Additional University Requirements</i>		
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	Tectonics	3
or GLY 426	Geophysics	
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 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.




 - General Education Course

 - 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 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	Tectonics	3
or GLY 426	or Geophysics	
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		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
CT Designated Course		3
Free Elective		1
Credit Hours		13
Total Credit Hours		120

Environmental Geoscience, Emphasis

 - General Education Course

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Major

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Code	Title	Credit Hours
Core Curriculum		
<i>Core 1: Critical Thinking</i>		
FYS 100	First Yr Sem Critical Thinking	3
MTH 229	Calculus/Analytic Geom I (CT)	5
Critical Thinking Course		3
<i>Core 2</i>		
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	Principles of Chemistry I	5
& CHM 217	and Principles of Chem Lab I	
<i>Additional University Requirements</i>		
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	Princ of GIS 2-Vector Analysis	4
Free Elective		3
Free Elective		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 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.
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 - General Education Course

 - 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 320L	Geology Lab Techniques	2
GLY 457	Engineering Geology	4
Core II: Humanities		3
Free Elective		3
Credit Hours		14

Second Semester

GEO 429	Princ of GIS 2-Vector Analysis	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 three majors, Mathematics, Applied 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, 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

- Applied Mathematics, B.S. (p. 593)
- Math/Applied Math Double Major (p. 595)
- Mathematics, B.S. (p. 595)
- Mathematics, M.A. (p. 598)
- Mathematics, Minor (p. 598)
- Mathematics, Teacher Certification (p. 598)
- Statistic and Mathematics Double Major (p. 598)
- Statistics and Applied Mathematics Double Major (p. 598)

- Statistics, B.S. (p. 598)
- Statistics, Minor (p. 600)

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.

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, 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, 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 to 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: 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: 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: 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.

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: 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. Not to be substituted for Mathematics 131 or Mathematics 190.

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: 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 25 or SAT Mathematics Before Mar. 16 with a score of 570 or SAT MATH SECTION SCORE with a score of 590.

Attributes: Honors

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, Mathematics

Grade Mode: Normal Grading Mode

MTH 220 🌿 **Discrete Structures****3 Credit hours**

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 IST 131 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: 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, 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, 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 IST 230 or MTH 229H with a minimum grade of C.

Attributes: 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.

Pre-req: MTH 230 with a minimum grade of C.

Attributes: 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. (PR or CR: MTH 231 or equivalent)

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.

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 IST 131 with a minimum grade of C or (MTH 122 with a minimum grade of C and MTH 127 with a minimum grade of C) or (MTH 122 with a minimum grade of C and 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: Mathematics, No Textbook Required

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, No Textbook Required

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.

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 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 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.

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.

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.

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.

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 perturbation methods.

Pre-req: MTH 300 and MTH 335.

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 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 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 Theory 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.

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 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, No Textbook Required**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 geometries, 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.

Pre-req: MTH 300 with a minimum grade of C.**Attributes:** Mathematics, No Textbook Required**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 D.**Attributes:** Capstone Course, No Textbook Required**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 D.**Attributes:** Capstone Course, Mathematics, No Textbook Required**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 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:** 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: 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: 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 125 with a minimum grade of C or MTH 121B with a minimum grade of C.

Attributes: Critical Thinking, 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 225 with a minimum grade of C or MTH 229 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 230 with a minimum grade of C or IST 230 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 weighted 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 and 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 D or MTH 445 with a minimum grade of D.

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 or MTH 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 or MTH 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; comparisons among the designs.

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 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 D or STA 445 with a minimum grade of D.

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 231 with a minimum grade of C.

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: MTH 445 or STA 445.**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 or MTH 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 or MTH 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. (PR: C or better in STA 445, or by permission).

Pre-req: MTH 445 with a minimum grade of C or 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, individualized course of study of a topic in statistics.

Attributes: No Textbook Required, Statistics**Grade Mode:** Normal Grading Mode

Faculty

Professors

Adkins, Akinsete, Aluthge, Brooks, Carlton, Lawrence, Mitchell, A. Mummert, Sarra, Saveliev

Associate Professors

Horwitz, Karna, Mallick, C. Mummert, Niese, Schroeder


Assistant Professors

A. Al-Aqtash, R. Al-Aqtash, Duhon, Elkadry, Jung, Otunuga

Instructors



























Crytzer, Johnson, Mace, Marsh, Miller-Mace, Scudder, Stapleton, Subedi, Wright

Applied 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		
<i>Core 1: Critical Thinking</i>		
FYS 100 	First Yr Sem Critical Thinking	3
MTH 229  	Calculus/Analytic Geom I (CT)	5
	Critical Thinking Course	3
<i>Core 2</i>		
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
<i>Additional University Requirements</i>		
	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		
MTH 229  	Calculus/Analytic Geom I (CT)	5
MTH 230  	Calculus/Analytic Geom II	4
CS 110	Computer Science I	3
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	
<i>MTH Sequence I & II</i>		
	Select two of the following elective sequences:	12
	Differential Equations:	
	MTH 335	
	MTH 415  Partial Differential Equations	
	or MTH 416 Advanced Differential Equation	
	Numerical Methods:	
	MTH 443  Numerical Analysis	
	MTH 411  Mathematical Modeling	

or MTH 442 Numerical Linear Algebra	
Probability and Statistics:	
STA 445	Probability & Statistics I
STA 446	Probability & Statistics II
Mathematics Education Majors may count the following as a sequence toward the Applied Mathematics Major:	
MTH 450	Modern Algebra I
MTH 335	Ordinary Diff Equations or MTH 427 Advanced Calculus I
Math Elective or Minor or 2nd Major	3
Math Elective or Minor or 2nd Major	3
Math Elective or 2nd Major	3
Math Elective or 2nd Major	3
<i>Math Electives</i>	
MTH 335	Ordinary Diff Equations
MTH 360	Intro to Complex Variables
MTH 361	Vector Calculus
MTH 405	History of Mathematics
MTH 411	Mathematical Modeling
MTH 415	Partial Differential Equations
MTH 416	Advanced Differential Equation
MTH 427	Advanced Calculus I
MTH 428	Advanced Calculus II
MTH 430	Topology I
MTH 431	Topology II
MTH 440	Graph Th and Combinatorics
MTH 442	Numerical Linear Algebra
MTH 443	Numerical Analysis
MTH 448	Modern Geometries
MTH 449	Projective Geometry
MTH 450	Modern Algebra I
MTH 452	Modern Algebra II
MTH 455	Number Theory
STA 412	Regression Analysis
STA 413	Experimental Designs
STA 420	Nonparametric Statistics
STA 422	Time Series Forecasting
STA 425	Sampling Designs & Estimation
STA 445	Probability & Statistics I
STA 446	Probability & Statistics II
STA 464	Statistical Computing
STA 466	Stochastic Processes
STA 470	Applied Survival Analysis
300/400 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	1


Major Information

- Applied Mathematics majors are not required to satisfy the College of Science requirement of a minor in another discipline. However, Applied Mathematics majors often elect to complete a second (or more) major(s) and/or one (or more) minor(s).
- Math electives may not duplicate those used for the sequence requirements. The number of elective courses required depends on whether a student is pursuing an outside minor or a 2nd major. The following are the three options:
 - No Outside Major or Minor: A student may graduate with a major in Applied Mathematics, without a second major or a minor, by completing an additional 4 elective mathematics courses from the list of electives. The major requires 50 credit hours.
 - Outside Minors: A student graduating with a single major in Applied Mathematics, and at least one minor outside the department, must complete at least 2 additional elective mathematics courses. Effectively, the major requires 44 credit hours.
 - Outside Double Majors: A student graduating with multiple majors, including Applied Mathematics, need not take any additional elective math courses. Effectively, the major requires 38 credit hours. A student pursuing multiple majors, including at least two of the majors in the department, should consult with the undergraduate coordinator or chair of the department for details.
- Since the major is quite flexible, students are expected to consult with the undergraduate coordinator in the department. Before graduation, the undergraduate coordinator must approve the selection of sequences and electives.
- 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.

Areas of Emphasis

- Mathematical Statistics, Emphasis (p. 597)



 - General Education Course

 - 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		3
CMM 103	Fund Speech-Communication	3
Multicultural or International		3
Core II Social Science		3
Credit Hours		16
Second Year		
First Semester		
CS 110	Computer Science I	3
MTH 231	Calculus/Analytic Geom III	4
ENG 201	Advanced Composition	3
Core II Physical/Natural Science		4
Credit Hours		14
Second Semester		
MTH 300	Intro to Higher Math	4
Core II Humanities		3
Math Elective or Minor or 2nd Major		3
COS Physical/Natural Science		3
300/400 Elective		3
Credit Hours		16
Third Year		
First Semester		
MTH 331	Linear Algebra	4
MTH Sequence I		3
Math Elective or Minor or 2nd Major		3
Free Elective		3
Free Elective		1
Credit Hours		14
Second Semester		
MTH Sequence I		3
Writing Intensive		3
Math Elective or 2nd Major		3
Free Elective		3
COS Physical/Natural Science		4
Credit Hours		16
Fourth Year		
First Semester		
MTH Sequence II		3
Writing Intensive		3
Math Elective or 2nd Major		3

300/400 Elective	3
Free Elective	3
Credit Hours	15
Second Semester	
MTH 490  Internship in Mathematics (C) or MTH 491  or Senior Seminar	2
MTH Sequence II	3
Free Elective	3
Free Elective	3
Free Elective	3
Credit Hours	14
Total Credit Hours	120

Math/Applied Math Double Major

A student may graduate with a double major in Mathematics and Applied Mathematics by completing 4 different sequences that satisfy both Sequence Requirements plus 4 Elective courses not in those sequences; that is, the full Mathematics requirements plus 2 Applied Mathematics sequences, without duplication.

Effectively, any of the double majors requires 62 credit hours. Students with an outside minor or major should consult with the undergraduate coordinator or chair of the department for details.

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		
<i>Core 1: Critical Thinking</i>		
FYS 100	First Yr Sem Critical Thinking	3
MTH 229	Calculus/Analytic Geom I (CT)	5
Critical Thinking Course		3
<i>Core 2</i>		
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) or MTH 491 Senior Seminar	2

College-Specific

COS Physical/Natural Science	4
COS Physical/Natural Science	3

Major-Specific

MTH 229 Calculus/Analytic Geom I (CT)	5
MTH 230 Calculus/Analytic Geom II	4
CS 110 Computer Science I	3
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) or MTH 491 Senior Seminar	2

MTH Sequence I & II

Select two of the following MTH sequences:	12
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Advanced Calculus:

MTH 427 Advanced Calculus I & MTH 428 and Advanced Calculus II

Topology:

MTH 430 Topology I & MTH 431 and Topology II

Modern Algebra:

MTH 450 Modern Algebra I & MTH 452 and Modern Algebra II

Math Elective or Minor or 2nd Major	3
Math Elective or Minor or 2nd Major	3
Math Elective or 2nd Major	3
Math Elective or 2nd Major	3

Math Electives

MTH 335 Ordinary Diff Equations
MTH 360 Intro to Complex Variables
MTH 361 Vector Calculus
MTH 405 History of Mathematics
MTH 411 Mathematical Modeling
MTH 415 Partial Differential Equations
MTH 416 Advanced Differential Equation
MTH 427 Advanced Calculus I
MTH 428 Advanced Calculus II
MTH 430 Topology I
MTH 431 Topology II
MTH 440 Graph Th and Combinatorics
MTH 442 Numerical Linear Algebra
MTH 443 Numerical Analysis
MTH 448 Modern Geometries
MTH 449 Projective Geometry

MTH 450 Modern Algebra I	
MTH 452 Modern Algebra II	
MTH 455 Number Theory	
STA 412 Regression Analysis	
STA 413 Experimental Designs	
STA 420 Nonparametric Statistics	
STA 422 Time Series Forecasting	
STA 425 Sampling Designs & Estimation	
STA 445 Probability & Statistics I	
STA 446 Probability & Statistics II	
STA 464 Statistical Computing	
STA 466 Stochastic Processes	
STA 470 Applied Survival Analysis	
300/400 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

- Mathematics majors are not required to satisfy the College of Science requirement of a minor in another discipline. However, Mathematics majors often elect to complete a second (or more) major(s) and/or one (or more) minor(s).
- Math electives may not duplicate those used for the sequence requirements. The number of elective courses required depends on whether a student is pursuing an outside minor or a 2nd major. The following are the three options:
 - No Outside Major or Minor: A student may graduate with a major in Mathematics, without a second major or a minor, by completing an additional 4 elective mathematics courses from the list of electives. The major requires 50 credit hours.
 - Outside Minors: A student graduating with a single major in Mathematics, and at least one minor outside the department, must complete at least 2 additional elective mathematics courses. Effectively, the major requires 44 credit hours.
 - Outside Double Majors: A student graduating with multiple majors, including Mathematics, need not take any additional elective math courses. Effectively, the major requires 38 credit hours. A student pursuing multiple majors, including at least two of the majors in the department, should consult with the undergraduate coordinator or chair of the department for details.
- Since the major is quite flexible, students are expected to consult with the undergraduate coordinator in the department. Before graduation, the undergraduate coordinator must approve the selection of sequences and electives.
- 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.

Areas of Emphasis









- Mathematical Statistics, Emphasis (p. 597)

 - General Education Course

 - 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		3
CMM 103 	Fund Speech-Communication	3
Multicultural or International		3
Core II Social Science		3
Credit Hours		16
Second Year		
First Semester		
CS 110	Computer Science I	3
MTH 231 	Calculus/Analytic Geom III	4
ENG 201 	Advanced Composition	3
Core II Physical/Natural Science		4
Credit Hours		14
Second Semester		
MTH 300 	Intro to Higher Math	4
Math Elective or Minor or 2nd Major		3
Core II Humanities		3
COS Physical/Natural Science		3
300/400 Elective		3
Credit Hours		16
Third Year		
First Semester		
MTH 331 	Linear Algebra	4

MTH Sequence I	3
Math Elective or Minor or 2nd Major	3
Free Elective	3
Free Elective	1
Credit Hours	14

Second Semester



MTH Sequence I	3
Writing Intensive	3
Math Elective or 2nd Major	3
Free Elective	3
COS Physical/Natural Science	4
Credit Hours	16

Fourth Year

First Semester

MTH Sequence II	3
Writing Intensive	3
Math Elective or 2nd Major	3
300/400 Elective	3
Free Elective	3
Credit Hours	15






Second Semester

MTH 490  Internship in Mathematics (C) or MTH 491  or Senior Seminar	2
MTH Sequence II	3
Free Elective	3
Free Elective	3
Free Elective	3
Credit Hours	14
Total Credit Hours	120

Mathematical Statistics, Emphasis

The Department of Mathematics offers an Area of Emphasis in Mathematical Statistics that is available only to Mathematics Majors or Applied Mathematics Majors. Students who completed an area of emphasis in mathematical statistics must have a demonstrated knowledge and understanding of statistical theory, techniques and methodologies, working with real data, and understanding of data analysis. An area of emphasis in mathematical statistics provides a window of job opportunities in business, government, industry and health sectors, and further studies in statistical sciences. For example, students with area of emphasis in mathematical statistics may be eligible to pursue the Master of Arts in Mathematics with an area of emphasis in statistics, with additional academic years of coursework. Students pursuing the mathematics major may choose an area of emphasis in mathematical statistics, while those pursuing the applied mathematics major must take a minimum of 15 CH in statistics-designated courses, none of which may count toward their major. The area of emphasis in mathematical statistics is not intended for students pursuing a major in statistics.

The requirements for an undergraduate Area of Emphasis in Mathematical Statistics consist of the following courses:

Code	Title	Credit Hours
Core Required Courses		
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
STA 445	Probability & Statistics I	3
STA 446	Probability & Statistics II	3
Elective Courses		
STA 412	Regression Analysis	3
STA 413	Experimental Designs	3
STA 420	Nonparametric Statistics	3
STA 422	Time Series Forecasting	3
STA 425	Sampling Designs & Estimation	3
STA 464	Statistical Computing	3
STA 466	Stochastic Processes	3

Mathematics, M.A.







The Department of Mathematics also offers an M.A. degree program in mathematics. Graduate assistantships carrying stipends and tuition benefits are available. Please contact the Mathematics department or consult the *Graduate Catalog* for further details.

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. Students who plan to complete a 5-Adult certification are encouraged to consult with the undergraduate coordinator in the Mathematics department about a second major in Applied Mathematics or Mathematics. Mathematics Education majors may count MTH 450 Modern Algebra I and (MTH 335 Ordinary Diff Equations or MTH 427 Advanced Calculus I) as a sequence toward the Applied Mathematics Major.

Statistic and Mathematics Double Major

A student may graduate with a double major in Statistics and either one of Mathematics or Applied Mathematics by first completing the core requirements for Statistics, and any two different sequences that satisfy any of the above listed Sequence Requirements in Mathematics or Applied Mathematics Majors. At least 12 additional credit hours are required from the list of elective courses, with no less than 6 credit hours of these chosen from among the statistics courses. Specifically, students taking double majors in Statistics and Applied Mathematics must take one additional sequence of two courses from the Applied Mathematics sequence, or two statistics courses from the elective courses not already listed under the Core Requirements for Statistics Majors.

Effectively, any of the double majors requires 62 credit hours. Students with an outside minor or major should consult with the undergraduate coordinator or chair of the department for details.


Statistics and Applied Mathematics Double Major

A student may graduate with a double major in Statistics and either one of Mathematics or Applied Mathematics by first completing the core requirements for Statistics, and any two different sequences that satisfy any of the above listed Sequence Requirements in Mathematics or Applied Mathematics Majors. At least 12 additional credit hours are required from the list of elective courses, with no less than 6 credit hours of these chosen from among the statistics courses. Specifically, students taking double majors in Statistics and Applied Mathematics must take one additional sequence of two courses from the Applied Mathematics sequence, or two statistics courses from the elective courses not already listed under the Core Requirements for Statistics Majors.

Effectively, any of the double majors requires 62 credit hours. Students with an outside minor or major should consult with the undergraduate coordinator or chair of the department for details.






















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		
<i>Core 1: Critical Thinking</i>		
FYS 100	First Yr Sem Critical Thinking	3
MTH 229  	Calculus/Analytic Geom I (CT)	5
	Critical Thinking Course	3
<i>Core 2</i>		
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
<i>Additional University Requirements</i>		
	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		
MTH 229  	Calculus/Analytic Geom I (CT)	5
MTH 230  	Calculus/Analytic Geom II	4
CS 110	Computer Science I	3
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
	Statistics Required Elective	3
	Statistics Required Elective	3
	Statistics Required Elective	3
	Math/Stat Required Elective	3
	Math/Stat Elective or Minor or 2nd Major	3
	Math/Stat Elective or Minor or 2nd Major	3
	300/400 Math/Stat Elective	3
	300/400 Math/Stat Elective	3

300/400 Math/Stat Elective	3
300/400 Math/Stat Elective	3
Math/Stat Elective or 2nd Major	3
Math/Stat Elective or 2nd Major	3

Elective Courses

STA 412	Regression Analysis
STA 413	Experimental Designs
STA 420	Nonparametric Statistics
STA 422	Time Series Forecasting
STA 425	Sampling Designs & Estimation
STA 445	Probability & Statistics I
STA 446	Probability & Statistics II
STA 464	Statistical Computing
STA 466	Stochastic Processes
STA 470	Applied Survival Analysis
MTH 335 	Ordinary Diff Equations
MTH 360 	Intro to Complex Variables
MTH 361 	Vector Calculus
MTH 405 	History of Mathematics
MTH 411 	Mathematical Modeling
MTH 415 	Partial Differential Equations
MTH 416	Advanced Differential Equation
MTH 427 	Advanced Calculus I
MTH 428 	Advanced Calculus II
MTH 430 	Topology I
MTH 431 	Topology II
MTH 440 	Graph Th and Combinatorics
MTH 442 	Numerical Linear Algebra
MTH 443 	Numerical Analysis
MTH 448 	Modern Geometries
MTH 449 	Projective Geometry
MTH 450 	Modern Algebra I
MTH 452 	Modern Algebra II
MTH 455	Number Theory


Major Information

- Statistics majors are not required to satisfy the College of Science requirement of a minor in another discipline. However, Statistics majors often elect to complete a second (or more) major(s) and/or one (or more) minor(s).
- The statistics and mathematics elective courses may not duplicate those used for the major requirements. The number of elective courses required depends on whether a student is pursuing an outside minor or a 2nd major. The following are the three options:
 - No Outside Major or Minor: A student may graduate with a major in Statistics, without a second major or a minor, by completing an additional 4 elective courses from the list of electives. At least 3 of the 4 electives must be chosen from among the STA-designated courses. The major requires 50 credit hours.
 - Outside Minors: A student graduating with a single major in Statistics, and at least one minor outside the department, must

complete at least 2 additional elective mathematics courses. Effectively, the major requires 44 credit hours.











- Outside Double Majors: A student graduating with multiple majors, including Statistics, need not take any additional elective math courses. Effectively, the major requires 38 credit hours. A student pursuing multiple majors, including at least two of the majors in the department, should consult with the undergraduate coordinator or chair of the department for details.
- Since the major is quite flexible, students are expected to consult with the undergraduate coordinator in the department. Before graduation, the undergraduate coordinator must approve the selection of sequences and electives.
- 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		3
CMM 103 	Fund Speech-Communication	3
Multicultural or International Elective		3
Core II Social Science		3
Credit Hours		16
Second Year		
First Semester		
CS 110	Computer Science I	3
MTH 231  	Calculus/Analytic Geom III	4
ENG 201  	Advanced Composition	3

Core II Physical/Natural Science		4
Credit Hours		14
Second Semester		
MTH 300 🦋🎓	Intro to Higher Math	4
Statistics Required Elective		3
Math/Stat Required Elective or Minor or 2nd Major		3
Physical/Natural Science Elective		4
Credit Hours		14
Third Year		
First Semester		
MTH 331 🦋	Linear Algebra	4
STA 445	Probability & Statistics I	3
Math/Stat Elective or Minor or 2nd Major		3
Math/Stat Elective or 2nd Major		3
Physical/Natural Science Elective		3
Credit Hours		16
Second Semester		
Humanities Elective		3
Writing Intensive Elective		3
STA 446	Probability & Statistics II	3
Math/Stat Elective or 2nd Major		3
Math/Stat Elective		3
Credit Hours		15
Fourth Year		
First Semester		
STA 412	Regression Analysis	3
300/400 Math/Stat Elective		3
300/400 Math/Stat Elective		4
Statistics Required Elective		3
Writing Intensive		3
Credit Hours		16
Second Semester		
STA 413	Experimental Designs	3
MTH 490 🦋 or MTH 491 🦋	Internship in Mathematics (C) or Senior Seminar	2
Statistis Required Elective		3
300/400 Math/Stat Elective		3
300/400 Math/Stat Elective		3
Credit Hours		14
Total Credit Hours		120

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. Mindy Armstead, Chair, m.armstead@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. Both 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, both 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. 605)
- Environmental Science, Minor (p. 610)
- Natural Resources and Recreation Management, B.S. (p. 610)
- Natural Resources and Recreation Management, Minor (p. 612)
- Specialty Agriculture, B.S. (p. 612)

Courses

 - General Education Course

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 Grade Mode: Normal Grading Mode	1-4 Credit hours	NRRM 380 Rec Resource Oper. and Admin 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	3 Credit hours
NRRM 282 Special Topics Grade Mode: Normal Grading Mode	1-4 Credit hours	NRRM 400 Leisure & Aging 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	3 Credit hours
NRRM 283 Special Topics Grade Mode: Normal Grading Mode	1-4 Credit hours	NRRM 402 Research Eval & Assess in NRRM Theoretical & practical approach to research, evaluation and assessment of the social sciences of natural resources and recreational management. Grade Mode: Normal Grading Mode	3 Credit hours
NRRM 301 Intro to Outdoor Recreation 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	3 Credit hours	NRRM 405 Park & Recreation Ecology 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	3 Credit hours
NRRM 310 Environmental Interpretation Principles and techniques of environmental interpretation as practiced in federal, state, and private agencies. Grade Mode: Normal Grading Mode	3 Credit hours	NRRM 410 Maint of Nat Res & Rec 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	3 Credit hours
NRRM 311 Intro to Environmental Educ 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	3 Credit hours	NRRM 411 Rec Resource Planning & Design 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	3 Credit hours
NRRM 320 Sports & Campus Rec Mgmt 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	3 Credit hours	NRRM 432 Wilderness/Protected Area Mgmt 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	3 Credit hours
NRRM 330 Concepts Philosophies in NRRM A systematic approach to the concepts and philosophies for managing wildland, wilderness, and protected areas. Grade Mode: Normal Grading Mode	3 Credit hours	NRRM 433 GIS/RS in Natural Resources 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	3 Credit hours
NRRM 340 Special Event Managment 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	3 Credit hours	NRRM 450 Intro OHV Recreation Grade Mode: Normal Grading Mode	3 Credit hours
NRRM 350 Adventure Education Leadership 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	3 Credit hours	NRRM 451 Plan Design OHV Trails Grade Mode: Normal Grading Mode	3 Credit hours
NRRM 360 Tourism Planning & Management 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	3 Credit hours	NRRM 452 Construction OHV Trails A course designed to instruct students in contemporary methods and techniques of constructing OHV trails and related facilities. Grade Mode: Normal Grading Mode	3 Credit hours
NRRM 361 Visitor Behavior in NRRM 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	3 Credit hours	NRRM 453 Op Mgt OHV Trail Systems Grade Mode: Normal Grading Mode	3 Credit hours
NRRM 362 Ecotourism: Admin and Mgmt 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	3 Credit hours	NRRM 480 Special Topics Grade Mode: Normal Grading Mode	1-4 Credit hours
		NRRM 481 Special Topics Grade Mode: Normal Grading Mode	1-4 Credit hours

NRRM 482 Special Topics
Grade Mode: Normal Grading Mode

1-4 Credit hours

NRRM 483 Special Topics
Grade Mode: Normal Grading Mode

1-4 Credit hours

NRRM 484 Special Topics
Grade Mode: Normal Grading Mode

1-3 Credit hours

NRRM 485 Independent Study
Attributes: No Textbook Required
Grade Mode: Normal Grading Mode

1-4 Credit hours

NRRM 486 Independent Study
Grade Mode: Normal Grading Mode

1-4 Credit hours

NRRM 487 Independent Study
Grade Mode: Normal Grading Mode

1-4 Credit hours

NRRM 488 Independent Study
Grade Mode: Normal Grading Mode

1-4 Credit hours

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

Natural Resources & 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 🌿 Discussions in Envriion Science **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 of Nat Res **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 or NRE 111) or BSC 104 or BSC 120.

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 or IST 323 or NRE 323.

Grade Mode: Normal Grading Mode

NRE 470 ES Internship**3 Credit hours**

A supervised internship in an area of natural resources and the environment.

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.

Attributes: Capstone Course, No Textbook Required

Grade Mode: Normal Grading Mode

Faculty

Professor

Armstead

Associate Professors

Jones, Kim

Assistant Professors

Gage

Instructors


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.

 - General Education Course

 - 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
General Education		
Select 34-36 hours of General Education courses		34-36
Core NRE Course		
IST 150	Spreadsheet & Database Prin	3
MTH 140 	Applied Calculus	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 120 	Discussions in Envriion Science	3
NRRM 200	Analytical Methods: Statistics	4
NRE 220 	Human Dimensions of Nat Res	3
NRE 423	GIS and Data Systems (waived for Specialty Agriculture majors)	3
NRE 425	Water Policy and Regulations	3
NRE 490	ES/NRRM Capstone Prep	3
Select one of the following:		3-6
NRE 491 	ES Senior Capstone	
NRE 470	ES Internship	



Major-Specific

Basic Science Requirements



Select one of the following or equivalent depending on emphasis: 4

NRE 111  Living Systems
or BSC 120  Principles of Biology

Select one of the following depending on emphasis: 3-4

NRE 212 Energy
PHY 201  College Physics I
& PHY 202  and General Physics I Laboratory

ES/AES Emphasis select the following:

GLY 200  The Dynamic Earth
& GLY 210L  and Earth Materials Lab


Upper-Level Science Requirements


Students must complete additional hours of 300- or 400-level coursework from the Chemistry, Biology, Geology, or Physics Departments as described in the requirements of individual Areas of Emphasis. 23-30

Areas of Emphasis





- Applied Environmental Science, Emphasis (p. 605)
- Conservation and Wildlife, Emphasis (p. 606)
- Environmental Science, Emphasis (p. 608)

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.





















Area of Emphasis


Code	Title	Credit Hours
NRE 111 	Living Systems	4
Select one of the following:		3-4
NRE 212	Energy	
PHY 201 	College Physics I	
& PHY 202 	and General Physics I Laboratory	
CIT 260	Instrumentation	3
IST 264	Technology Foundations	3
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
Select one of the following:		4
NRE 470	ES Internship	
NRE 491 	ES Senior Capstone (Senior Project)	
Total Credit Hours		34-35

 - General Education Course

 - 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.

Course	Title	Credit Hours
First Year		
First Semester		
IST 150	Spreadsheet & Database Prin	3
NRE 120 	Discussions in Envrion Science	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 	Principles of Biology	4
or NRE 111 	or Living Systems	
GLY 200 	The Dynamic Earth	3
GLY 210L 	Earth Materials Lab	1
NRE 220 	Human Dimensions of Nat Res	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 	College Physics I	
& PHY 202 	and General Physics I Laboratory	
CHM 218 	Principles of Chem Lab II	2
NRRM 200	Analytical Methods: Statistics	4
IST 264	Technology Foundations	3
Credit Hours		15-16
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	ES Internship	3
or NRE 491 	or ES Senior Capstone	
NRE 435	Biomonitoring	4
Major Elective		3
Free Elective		3
Credit Hours		13
Total Credit Hours		120-121










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		
<i>Core 1: Critical Thinking</i>		
FYS 100	First Yr Sem Critical Thinking	3
NRE 220 	Human Dimensions of Nat Res	3
NRE 120 	Discussions in Envrion Science	3
<i>Core 2</i>		
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 (Physical/Natural Science Elective)	4
<i>Additional University Requirements</i>	
Writing Intensive	3
Writing Intensive	3
Multicultural or International	3
NRE 491 🌿 ES Senior Capstone	3
Major-Specific	
IST 150 Spreadsheet & Database Prin	3
MTH 140 🌿🎓 Applied Calculus	3
NRE 120 🌿 Discussions in Envriion Science (CT)	3
NRE 220 🌿 Human Dimensions of 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 425 Water Policy and Regulations	3
NRE 470 ES Internship (Senior Project)	3
or NRE 491 🌿 ES Senior Capstone	
NRE 490 ES/NRRM Capstone Prep	3
Area of Emphasis-Specific	
BSC 120 🌿 Principles of Biology	4
BSC 121 🌿 Principles of Biology	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
or NRE 322 Assess I: Terrestrial Systems	
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		
IST 150	Spreadsheet & Database Prin	3
NRE 120 🌿	Discussions in Envriion Science	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	4

NRE 220 	Human Dimensions of Nat Res (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	4
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
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Core Curriculum

<i>Core 1: Critical Thinking</i>		
FYS 100	First Yr Sem Critical Thinking	3
NRE 120 	Discussions in Envrion Science	3
NRE 220 	Human Dimensions of Nat Res	3
<i>Core 2</i>		
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 (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

IST 150	Spreadsheet & Database Prin	3
MTH 140 	Applied Calculus	3
NRE 120 	Discussions in Envrion Science (CT)	3
NRE 220 	Human Dimensions of 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
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	ES Internship (Senior Project)	3
or NRE 491 	ES Senior Capstone	
NRE 490	ES/NRRM Capstone Prep	3


Area of Emphasis-Specific

BSC 120	 	Principles of Biology	4
BSC 121		Principles of Biology	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
Free 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		
IST 150	Spreadsheet & Database Prin	3
NRE 120	 Discussions in Envrion Science	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	  Principles of Biology	4
GLY 200	 The Dynamic Earth	3
GLY 210L	 Earth Materials Lab	1
NRE 220	 Human Dimensions of 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
NRE 212	Energy	3
Core II Fine Arts		3
Core II Social Science (MC/I)		3
Credit Hours		14

Second Semester		
BSC 121	 Principles of Biology	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	ES Internship (Senior Project)	3
or NRE 491 🌿	or ES Senior Capstone	
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		
<i>Core 1: Critical Thinking</i>		
FYS 100	First Yr Sem Critical Thinking	3
NRE 220 🌿	Human Dimensions of Nat Res	3
NRE 120 🌿	Discussions in Envriion Science	3
<i>Core 2</i>		
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
<i>Additional University Requirements</i>		
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 🌿	Discussions in Envriion Science	3
IST 150	Spreadsheet & Database Prin	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 of Nat Res	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 	Discussions in Envriion Science (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

IST 150	Spreadsheet & Database Prin	3
CMM 103  	Fund Speech-Communication	3
MTH 127  	College Algebra-Expanded	5
NRE 220 	Human Dimensions of Nat Res (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 of Nat Res	3
NRE 120 	Discussions in Envriion Science	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		
IST 150	Spreadsheet & Database Prin	3
NRE 120 	Discussions in Envriion Science	3
NRE 220 	Human Dimensions of Nat Res	3
NRRM 101 	Intro Natural Res & Rec Mgmt	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	4
BSC 121 	Principles of 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
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		
IST 150	Spreadsheet & Database Prin	3
NRE 120 	Discussions in Envriom Science	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	4
GEO 222 	Global Environment Issues (CT)	3
NRE 220 	Human Dimensions of Nat Res	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		3
Core II Fine Arts		3
NRE 200	Introduction to Agriculture	3
Credit Hours		14
Second Semester		
BSC 121 	Principles of Biology	4
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
BSC 420	Plant Physiology	4
Credit Hours		18

Fourth Year

First Semester

NRE 402	Sustainable Agriculture	3
ENT 360	Intro to Entrepreneurship	3
Major Specific Elective		3
Major Specific Elective		3
Major Specific Elective		4
Credit Hours		16

Second Semester

NRE 470	ES Internship	3
or NRE 491 	or ES Senior Capstone	
NRE 401	Horticulture	4
Writing Intensive		3
Major Specific Elective		4
Credit Hours		14
Total Credit Hours		127

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. 618)
- Physics, B.S. (p. 618)

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 or MTH 127 or MTH 130 or MTH 130E or MTH 229 or MTH 229H or MTH 203 or MTH 121B) or MTH 130H and PHY 101L (may be taken concurrently).

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.

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 vectors by triangles: force, energy, particle dynamics, rotation, fluids, waves, thermal phenomena.

Pre-req: (MTH 127 and MTH 122) or (MTH 130 and MTH 122) or MTH 132 or (MTH 140 and MTH 122) or MTH 229 or MTH 229H or MTH 140H and PHY 202 (may be taken concurrently).

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) or PHY 211 (may be taken concurrently).

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 students of natural (life) sciences, using algebra and vectors by triangles: E&M fields, circuits; ray optics, interference; atoms, nuclei.

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) or PHY 213 (may be taken concurrently)).

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 students of physical science or engineering, using calculus and vectors by components: force, energy, particle dynamics, rotation, fluids, waves, thermodynamics.

Pre-req: (MTH 229 (may be taken concurrently) or MTH 229H (may be taken concurrently)) and PHY 202 (may be taken concurrently).

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 students of physical science or engineering, using calculus and vectors by components: E&M fields, circuits; ray optics, interference; atoms, nuclei.

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.

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 opportunity to work with modern research equipment, with ample time to conduct experiments and/or investigate phenomena 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 280 Special Topics	1-4 Credit hours	PHY 330 Mechanics	3 Credit hours
Attributes: Natural Sciences		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.	
Grade Mode: Normal Grading Mode		Pre-req: MTH 231 and (PHY 203 or PHY 213).	
PHY 281 Special Topics	1-4 Credit hours	Attributes: Natural Sciences	
Attributes: Natural Sciences		Grade Mode: Normal Grading Mode	
Grade Mode: Normal Grading Mode		PHY 340 Scientific Computing	3 Credit hours
PHY 282 Special Topics	1-4 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.	
Attributes: Natural Sciences		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		Grade Mode: Normal Grading Mode	
PHY 283 Special Topics	1-4 Credit hours	PHY 350 Biological Physics	3 Credit hours
Attributes: Natural Sciences		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)	
Grade Mode: Normal Grading Mode		Pre-req: PHY 203 (may be taken concurrently) or PHY 213 (may be taken concurrently) and PHY 204.	
PHY 300 Electricity & Magnetism	3 Credit hours	Concurrent PR: PHY 203 or PHY 213	
A course including the study of electrostatics, magneto- statics, electromagnetic induction, introduction to Maxwell's equations and electromagnetic waves. 3 lec.		Attributes: Natural Sciences	
Pre-req: (PHY 203 or PHY 213) and MTH 231.		Grade Mode: Normal Grading Mode	
Attributes: Natural Sciences		PHY 360 Medical Physics	3 Credit hours
Grade Mode: Normal Grading Mode		Physics principles applied to devise methods for diagnostic and treatment of the human body. Will enhance writing skills and strategies. 2lec-2lab.	
PHY 302 Electricity & Magnetism II	3 Credit hours	Pre-req: (PHY 203 or PHY 213) and PHY 204.	
A study of Maxwell's equations and electromagnetic waves, radiation theory, optical phenomena, and electrodynamics. 3 lec.		Grade Mode: Normal Grading Mode	
Pre-req: PHY 300.		PHY 405 Optics Lab	2 Credit hours
Attributes: Natural Sciences		A course in optical experiments encompassing geometrical and physical optics. This course is to be taken with Physics 304.	
Grade Mode: Normal Grading Mode		Pre-req: PHY 304 (may be taken concurrently).	
PHY 304 Optics	3 Credit hours	Concurrent PR: PHY 304	
An intermediate course in geometrical and physical optics. 3 lec.		Attributes: Natural Sciences	
Pre-req: (PHY 203 or PHY 213) and (PHY 405 (may be taken concurrently) or PHY 505 (may be taken concurrently)).		Grade Mode: Normal Grading Mode	
Concurrent PR: PHY 405 or PHY 505		PHY 415 Electronics Lab	2 Credit hours
Attributes: Natural Sciences		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		Pre-req: PHY 314 (may be taken concurrently).	
PHY 308 Thermal Physics	3 Credit hours	Concurrent PR: PHY 314	
A study of thermodynamics, kinetic theory of gases, and an introduction to statistical mechanics 3 lec.		Attributes: Natural Sciences	
Pre-req: (PHY 203 or PHY 213) and MTH 231.		Grade Mode: Normal Grading Mode	
Attributes: Natural Sciences		PHY 420 Astrophysics	3 Credit hours
Grade Mode: Normal Grading Mode		A detailed study of core problems in Astrophysics such as orbital dynamics, radiation processes, stellar structure and evolution, galactic dynamics, and cosmology.	
PHY 314 Electronic Physics	3 Credit hours	Pre-req: PHY 213 with a minimum grade of D and MTH 231 with a minimum grade of D.	
A study of transistors, integrated circuits and their associated circuits. 3 lec.		Grade Mode: Normal Grading Mode	
Pre-req: PHY 203 or PHY 213 and PHY 415 (may be taken concurrently).		PHY 421 Modern Physics Lab	2 Credit hours
Concurrent PR: PHY 415		Laboratory exercises on modern physics topics encompassing both experiments of historic significance and current applications. To be taken with Physics 320, or equivalent.	
Attributes: Natural Sciences		Co-req: PHY 320	
Grade Mode: Normal Grading Mode		Attributes: Natural Sciences	
PHY 320 Intro Modern Physics	3 Credit hours	Grade Mode: Normal Grading Mode	
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 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.

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 Schrodinger 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.

Pre-req: PHY 442 or CHM 442.

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.

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)

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.

Attributes: Natural Sciences

Grade Mode: Normal Grading Mode

PHY 481 Special Topics**1-4 Credit hours**

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.

Attributes: Natural Sciences

Grade Mode: Normal Grading Mode

PHY 483 Special Topics**1-4 Credit hours**

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 experience 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)

Pre-req: PHY 491.

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
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		
<i>Core 1: Critical Thinking</i>		
FYS 100	First Yr Sem Critical Thinking	3
MTH 229  	Calculus/Analytic Geom I (CT)	5
Critical Thinking Course		3
<i>Core 2</i>		
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 	University Physics I	5
& PHY 202 	and General Physics I Laboratory (Core II Physical/Natural Science)	
<i>Additional University Requirements</i>		
Writing Intensive		3
Writing Intensive		3

Multicultural or International		3
PHY 491 	Capstone	2
& PHY 492 	and Capstone	
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 	Capstone	2
& PHY 492 	and Capstone	
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	Solid State Physics	
& PHY 444	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. 619)
- Bio Physics, Emphasis (p. 621)
- Medical Imaging, Emphasis (p. 623)
- Medical Physics, Emphasis (p. 625)


 - General Education Course

 - 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		
<i>Core 1: Critical Thinking</i>		
FYS 100	First Yr Sem Critical Thinking	3
MTH 229  	Calculus/Analytic Geom I (CT)	5
	Critical Thinking Course	3
<i>Core 2</i>		
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
<i>Additional University Requirements</i>		
	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
CIT 236	Data Structures	3
CIT 238	Algorithms	3
MTH 230  	Calculus/Analytic Geom II	4
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
CIT 236	Data Structures	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

CIT 238	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		
<i>Core 1: Critical Thinking</i>		
FYS 100	First Yr Sem Critical Thinking	3
MTH 229 	Calculus/Analytic Geom I (CT)	5
Critical Thinking Course		3
<i>Core 2</i>		
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 (Core II Natural/Physical Science)	4
<i>Additional University Requirements</i>		
PHY 350	Biological Physics (Writing Intensive)	3

Writing Intensive	3
Multicultural or International	3
PHY 491 🦋 Capstone & PHY 492 🦋 and Capstone	2
Major-Specific	
BSC 120 🦋 Principles of Biology	4
BSC 121 🦋 Principles of Biology	4
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

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	4
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	4
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		
<i>Core 1: Critical Thinking</i>		
FYS 100	First Yr Sem Critical Thinking	3
MTH 229  	Calculus/Analytic Geom I (CT)	5
Critical Thinking Course		3
<i>Core 2</i>		
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 	Human Physiology (Core II Natural/)	4
<i>Additional University Requirements</i>		
MI 411 	Transcultural Healthcare (WI)	3
Writing Intensive		3
Multicultural or International		3
PHY 491 	Capstone	2
& PHY 492 	and Capstone	
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 	Capstone	2
& PHY 492 	and Capstone (C)	
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	Human Anatomy	4
BSC 228 	Human Physiology	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	Human Anatomy	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 	Human Physiology	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		
<i>Core 1: Critical Thinking</i>		
FYS 100	First Yr Sem Critical Thinking	3
MTH 229  	Calculus/Analytic Geom I (CT)	5
	Critical Thinking Course	3
<i>Core 2</i>		
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 (Natural/Physical Science)	4
<i>Additional University Requirements</i>		
	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	4
BSC 121 	Principles of Biology	4
PHY Elective		3
PHY 350	Biological Physics (Recommended)	
MTH 230  	Calculus/Analytic Geom II	4
MTH 231 	Calculus/Analytic Geom III	4

Major Information

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- Course offerings and course attributes are subject to change each semester. Please consult each semester's schedule of courses for availability and attributes.
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- 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	4
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	4
Core II Fine Arts		3
Writing Intensive		3
Credit Hours		14
Total Credit Hours		120

Preparation for Professional Careers in the Health Care Professions

Contacts: Mr. Brian Morgan, Associate Dean and Chief Pre-Professional Health Care Advisor

Website: <http://www.marshall.edu/preprof> (<http://www.marshall.edu/preprof/>)

Even though many freshmen plan to major in pre-medicine, it is not, by itself, a major. It is a set of courses taken as part of a major, by which a student acquires a solid science background in preparation for applying to a professional school of choice. Students interested in the health care professions may choose any major, provided they complete the courses required for admission to any professional school to which they apply. Choosing a science major, however, gives the applicant the advantage of greater scientific breadth and depth of knowledge over non-science majors on the Medical College Admission Test (MCAT) and other professional school entrance exams. Because the courses required for admission to most professional schools often mirror the requirements for a biology or chemistry degree, many successful applicants choose one of those two majors, but many routes will prepare the student for the MCAT or other entrance exam and for the challenges of a professional health care curriculum.

Because most professional schools require a similar set of courses for admission, flexibility can be maintained in the selection of a career choice until the junior year. A typical applicant should plan to complete the following:

Code	Title	Credit Hours
BSC 120 🦋	Principles of Biology	4
BSC 121 🦋	Principles of Biology	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
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
Total Credit Hours		35

These courses should be regarded as a minimum. Completing these courses as part of a science major provides a sound science background. Additional required or recommended courses are subject to change, and vary among schools and programs. The responsibility lies with the student to become aware of all courses required and recommended by the professional schools to which he or she intends to apply and incorporate those courses into his or her curriculum. Elective courses can be chosen that simultaneously meet both the requirements for a major and admission to a professional school. With careful planning, the required and recommended courses can be combined with major coursework, progressing toward both admission to a professional school and graduation with a baccalaureate degree. Check with your assigned academic advisor frequently for guidance and assistance.

Admissions policies and procedures can vary considerably among professional health care schools. It is, therefore, strongly recommended that pre-professional students discuss their programs at least once each year with Mr. Brian Morgan, Associate Dean and Chief Pre-Professional Health Care Advisor, in Science Building 270. For current information, visit www.marshall.edu/preprof (<http://www.marshall.edu/preprof/>).

Pre-Health Care Professional Programs

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 not a comprehensive statement of what actually is required by every professional school.

Programs

- Pre-Dentistry (p. 641)
- Pre-Medicine (p. 641)
- Pre-Optometry (p. 641)
- Pre-Pharmacy (p. 642)
- Pre-Physical Therapy (p. 642)
- Pre-Veterinary Medicine (p. 643)

Courses

Biological Science

BSC 104 **Introduction to Biology** **4 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. 3 lec-2 lab.

Attributes: Natural Sciences, Core II Natural Sciences

Grade Mode: Normal Grading Mode

BSC 105 **Human Biology** **4 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. 3 lec-2 lab.

Attributes: Natural Sciences, Core II Natural Sciences

Grade Mode: Normal Grading Mode

BSC 120 **Principles of Biology** **4 Credit hours**

Study of basic biological principles common to all organisms through lecture and laboratory activities. Intended for science majors and pre-professional students. 3 lec-2 lab.

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 (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 130 with a minimum grade of C or MTH 132 with a minimum grade of C).

Attributes: Natural Sciences, Core II Natural Sciences

Grade Mode: Normal Grading Mode

BSC 120H **Principles of Biology Honors** **4 Credit hours**

Study of basic biological principles common to all organisms through lecture and laboratory activities. Chemistry of life, cell biology, metabolism, heredity, and evolution. Intended for science majors and pre-professional students. 3 lec-2-lab.

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 MTH 121 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).

Attributes: Honors, Natural Sciences, Core II Natural Sciences

Grade Mode: Normal Grading Mode

BSC 121 **Principles of Biology** **4 Credit hours**

A continuation of the study of basic biological principles common to all organisms. Intended for science majors and pre-professional students. 3 lec-2 lab.

Pre-req: BSC 120 with a minimum grade of C.

Attributes: Natural Sciences, Core II Natural Sciences

Grade Mode: Normal Grading Mode

BSC 227 **Human Anatomy** **4 Credit hours**

Principles 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. 3 lec-2 lab (ACT composite 19 or higher or 12 hrs. college credit, 100 level or above with minimum GPA of 2.3)

Pre-req: ACT Composite with a score of 19 or ACT Recalculated Composite with a score of 19 or SAT Mathematics Before Mar. 16 with a score of 480 or SAT MATH SECTION SCORE with a score of 510.

Attributes: Natural Sciences

Grade Mode: Normal Grading Mode

BSC 228 🌿 Human Physiology**4 Credit hours**

Fundamentals 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 Science. 3 lec-3 lab (PR: BSC 227 with grade C or better)

Pre-req: BSC 227 with a minimum grade of C.**Attributes:** Natural Sciences, Core II Natural Sciences**Grade Mode:** Normal Grading Mode**BSC 250 🌿 Microbiol & Human Disease****4 Credit hours**

Introduction to microbiology with emphasis on the role of microorganisms in the disease process.

Pre-req: BSC 227 with a minimum grade of C.**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.

Pre-req: BSC 121 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. (PR: BSC 121 with grade of C or better) 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.**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.

Attributes: Natural Sciences**Grade Mode:** Normal Grading Mode**BSC 310 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 121 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.**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.

Pre-req: BSC 121 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.**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-4 lab.

Pre-req: BSC 121 with a minimum grade of C.**Attributes:** Natural Sciences**Grade Mode:** Normal Grading Mode**BSC 365 Introductory Biochemistry****3 Credit hours**

A survey course including introduction to basic biochemical concepts, metabolic pathways, and bioenergetics. Pre: CHM327 or 356.

Pre-req: BSC 121 with a minimum grade of C and CHM 356 with a minimum grade of C or CHM 327 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 121 with a minimum grade of C.**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.

Pre-req: BSC 302 or BSC 320 or BSC 322 or BSC 324.**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 121 with a minimum grade of C.**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. 2 lec-2 lab and field.

Pre-req: BSC 121 with a minimum grade of C or BSC 105 with a minimum grade of B.

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.

Pre-req: (BSC 302 or BSC 320 or BSC 322 or BSC 324) and PHY 203 and PHY 204 and (MTH 225 or STA 225).

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.

Pre-req: (BSC 410 or PS 410 or IST 420).

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.

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.

Pre-req: BSC 302 or BSC 320 or BSC 322 or BSC 324.

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: Permission (consistent with MTH 518 description)

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.

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.

Pre-req: BSC 121 with a minimum grade of C and CHM 212 with a minimum grade of C.

Attributes: Natural Sciences

Grade Mode: Normal Grading Mode

BSC 421 Phycology**4 Credit hours**

Morphology, taxonomy, and techniques used in the study of freshwater algae with emphasis upon applications of ecological principles to current water quality problems. 2 lec-4 lab.

Pre-req: BSC 121 with a minimum grade of C or BSC 105 with a minimum grade of B.

Attributes: Natural Sciences

Grade Mode: Normal Grading Mode

BSC 422 Animal Physiology**4 Credit hours**

Physiological principles operating in cells, organs, and systems of animals, with a focus on vertebrate, including human, function. 3 lec-3 lab (PR: BSC 322, CHM 355, MTH 140 or 132 or 229; or permission)

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 424 Animal Parasitology**4 Credit hours**

Morphology, life histories, classification, and host relationships of common parasites. 2 lec-4 lab.

Pre-req: BSC 121 with a minimum grade of C.

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).

Pre-req: BSC 121 with a minimum grade of C.

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 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.

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 120 and (BSC 322 with a minimum grade of C or BSC 422 with a minimum grade of C or CHM 355 with a minimum grade of C).

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.

Pre-req: BSC 121 with a minimum grade of C and BSC 320 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. Pre-req: BSC 320. 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. Attributes: Natural Sciences Grade Mode: Normal Grading Mode
BSC 438 Emerging Infect 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 or BSC 320 or BSC 322 or BSC 324. Attributes: Natural Sciences Grade Mode: Normal Grading Mode	BSC 480 Special Topics 1-4 Credit hours 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. Grade Mode: Normal Grading Mode	BSC 481 Special Topics 1-4 Credit hours 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. Pre-req: BSC 302 with a minimum grade of C. 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 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 Pre-req: BSC 322 with a minimum grade of D or BSC 324 with a minimum grade of D. 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 450 Molecular Biology 3 Credit hours Advanced principles in molecular function emphasizing current research using recombinant DNA methodology. Pre-req: BSC 322. 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 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 486 Independent Study 1-4 Credit hours Attributes: Natural Sciences Grade Mode: Credit/No Credit Grade Only
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 <i>Drosophila</i> will illustrate current information. Pre-req: BSC 320 or BSC 322 or BSC 324. Attributes: Natural Sciences Grade Mode: Normal Grading Mode	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 An independent study involving a research project or intern-ship. Must be approved by Biological Science Faculty. 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. Grade Mode: Normal Grading Mode
	BSC 504 Cellular Physiology 4 Credit hours The physio-chemical nature of intracellular processes in plant and animal cells with emphasis on the functional significance of microscopic and submicroscopic structure and organization. 3 lec-3 lab. 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. 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. 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.
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.
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.
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.
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-Darwinian 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.
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, ANOVA, 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.
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.
Grade Mode: Normal Grading Mode
- BSC 522 Animal Physiology** 4 Credit hours
Physiological principles operating in cells, organs, and systems of animals, with a focus on vertebrate, including human, function.
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.
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).
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.
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.
Grade Mode: Normal Grading Mode
- BSC 538 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.
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.
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.
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)
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.
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 biodiversity, threats to habitats and species of concern, and 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 580 Special Topics** 1-4 Credit hours
(PR: Permission)
Grade Mode: Normal Grading Mode

BSC 581 Special Topics (PR: Permission) Grade Mode: Normal Grading Mode	1-4 Credit hours	BSC 631 Animal Ecology A study of population and behavior ecology; community dynamics and field techniques. 2 lec-4 lab. Grade Mode: Normal Grading Mode	4 Credit hours
BSC 582 Special Topics (PR: Permission) Grade Mode: Normal Grading Mode	1-4 Credit hours	BSC 640 Cell Bio & Biotechnology 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	3 Credit hours
BSC 583 Special Topics (PR: Permission) Grade Mode: Normal Grading Mode	1-4 Credit hours	BSC 644 Quantitative Ecology 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	3 Credit hours
BSC 585 Independent Study (PR: Permission) Grade Mode: Credit/No Credit Grade Only	1-4 Credit hours	BSC 649 Wetland Ecology Grade Mode: Normal Grading Mode	3 Credit hours
BSC 586 Independent Study (PR: Permission) Grade Mode: Credit/No Credit Grade Only	1-4 Credit hours	BSC 650 Special Problems By permission of adviser. Grade Mode: Credit/No Credit Grade Only	1-3 Credit hours
BSC 587 Independent Study (PR: Permission) Grade Mode: Credit/No Credit Grade Only	1-4 Credit hours	BSC 651 Special Problems By permission of adviser. Grade Mode: Credit/No Credit Grade Only	1-3 Credit hours
BSC 588 Independent Study (PR: Permission) Grade Mode: Credit/No Credit Grade Only	1-4 Credit hours	BSC 652 Special Problems By permission of adviser. Grade Mode: Credit/No Credit Grade Only	1-3 Credit hours
BSC 601 Vertebrate Embryology Vertebrate development based on frog, chick and pig embryos. 2 lec-4 lab. Grade Mode: Normal Grading Mode	4 Credit hours	BSC 660 Seminar I 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	2 Credit hours
BSC 608 Plant Growth & Developmnt 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	4 Credit hours	BSC 661 Topics in Biological Sciences In depth group discussion of current biological issues. Attributes: No Textbook Required Grade Mode: Normal Grading Mode	2 Credit hours
BSC 610 Adv Vert Morphology 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	3 Credit hours	BSC 662 Seminar II Oral presentation of individual topics. Pre-req: BSC 660. Attributes: No Textbook Required Grade Mode: Normal Grading Mode	1 Credit hour
BSC 620 Taxonomy Vascular Plants Field studies in the taxonomy of higher plants. (Limited to 4 hours credit per student). Co-req: BSC 622 Grade Mode: Normal Grading Mode	1-2 Credit hours	BSC 679 Problem Report Preparation and completion of a written report from experimental or field research in biological sciences. (PR: permission) Grade Mode: Normal Grading Mode	1-4 Credit hours
BSC 621 Taxonomy Vascular Plants Field studies in the taxonomy of higher plants. (Limited to 4 hours credit per student). Grade Mode: Normal Grading Mode	1-2 Credit hours	BSC 680 Special Topics Attributes: No Textbook Required Grade Mode: Normal Grading Mode	1-4 Credit hours
BSC 622 Taxonomy Vascular Plants Field studies in the taxonomy of higher plants. (Limited to 4 hours credit per student). Co-req: BSC 620 Grade Mode: Normal Grading Mode	1-2 Credit hours	BSC 681 Thesis By permission of adviser. Attributes: No Textbook Required Grade Mode: Normal Grading Mode	1-6 Credit hours
BSC 625 Advanced Physiology Lecture, current literature and introduction to research in physiological systems. 3 lec-3 lab. Grade Mode: Normal Grading Mode	4 Credit hours		

BSC 716 Adv Cell Phys Nurse Anesthesia 2 Credit hours

Study of structure and 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.

Pre-req: MTH 127 with a minimum grade of C or ACT Math with a score of 21 or Placement Chemistry with a score of 111 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 inter- actions with each other. Development of theories and applications of the principles of energetics, dynamics and structure. Intended primarily for science majors and pre-professional 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 CHM 111 with a minimum grade of C or Placement Chemistry with a score of 211) 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.

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.

Pre-req: Admitted Honors College with a score of 1.

Co-req: CHM 212

Attributes: Honors, No Textbook Required, 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.

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 laboratory conduct.

Pre-req: CHM 356 with a minimum grade of C.

Attributes: No Textbook Required, 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.

Attributes: No Textbook Required, 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.

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.

Pre-req: CHM 212 and (CHM 218 or CHM 218H).

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.

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.

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 and MTH 229.

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 or MTH 229H) and (PHY 211 or PHY 201).

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.

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.

Pre-req: CHM 327 or CHM 356.

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.

Pre-req: Admitted Honors College with a score of 1.

Attributes: Honors, No Textbook Required, 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.

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.

Attributes: No Textbook Required, 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.

Pre-req: CHM 307 with a minimum grade of C or CHM 357 with a minimum grade of C.

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. (PR: CHM 365 and either BSC 322 or 324).

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.

Attributes: No Textbook Required, 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.

Pre-req: CHM 490 or CHM 491.**Attributes:** No Textbook Required, Natural Sciences**Grade Mode:** Credit/No Credit Grade Only**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 D and (CHM 357 with a minimum grade of D or CHM 358 with a minimum grade of D).**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 reactants 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.

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).

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:** No Textbook Required, Natural Sciences**Grade Mode:** Normal Grading Mode**CHM 486 Independent Study****1-4 Credit hours****Attributes:** No Textbook Required, 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.

Pre-req: CHM 305.**Attributes:** Capstone Course, No Textbook Required, 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.

Pre-req: CHM 305.**Attributes:** Capstone Course, No Textbook Required, 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.

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.

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)

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.

Grade Mode: Normal Grading Mode

CHM 551 Biological Mass Spectrometry	4 Credit hours	CHM 630 Special Topics-Physical	1-3 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.		Offered on demand.	
Grade Mode: Normal Grading Mode		Grade Mode: Normal Grading Mode	
CHM 565 Adv Organic Chemistry I	3 Credit hours	CHM 631 Seminar	1 Credit hour
Studies of the dynamics of organic reactions with emphasis on mechanisms and stereo chemistry. 3 lec.		Attributes: No Textbook Required	
Grade Mode: Normal Grading Mode		Grade Mode: Normal Grading Mode	
CHM 566 Adv Organic Chemistry II	3 Credit hours	CHM 632 Seminar	1 Credit hour
A continuation of Chemistry 565 with emphasis on synthetic methods. 3 lec.		Attributes: No Textbook Required	
Pre-req: CHM 565.		Grade Mode: Normal Grading Mode	
Grade Mode: Normal Grading Mode		CHM 678 Applied Micr in Research	4 Credit hours
CHM 567 Intermediate Biochemistry	3 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 survey course including introduction to basic biochemical concepts, bioenergetics, and information transfer.		Grade Mode: Normal Grading Mode	
Pre-req: CHM 365 with a minimum grade of C or BSC 365 with a minimum grade of C.		CHM 679 Problem Report	3 Credit hours
Grade Mode: Normal Grading Mode		Preparation of a comprehensive written report on a topic in Chemistry of current importance. Registration only by permission of Department.	
CHM 580 Special Topics	1-4 Credit hours	Grade Mode: Normal Grading Mode	
Grade Mode: Normal Grading Mode		CHM 682 Research	1-12 Credit hours
CHM 581 Special Topics	1-4 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.	
Grade Mode: Normal Grading Mode		Grade Mode: Normal Grading Mode	
CHM 582 Special Topics	1-4 Credit hours	CHM 685 Independent Study	1-4 Credit hours
Grade Mode: Normal Grading Mode		Individual study of topics not offered in regularly scheduled classes.	
CHM 583 Special Topics	1-4 Credit hours	Grade Mode: Normal Grading Mode	
Grade Mode: Normal Grading Mode		CHM 686 Independent Study	1-4 Credit hours
CHM 585 Independent Study	1-4 Credit hours	Individual study of topics not offered in regularly scheduled classes.	
Attributes: No Textbook Required		Grade Mode: Normal Grading Mode	
Grade Mode: Normal Grading Mode		CHM 687 Independent Study	1-4 Credit hours
CHM 586 Independent Study	1-4 Credit hours	Individual study of topics not offered in regularly scheduled classes.	
Grade Mode: Normal Grading Mode		Grade Mode: Normal Grading Mode	
CHM 587 Independent Study	1-4 Credit hours	CHM 688 Independent Study	1-4 Credit hours
Grade Mode: Normal Grading Mode		Individual studt of topics not offered in regularly scheduled classes.	
CHM 588 Independent Study	1-4 Credit hours	Grade Mode: Normal Grading Mode	
Grade Mode: Normal Grading Mode		CHM 723 Chemistry and Physics	3 Credit hours
CHM 604 Theories Analytical Chem	2 Credit hours	Scientific priniciples 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.	
Offered on demand.		Grade Mode: Normal Grading Mode	
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.			
Pre-req: CHM 565.			
Grade Mode: Normal Grading Mode			
CHM 618 Kinetics	3 Credit hours		
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.			
Grade Mode: Normal Grading Mode			
CHM 629 Special Topics-Organic	1-3 Credit hours		
Offered on demand.			
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 or MTH 127 or MTH 130 or MTH 130E or MTH 229 or MTH 229H or MTH 203 or MTH 121B) or MTH 130H and PHY 101L (may be taken concurrently).

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.

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 vectors by triangles: force, energy, particle dynamics, rotation, fluids, waves, thermal phenomena.

Pre-req: (MTH 127 and MTH 122) or (MTH 130 and MTH 122) or MTH 132 or (MTH 140 and MTH 122) or MTH 229 or MTH 229H or MTH 140H and PHY 202 (may be taken concurrently).

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) or PHY 211 (may be taken concurrently).

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 students of natural (life) sciences, using algebra and vectors by triangles: E&M fields, circuits; ray optics, interference; atoms, nuclei.

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) or PHY 213 (may be taken concurrently)).

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 students of physical science or engineering, using calculus and vectors by components: force, energy, particle dynamics, rotation, fluids, waves, thermodynamics.

Pre-req: (MTH 229 (may be taken concurrently) or MTH 229H (may be taken concurrently)) and PHY 202 (may be taken concurrently).

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 students of physical science or engineering, using calculus and vectors by components: E&M fields, circuits; ray optics, interference; atoms, nuclei.

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.

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 opportunity to work with modern research equipment, with ample time to conduct experiments and/or investigate phenomena 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 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 282 Special Topics

1-4 Credit hours

Attributes: Natural Sciences

Grade Mode: Normal Grading Mode

PHY 283 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, 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.

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.

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.

Pre-req: PHY 203 or PHY 213 and PHY 415 (may be taken concurrently).

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.

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.

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**

Physics principles applied to devise methods for diagnostic and treatment of the human body. Will enhance writing skills and strategies. 2lec-2lab.

Pre-req: (PHY 203 or PHY 213) and PHY 204.

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 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).

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.

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 480 Special Topics 2-4 Credit hours 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. Attributes: Natural Sciences Grade Mode: Normal Grading Mode
PHY 442 Quantum Mechanics 3 Credit hours A study of waves and particles, the Schrodinger 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 482 Special Topics 1-4 Credit hours 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. 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. Pre-req: PHY 442 or CHM 442. 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 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 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 experience 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 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. Pre-req: PHY 203 or PHY 213 and MTH 231. Attributes: 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) Pre-req: PHY 491. Attributes: Capstone Course, No Textbook Required, 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 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 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) Pre-req: PHY 203 or PHY 213. Attributes: Natural Sciences 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	PHY 582 Special Topics	1-4 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	
Grade Mode: Normal Grading Mode		PHY 583 Special Topics	1-4 Credit hours
PHY 525 Solid State Physics	3 Credit hours	Grade Mode: Normal Grading Mode	
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.		PHY 585 Independent Study	1-4 Credit hours
Grade Mode: Normal Grading Mode		Grade Mode: Normal Grading Mode	
PHY 535 Computational Physics	3 Credit hours	PHY 586 Independent Study	1-4 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.		Attributes: No Textbook Required	
Grade Mode: Normal Grading Mode		Grade Mode: Normal Grading Mode	
PHY 542 Quantum Mechanics	3 Credit hours	PHY 587 Independent Study	1-4 Credit hours
Mathematical formalism of quantum mechanics, particles in potential fields, perturbation theory and other approximation methods, scattering, applications to simple systems. 3 lec.		Grade Mode: Normal Grading Mode	
Grade Mode: Normal Grading Mode		PHY 588 Independent Study	1-4 Credit hours
PHY 543 Quantum Mechanics II	3 Credit hours	Grade Mode: Normal Grading Mode	
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.		PHY 600 Electricity and Magnetism I	4 Credit hours
Grade Mode: Normal Grading Mode		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.	
PHY 544 Advanced Lab	2 Credit hours	Grade Mode: Normal Grading Mode	
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.		PHY 608 Statistical Mechanics	4 Credit hours
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.		The course introduces thermodynamics and statistical mechanics to graduate students of physics and other science and engineering disciplines as two complementary approaches to study physical properties of systems in equilibrium.	
Concurrent PR: PHY 525 and PHY 542		Grade Mode: Normal Grading Mode	
Grade Mode: Normal Grading Mode		PHY 610 Special and Gen Relativity	3 Credit hours
PHY 545 Math Methods of Physics	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.	
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.		Grade Mode: Normal Grading Mode	
Grade Mode: Normal Grading Mode		PHY 620 Modern Astrophysics I	3 Credit hours
PHY 546 MTH Methods of Physics II	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.	
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.		Grade Mode: Normal Grading Mode	
Pre-req: PHY 545.		PHY 625 Condensed Matter Physics	3 Credit hours
Grade Mode: Normal Grading Mode		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.	
PHY 547 Mechanics for Teachers	4 Credit hours	Grade Mode: Normal Grading Mode	
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)		PHY 630 Classical Mechanics	4 Credit hours
Grade Mode: Normal Grading Mode		Study of variational principles 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.	
PHY 580 Special Topics	2-4 Credit hours	Grade Mode: Normal Grading Mode	
Grade Mode: Normal Grading Mode		PHY 631 Seminar	1 Credit hour
PHY 581 Special Topics	1-4 Credit hours	Grade Mode: Normal Grading Mode	
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.

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

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

Pre-Dentistry Major

Code	Title	Credit Hours
Required Courses		
BSC 120 🌿	Principles of Biology	4
BSC 121 🌿	Principles of Biology	4
BSC 227 or BSC 310	Human Anatomy Comp Vertebrate Anatomy	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
CHM 355	Organic Chemistry I	3
CHM 356	Organic Chemistry II	3
CHM 361	Intro Organic Chm Lab	3
CHM 365	Introductory Biochemistry	3
Select one of the following:		3-6
ENG 101 🌿 & ENG 201 🌿	Beginning Composition and Advanced Composition	
ENG 200H 🌿	Texting the World (CT)	

ENG 201H 🌿	English Comp Honors	
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

Exam

DAT, during calendar year before anticipated start of dentistry school

Total Credit Hours 45-48

Pre-Medicine Major

Code	Title	Credit Hours
Required Courses		
BSC 120 🌿	Principles of Biology	4
BSC 121 🌿	Principles of 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
CHM 355	Organic Chemistry I	3
CHM 356	Organic Chemistry II	3
CHM 361	Intro Organic Chm Lab	3
CHM 365	Introductory Biochemistry	3
Select one of the following:		3-6
ENG 101 🌿 & ENG 201 🌿	Beginning Composition and Advanced Composition	
ENG 200H 🌿	Texting the World (CT)	
ENG 201H 🌿	English Comp Honors	
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
Social Science		6

Exam

MCAT, during calendar year before anticipated start of medical school

Total Credit Hours 47-50

Pre-Optometry Major

Code	Title	Credit Hours
Required Courses		
BSC 120 🌿	Principles of Biology	4
BSC 121 🌿	Principles of Biology	4
BSC 227	Human Anatomy	4
BSC 228 🌿	Human Physiology	4

Select one of the following:		4-5
BSC 250 🦋	Microbiol & Human Disease	
BSC 302 & BSC 304	Principles of Microbiology and Microbiology Lab	
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
CHM 355	Organic Chemistry I	3
CHM 356	Organic Chemistry II	3
CHM 361	Intro Organic Chm Lab	3
CHM 365	Introductory Biochemistry	3
Select one of the following:		3-6
ENG 101 🦋 & ENG 201 🦋	Beginning Composition and Advanced Composition	
ENG 200H 🦋	Texting the World (CT)	
ENG 201H 🦋	English Comp Honors	
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
Social Science		6
Statistics		3
Exam		
OAT, during calendar year before anticipated start of optometry school		
Total Credit Hours		65-69

Pre-Pharmacy Major




















Code	Title	Credit Hours
Required Courses		
BSC 120 🦋	Principles of Biology	4
BSC 121 🦋	Principles of Biology	4
BSC 227	Human Anatomy	4
BSC 228 🦋	Human Physiology	4
Select one of the following:		4-5
BSC 250 🦋	Microbiol & Human Disease	
BSC 302 & BSC 304	Principles of Microbiology and Microbiology Lab	
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
CHM 355	Organic Chemistry I	3
CHM 356	Organic Chemistry II	3
CHM 361	Intro Organic Chm Lab	3

Select one of the following:		3-6
ENG 101 🦋 & ENG 201 🦋	Beginning Composition and Advanced Composition	
ENG 200H 🦋	Texting the World (CT)	
ENG 201H 🦋	English Comp Honors	
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
Social Science		3
Statistics		3
Exam		
PCAT, during calendar year before start of pharmacy school		
Total Credit Hours		59-63

Pre-Physical Therapy Major

Code	Title	Credit Hours
Required Courses		
BSC 120 🦋	Principles of Biology	4
BSC 121 🦋	Principles of Biology	4
BSC 227	Human Anatomy	4
BSC 228 🦋	Human Physiology	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
Select one of the following:		3-6
ENG 101 🦋 & ENG 201 🦋	Beginning Composition and Advanced Composition	
ENG 200H 🦋	Texting the World (CT)	
ENG 201H 🦋	English Comp Honors	
MTH 127 🦋	College Algebra-Expanded (or higher)	5
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
Psychology		6
Statistics		3
Exam		
GRE, during calendar year before start of physical therapy school		
Total Credit Hours		51-54

Pre-Veterinary Medicine Major


Code	Title	Credit Hours
Required Courses		
BSC 120 	Principles of Biology	4
BSC 121 	Principles of Biology	4
BSC 302	Principles of Microbiology	3
BSC 304	Microbiology Lab	2
BSC 422	Animal Physiology	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
CHM 355	Organic Chemistry I	3
CHM 356	Organic Chemistry II	3
CHM 361	Intro Organic Chm Lab	3
CHM 365	Introductory Biochemistry	3
Select one of the following:		3
CMM 103 	Fund Speech-Communication	3-6
CMM 104H 	Honors in Speech Comm	
CMM 207 	Bus & Prof Communication	
Select one of the following:		3-6
ENG 101 	Beginning Composition	
& ENG 201 	and Advanced Composition	
ENG 200H 	Texting the World (CT)	
ENG 201H 	English Comp Honors	
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
PHY 203 	College Physics II	3
PHY 204 	General Physics 2 Laboratory	1
Humanities or Social Science		6
Statistics		3
Exam		
GRE or MCAT, during calendar year before start of veterinary school		
Total Credit Hours		65-68

Sustainability, 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 	Discussions in Envrion Science	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
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Environmental (choose 9 hours)

NRE 220 	Human Dimensions of Nat Res
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 of Nat Res
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 of Nat Res
NRRM 432	Wilderness/Protected Area Mgmt
NRRM 360	Tourism Planning & Management
NRRM 362	Ecotourism: Admin and Mgmt

GEO 406  Population GeographySOC 401  Population & Human Ecology

¹Natural 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. Nicki LoCascio, Dean; Dr. Brian A. Hoey, Associate Dean
Website: <http://www.marshall.edu/honors> (<http://www.marshall.edu/honors/>)

<https://www.marshall.edu/honors> (<http://www.marshall.edu/honors/>)
honorscollege@marshall.edu

Mission of the College

The Marshall University Honors College was established to provide educational opportunities for students of high ability. Honors students, each of whom is concurrently enrolled in a degree-granting college, are encouraged to raise personal expectations by pursuing enriched courses both within and beyond the regular curriculum. The program supports intellectual excellence and creativity by bringing together outstanding students and outstanding professors. 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

1. Entering freshmen 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 small, **interdisciplinary seminars** for upperclass students are taught as sections of HON 480 Special Topics by professors from different disciplines. 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.
4. Individual departments offer **honors sections of regular courses** that can be used to earn honors credits. These courses are identified in this catalog and the online schedule by an H following the course number.
5. **The Honors Option** allows an honors student enrolled in a non-honors course to receive honors credit. The student contracts with an instructor, no later than within the first two weeks 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

professor. H-option instructions and forms are available on the Honors College website.

6. Other Honors Experiences

The Honors College strongly encourages students to consider studying abroad as undergraduates. To that end, the college will waive up to 6 of the required general honors hours for study abroad 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.

Participation on the staff of the Honors College 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.

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 are found in the college policy handbook.

Yeager Scholars Program

The Yeager Scholars Program is named for United States Air Force Brigadier General (Retired) 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

Honors College admission criteria for entering freshman are enrollment in a bachelor's degree program, an ACT composite score of 26 or higher (SAT equivalent of 1230) on a single attempt, and a 3.5 high school Grade Point Average. Following their acceptance to Marshall University, qualified students are offered admission to the Honors College on a rolling basis. The deadline for accepting the Honors College offer of admission is stated in the offer letter. Qualified transfer students from other four-year honors colleges or programs or second-year Marshall students, having a 4.0 GPA at Marshall and a minimum 24 ACT (or 1160 SAT) from a single attempt, who have no more than 30 credits, may petition the dean for admission.

Academic Policies

To remain in good standing with the college, students must maintain a cumulative GPA of 3.30. Additional academic 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. Though these credits are in addition to their college and departmental major requirements, many courses substitute for general education requirements. 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, additional HON 480 courses, and/or other approved honors experiences.

Students must earn a C or better in a course to receive honors credit. The official transcript will state that the student has graduated with University Honors through the Honors College.

Faculty

Dr. Nicki LoCascio, Dean

Dr. Brian A. Hoey, Associate Dean

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/>).

Office of Outreach and Continuing Studies

Contacts: Dr. David J. Pittenger, Interim Associate Vice President for Outreach and Continuing Studies

The Marshall University Office of Outreach and Continuing Education (OCS) provides students with convenient access to college-level courses and programs with special emphasis on regional centers and adult learners.

With offices located on the Huntington and South Charleston campuses, OCS maintains regional centers at these locations:

- *Mid-Ohio Valley Center*, Point Pleasant
- *Southern Mountain Center* (on Southern West Virginia Community and Technical College campuses-Logan and Williamson)
- *Teays Valley Regional Center*, Teays Valley
- *Erma Byrd Higher Education Center*, Beckley

The Marshall University Office of Outreach and Continuing Education serves:

- Adult students who wish to complete a college degree;
- Students who live far from the main campuses;
- Military personnel and their families;
- High school students who meet the requirements to take college courses.

The OCS delivers educational content and services through a number of traditional and nontraditional formats, which include:

- College courses in the high school
- Online courses.

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

Southern Mountain Center

(on Southern West Virginia Community and Technical College campuses-Logan and Williamson)

304-746-2030

jsharrah@marshall.edu

Teays Valley Regional Center, Teays Valley

304-757-7223

www.marshall.edu/tvrc (<http://www.marshall.edu/tvrc/>)

tvrc@marshall.edu

Erma Byrd Higher Education Center, Beckley

304-256-0266, ext 1.

Programs

- Regents, B.A. (RBA) (p. 646)

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 are forgiven and disregarded in the calculation of the GPA required for graduation. (Note: This policy does not pertain to GPA calculated for special academic recognition, such as graduating with honors.)

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): 39
- 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.

General Education Requirements

36 semester hours (including applicable CEC general education hours) distributed among the following categories:

- Communications – 6 semester hours
- Natural sciences – 6 semester hours
- Mathematics/Computers – 3 semester hours
- Social Sciences – 6 semester hours
- Humanities – 6 semester hours
- 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.

- Computer-Related
- Writing-Related
- Humanities-Related
- Social Science-Related
- Education-Related



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.

Areas of Emphasis

- Anthropology, Emphasis (p. 647)
- Communication Studies, Emphasis (p. 647)
- Creative Writing in English, Emphasis (p. 648)
- Criminal Justice, Emphasis (p. 648)
- Digital Forensics, Emphasis (p. 648)
- Game Development, Emphasis (p. 648)
- Geography - GIScience, Emphasis (p. 648)
- Geography - Human, Emphasis (p. 648)
- Geography - Physical, Emphasis (p. 649)
- Geography, Emphasis (p. 649)
- Information Assurance, Emphasis (p. 649)
- Instructional Technology and Library Science, Emphasis (p. 649)
- Literature in English, Emphasis (p. 649)
- Military Science, Emphasis (p. 649)
- Political Science, Emphasis (p. 649)
- Preschool Development, Emphasis (p. 649)
- Psychology, Emphasis (p. 650)
- Religious Studies, Emphasis (p. 650)
- Sociology, Emphasis (p. 650)
- Web Application Development, Emphasis (p. 650)
- Women's Studies, Emphasis (p. 650)


Anthropology, Emphasis

 - 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


 - 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

15 hours of 300-400 level courses listed as Creative Writing by Marshall's Department of English.

Criminal Justice, Emphasis

 - 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

Digital Forensics, Emphasis

Code	Title	Credit Hours
CFS 261	Introduction to Linux	3
IST 264	Technology Foundations	3
DFIA 400	Intro to Digital Forensics	3
DFIA 440	Digital Evidence	4
DFIA 460	App Dig Evidence and eDisc	4
DFIA 462	Network Forensics	4
DFIA 467	Mobile Device Forensics	4
Total Credit Hours		25

Game Development, Emphasis


Code	Title	Credit Hours
CIT 163	Intro to Programming: C++	3
CIT 263	Web Programming I	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

Code	Title	Credit Hours
Select at least 18 hours from the following. At least 15 hours must be at the 3-400 level:		
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	Princ of GIS 2-Vector Analysis	
GEO 430	GIS-Raster Analysis	
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





 - 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:		
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

 - 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

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

Code	Title	Credit Hours
IST 264	Technology Foundations	3
CFS 261	Introduction to Linux	3
CFS 305	Open Source Intelligence	3
CIT 352	Network Protocols and Admin	3
DFIA 357	Network Penetration and Attack	4
DFIA 454	Network Defense	4
DFIA 461	Cyber Warfare	3
Total Credit Hours		23

Instructional Technology and Library Science, Emphasis

Code	Title	Credit Hours
ITL 350	Adv Digital Literacy Skills	3
ITL 365	Instructional Technology Apps	3
ITL 466	Prod of Instruct Tech Material	3
ITL 400	Intro to New Literacies	3

ITL 455	Pedagogy of New Literacies	3
Total Credit Hours		15

Literature in English, Emphasis

15 hours of 300-400 level courses listed as Literature by Marshall's Department of English.

Military Science, Emphasis

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


Any 15 hours of 300-400 level PSC courses.

Preschool Development, Emphasis

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


 - 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

Any 18 hours of 300-400 level Religious Studies courses. At least 6 hours must be taken through Marshall University.

Sociology, Emphasis

 - 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

Web Application Development, Emphasis

Code	Title	Credit Hours
CIT 163	Intro to Programming: C++	3
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
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

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

School of Pharmacy

Contacts: Dr. Gayle A. Brazeau, 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

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.

National Student Exchange

Please see description under "Learning Opportunities and Resources (p. 38)."

Tutoring Services

Please see description under "Learning Opportunities and Resources (p. 38)."

Week of Welcome (WOW)

Week of Welcome is an opportunity for freshmen 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/>).

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:

- Attendance on the Huntington campus.
- 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).

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.)

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.

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.

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.

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 near the end of this catalog. Students who do not meet the prerequisites for their required math course(s) 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 <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.

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.

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.

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 freshman 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), pursuing 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.
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.
Pre-req: ACC 215 with a minimum grade of D.
Grade Mode: Normal Grading Mode

ACC 280 Special Topics	1-4 Credit hours	ACC 360 Total Quality for Acctng	3 Credit hours
Grade Mode: Normal Grading Mode		A consideration of the accounting principles underlying Total Quality. Philosophies, tools and accounting techniques for achieving Total Quality will be covered.	
ACC 281 Special Topics	1-4 Credit hours	Grade Mode: Normal Grading Mode	
Grade Mode: Normal Grading Mode		ACC 364 Forensic & Investigative Acct	3 Credit hours
ACC 310 Acct for Entrepreneurs	3 Credit hours	This course introduces students to forensic accounting focusing on criminal litigation and investigations of fraud.	
Principles, concepts and problems or 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		Pre-req: ACC 311 with a minimum grade of C.	
Grade Mode: Normal Grading Mode		Grade Mode: Normal Grading Mode	
ACC 311 Intermediate Accounting I	3 Credit hours	ACC 365 Con Reg & Audit ISO-9000	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.		Learn to implement, document and audit a quality system for ISO-9000 standards and obtain certification recognized in nearly 90 countries.	
Pre-req: ACC 215 with a minimum grade of C and ACC 216 with a minimum grade of C.		Pre-req: ACC 360.	
Grade Mode: Normal Grading Mode		Grade Mode: Normal Grading Mode	
ACC 312 Intermediate Accounting II	3 Credit hours	ACC 412 Governmental Accounting	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.		A study of the use of accounting information in the financial management of governmental and non-profit entities.	
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.		Pre-req: ACC 311 with a minimum grade of C.	
Grade Mode: Normal Grading Mode		Grade Mode: Normal Grading Mode	
ACC 318 Cost Accounting I	3 Credit hours	ACC 414 Adv Accounting Problems	3 Credit hours
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.		Selected problems in advanced accounting principles and procedures.	
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).		Pre-req: ACC 312 with a minimum grade of C.	
Grade Mode: Normal Grading Mode		Grade Mode: Normal Grading Mode	
ACC 341 Acc Information Systems	3 Credit hours	ACC 418 Managerial Accounting	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.		The managerial approach to budgetary control.	
Pre-req: ACC 198 with a minimum grade of D and ACC 311 with a minimum grade of C.		Pre-req: ACC 318 with a minimum grade of C.	
Grade Mode: Normal Grading Mode		Grade Mode: Normal Grading Mode	
ACC 348 Federal Taxation	3 Credit hours	ACC 429 Auditing I	3 Credit hours
Problems and procedures of income tax accounting.		A study of the theory and procedures of auditing and the legal and social responsibilities of the auditor.	
Pre-req: ACC 215 with a minimum grade of C.		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		Grade Mode: Normal Grading Mode	
ACC 358 Manage Acc Hlth Care Mgt	3 Credit hours	ACC 430 Audit Theory & Research	3 Credit hours
A study of financial planning and control and discharge of financial management accountabilities in the Health Care Administration sector through problem solving and related functions of Accounting.		A critical examination of contemporary professional attestation theory and practice including a comprehensive review of AICPA statements on audit procedures.	
Pre-req: ACC 216.		Pre-req: ACC 429.	
Grade Mode: Normal Grading Mode		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.	
		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.

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 451 🌱 Accounting Theory**3 Credit hours**

An examination of accounting concepts, standards, rates, conventions, principles and practices with primary emphasis on the study of authoritative pronouncements comprising generally accepted accounting principles.

Pre-req: ACC 414.

Attributes: Capstone Course

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 Chairman.

Grade Mode: Normal Grading Mode

ACC 481 Special Topics**1-4 Credit hours**

Study of an advanced topic not normally covered in other courses. Accounting majors only, with permission of Department Chairman.

Grade Mode: Normal Grading Mode

ACC 482 Special Topics**1-4 Credit hours**

Study of an advanced topic not normally covered in other courses. Accounting majors only, with permission of Department Chairman.

Grade Mode: Normal Grading Mode

ACC 485 Independent Study**1-4 Credit hours**

Grade Mode: Normal Grading Mode

ACC 486 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.

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 312 with a minimum grade of C and ACC 318 with a minimum grade of C) and (ACC 414 (may be taken concurrently) with a minimum grade of D and ACC 429 (may be taken concurrently) with a minimum grade of D).

Concurrent PR: ACC 414 and ACC 429

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.

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.

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.

Grade Mode: Normal Grading Mode

ANT 322 Archaeology**3 Credit hours**

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.

Grade Mode: Normal Grading Mode

ANT 324 Archaeological Analysis**3 Credit hours**

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.

Grade Mode: Normal Grading Mode

ANT 326 Classical Archaeology**3 Credit hours**

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.

Grade Mode: Normal Grading Mode

ANT 361 Ethnographic Research**3 Credit hours**

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.

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.

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.

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.

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.

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: 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: 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.

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 covered in regularly scheduled courses.

PR: Six credit hours of anthropology or departmental 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.

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.

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.

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.

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)

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: 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.

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.

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.

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 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 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.

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.

Pre-req: ART 214 and ART 217.**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.

Grade Mode: Normal Grading Mode**ART 281 Special Topics****1-4 Credit hours**

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.

Grade Mode: Normal Grading Mode**ART 283 Special Topics****1-4 Credit hours**

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 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****0 Credit hours**

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 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: Credit/No Credit Grade Only**ART 301 Printmaking Processes****3 Credit hours**

Experiments in the media of intaglio, lithography, serigraphy, 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 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.

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.

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.

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 airbrush 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.

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.**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.

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.

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.**Attributes:** 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 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.

Pre-req: ART 301 and (ART 298 or ART 299).**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.

Pre-req: ART 315 or JMC 360.**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 and (ART 298 or ART 299).**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 Cast Metal Sculpture****3 Credit hours**

Several major art casting procedures will be studied and employed in the production of original sculptures. Emphasis will be placed on the lost wax process using ceramic shell molds.

Pre-req: ART 307 and (ART 298 or ART 299).**Grade Mode:** Normal Grading Mode**ART 332 Carved Sculpture****3 Credit hours**

Emphasis will be on the tools, materials and processes of subtractive sculpture. Both traditional and modern techniques will be explored in carving from a variety of woods, stones and other materials.

Pre-req: ART 307 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 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.

Pre-req: ART 307 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 335 Art Ed 2D-3D****3 Credit hours**

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.

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.

Pre-req: (ART 305 or ART 343) and (ART 298 or ART 299).

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.

Pre-req: (ART 305 or ART 343) and (ART 298 or ART 299).

Grade Mode: Normal Grading Mode

ART 350 Watercolor Painting**3 Credit hours**

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.

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.

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 resins, egg tempera, acrylics and oils.

Pre-req: ART 214 or ART 217.

Grade Mode: Normal Grading Mode

ART 360 Mixed Media**3 Credit hours**

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.

Pre-req: (ART 307 or ART 305) and (ART 298 or ART 299).

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.

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.

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.

Grade Mode: Normal Grading Mode

ART 406 Figure Drawing**3 Credit hours**

Practice in drawing from the posed human figure.

Pre-req: ART 218.

Grade Mode: Normal Grading Mode

ART 407 Tribal Arts**3 Credit hours**

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.

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.

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.

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.

Pre-req: ART 218 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.

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 324 or ART 325) and (ART 298 or ART 299).

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.

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 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.

Pre-req: ART 316 with a minimum grade of C.

Grade Mode: Normal Grading Mode

ART 442 Monumental Sculpture**3 Credit hours**

Emphasis will be on the planning and production of fountains, architectural reliefs and other large environmental sculptures.

Pre-req: ART 307 and (ART 298 or ART 299).

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.

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,

Pre-req: ART 298 or ART 299.

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.

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.

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.

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.

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.

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.

Pre-req: ART 308.

Grade Mode: Normal Grading Mode

ART 451 Advanced Ceramics**3 Credit hours**

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 316 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).

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.

Pre-req: ART 453 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.

Pre-req: ART 353 and (ART 298 or ART 299).

Grade Mode: Normal Grading Mode

ART 457 Figure Painting**3 Credit hours**

Painting the nude model using modern and classical methods.

Pre-req: ART 353 and (ART 298 or ART 299).

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.

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 or ART 299.

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.

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.

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.

Pre-req: ART 301 and (ART 298 or ART 299).

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.

Pre-req: ART 113 and ART 340.

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.

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.

Grade Mode: Normal Grading Mode

ART 472 Practicum	3 Credit hours	ART 487 Independent Study	1-4 Credit hours
To be used for learning activities that involve the application of previously learned processes, theories, systems or techniques.		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		Grade Mode: Normal Grading Mode	
ART 473 Practicum	3 Credit hours	ART 488 Independent Study	1-4 Credit hours
To be used for learning activities that involve the application of previously learned processes, theories, systems or techniques.		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		Grade Mode: Normal Grading Mode	
ART 475 Advanced Studio Sequence	3 Credit hours	ART 489 Graphic Design Portfolio	2 Credit hours
To be used to complete studio specialization and may be repeated. By permission only.		Pre-req: ART 316 with a minimum grade of C or AM 299 with a minimum grade of C.	
Grade Mode: Normal Grading Mode		Attributes: No Textbook Required	
ART 476 Advanced Studio Sequence	3 Credit hours	Grade Mode: Normal Grading Mode	
To be used to complete studio specialization and may be repeated. By permission only.		ART 490 Apprenticeship	1-3 Credit hours
Grade Mode: Normal Grading Mode		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.	
ART 477 Advanced Studio Sequence	3 Credit hours	Pre-req: ART 316 with a minimum grade of C.	
To be used to complete studio specialization and may be repeated. By permission only.		Attributes: No Textbook Required	
Attributes: No Textbook Required		Grade Mode: Normal Grading Mode	
Grade Mode: Normal Grading Mode		ART 491 Graphic Design Workshop	3 Credit hours
ART 478 Advanced Studio Sequence	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.	
To be used to complete studio specialization and may be repeated. By permission only.		Pre-req: ART 298 or ART 299.	
Attributes: No Textbook Required		Grade Mode: Normal Grading Mode	
Grade Mode: Normal Grading Mode		ART 497 Capstone Studio	3 Credit hours
ART 479 Advanced Studio Sequence	3 Credit hours	Students will research, plan and develop a substantial body of independently conceived artworks in consultation with studio art faculty.	
To be used to complete studio specialization and may be repeated. By permission only.		Pre-req: ART 390 with a minimum grade of C.	
Grade Mode: Normal Grading Mode		Grade Mode: Normal Grading Mode	
ART 480 Special Topics	1-4 Credit hours	ART 498 Senior Capstone Exhibition BFA	3 Credit hours
To be used for experimental courses. By permission only.		Students refine their creative visual productions and a supporting statement that culminate in a public exhibition.	
Attributes: No Textbook Required		Pre-req: ART 390 with a minimum grade of C.	
Grade Mode: Normal Grading Mode		Attributes: Capstone Course, No Textbook Required	
ART 481 Special Topics	1-4 Credit hours	Grade Mode: Normal Grading Mode	
To be used for experimental courses. By permission only.		ART 499 Senior Capstone Exhibition BA	1 Credit hour
Attributes: No Textbook Required		Students document and exhibit their production from courses completed during their senior year in their area (s) of concentration.	
Grade Mode: Normal Grading Mode		The exhibition should result from their academic as well as studio study.	
ART 482 Special Topics	1-4 Credit hours	Pre-req: ART 298 with a minimum grade of C or ART 299 with a minimum grade of C.	
To be used for experimental courses. By permission only.		Attributes: Capstone Course, No Textbook Required	
Grade Mode: Normal Grading Mode		Grade Mode: Credit/No Credit Grade Only	
ART 483 Special Topics	1-4 Credit hours		
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.			
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.			
Grade Mode: Normal Grading Mode			

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.

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

Biological Science (BSC)

🌱 - General Education Course

BSC 104 🌱 Introduction to Biology**4 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. 3 lec-2 lab.

Attributes: Natural Sciences, Core II Natural Sciences

Grade Mode: Normal Grading Mode

BSC 105 🌱 Human Biology**4 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. 3 lec-2 lab.

Attributes: Natural Sciences, Core II Natural Sciences

Grade Mode: Normal Grading Mode

BSC 120 🌱 Principles of Biology**4 Credit hours**

Study of basic biological principles common to all organisms through lecture and laboratory activities. Intended for science majors and pre-professional students. 3 lec-2 lab.

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 (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 130 with a minimum grade of C or MTH 132 with a minimum grade of C).

Attributes: Natural Sciences, Core II Natural Sciences

Grade Mode: Normal Grading Mode

BSC 120H 🌱 Principles of Biology Honors**4 Credit hours**

Study of basic biological principles common to all organisms through lecture and laboratory activities. Chemistry of life, cell biology, metabolism, heredity, and evolution. Intended for science majors and pre-professional students. 3 lec-2-lab.

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 MTH 121 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).

Attributes: Honors, Natural Sciences, Core II Natural Sciences

Grade Mode: Normal Grading Mode

BSC 121 🌱 Principles of Biology**4 Credit hours**

A continuation of the study of basic biological principles common to all organisms. Intended for science majors and pre-professional students. 3 lec-2 lab.

Pre-req: BSC 120 with a minimum grade of C.

Attributes: Natural Sciences, Core II Natural Sciences

Grade Mode: Normal Grading Mode

BSC 227 Human Anatomy**4 Credit hours**

Principles 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. 3 lec-2 lab (ACT composite 19 or higher or 12 hrs. college credit, 100 level or above with minimum GPA of 2.3)

Pre-req: ACT Composite with a score of 19 or ACT Recalculated Composite with a score of 19 or SAT Mathematics Before Mar. 16 with a score of 480 or SAT MATH SECTION SCORE with a score of 510.

Attributes: Natural Sciences

Grade Mode: Normal Grading Mode

BSC 228 🌱 Human Physiology**4 Credit hours**

Fundamentals 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 Science. 3 lec-3 lab (PR: BSC 227 with grade C or better)

Pre-req: BSC 227 with a minimum grade of C.

Attributes: Natural Sciences, Core II Natural Sciences

Grade Mode: Normal Grading Mode

BSC 250 🌱 Microbiol & Human Disease**4 Credit hours**

Introduction to microbiology with emphasis on the role of microorganisms in the disease process.

Pre-req: BSC 227 with a minimum grade of C.

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.

Pre-req: BSC 121 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. (PR: BSC 121 with grade of C or better) 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.

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.

Attributes: Natural Sciences

Grade Mode: Normal Grading Mode

BSC 310 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 121 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.

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.

Pre-req: BSC 121 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.

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-4 lab.

Pre-req: BSC 121 with a minimum grade of C.

Attributes: Natural Sciences

Grade Mode: Normal Grading Mode

BSC 365 Introductory Biochemistry**3 Credit hours**

A survey course including introduction to basic biochemical concepts, metabolic pathways, and bioenergetics. Pre: CHM327 or 356.

Pre-req: BSC 121 with a minimum grade of C and CHM 356 with a minimum grade of C or CHM 327 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 121 with a minimum grade of C.

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.

Pre-req: BSC 302 or BSC 320 or BSC 322 or BSC 324.

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 121 with a minimum grade of C.

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. 2 lec-2 lab and field.

Pre-req: BSC 121 with a minimum grade of C or BSC 105 with a minimum grade of B.

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.

Pre-req: (BSC 302 or BSC 320 or BSC 322 or BSC 324) and PHY 203 and PHY 204 and (MTH 225 or STA 225).

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.

Pre-req: (BSC 410 or PS 410 or IST 420).

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.

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.

Pre-req: BSC 302 or BSC 320 or BSC 322 or BSC 324.**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: Permission (consistent with MTH 518 description)

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.**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.

Pre-req: BSC 121 with a minimum grade of C and CHM 212 with a minimum grade of C.**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 121 with a minimum grade of C or BSC 105 with a minimum grade of B.**Attributes:** Natural Sciences**Grade Mode:** Normal Grading Mode**BSC 422 Animal Physiology****4 Credit hours**

Physiological principles operating in cells, organs, and systems of animals, with a focus on vertebrate, including human, function. 3 lec-3 lab (PR: BSC 322, CHM 355, MTH 140 or 132 or 229; or permission)

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 424 Animal Parasitology****4 Credit hours**

Morphology, life histories, classification, and host relationships of common parasites. 2 lec-4 lab.

Pre-req: BSC 121 with a minimum grade of C.**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).

Pre-req: BSC 121 with a minimum grade of C.**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 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.**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 120 and (BSC 322 with a minimum grade of C or BSC 422 with a minimum grade of C or CHM 355 with a minimum grade of C).**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.

Pre-req: BSC 121 with a minimum grade of C and BSC 320 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.

Pre-req: BSC 320.**Attributes:** Natural Sciences**Grade Mode:** Normal Grading Mode**BSC 438 Emerging Infect 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 or BSC 320 or BSC 322 or BSC 324.**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.

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.

Pre-req: BSC 302 with a minimum grade of C.**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

Pre-req: BSC 322 with a minimum grade of D or BSC 324 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 322.

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 *Drosophila* will illustrate current information.

Pre-req: BSC 320 or BSC 322 or BSC 324.

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.

Attributes: Natural Sciences

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**

An independent study involving a research project or intern-ship. Must be approved by Biological Science Faculty.

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.

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.

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 of physiological systems and their interactions with therapeutic devices, such as the artificial kidney.

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 Mtrl**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 Biofluids**3 Credit hours**

Introduction to the fundamentals of fluid mechanics and their application to biological, cardiovascular, respiratory and 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.

Attributes: Capstone Course

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.

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.

Pre-req: MTH 127 with a minimum grade of C or ACT Math with a score of 21 or Placement Chemistry with a score of 111 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 inter- actions with each other. Development of theories and applications of the principles of energetics, dynamics and structure. Intended primarily for science majors and pre-professional 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 CHM 111 with a minimum grade of C or Placement Chemistry with a score of 211) 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.

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.

Pre-req: Admitted Honors College with a score of 1.

Co-req: CHM 212

Attributes: Honors, No Textbook Required, 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.

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 laboratory conduct.

Pre-req: CHM 356 with a minimum grade of C.

Attributes: No Textbook Required, 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.

Attributes: No Textbook Required, 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.

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.

Pre-req: CHM 212 and (CHM 218 or CHM 218H).

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.

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.

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 and MTH 229.

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 or MTH 229H) and (PHY 211 or PHY 201).

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.

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.

Pre-req: CHM 327 or CHM 356.

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.
Pre-req: Admitted Honors College with a score of 1.
Attributes: Honors, No Textbook Required, 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.
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.
Attributes: No Textbook Required, 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.
Pre-req: CHM 307 with a minimum grade of C or CHM 357 with a minimum grade of C.
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. (PR: CHM 365 and either BSC 322 or 324).
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.
Attributes: No Textbook Required, 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.
Pre-req: CHM 490 or CHM 491.
Attributes: No Textbook Required, Natural Sciences
Grade Mode: Credit/No Credit Grade Only
- 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 D and (CHM 357 with a minimum grade of D or CHM 358 with a minimum grade of D).
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 reactants 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.
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).
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: No Textbook Required, Natural Sciences
Grade Mode: Normal Grading Mode
- CHM 486 Independent Study** **1-4 Credit hours**
Attributes: No Textbook Required, 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.

Pre-req: CHM 305.

Attributes: Capstone Course, No Textbook Required, 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.

Pre-req: CHM 305.

Attributes: Capstone Course, No Textbook Required, 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.

Concurrent PR: MTH 132

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.

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.

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.

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.

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: ENGR 318 (may be taken concurrently) with a minimum grade of D and CHM 212 (may be taken concurrently) with a minimum grade of D.

Concurrent PR: ENGR 318 and CHM 212

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.

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 or CE 312.

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.

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: CE 331.

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.

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).

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 481 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 students and faculty.

Grade Mode: Normal Grading Mode

CE 482 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 students and faculty.

Grade Mode: Normal Grading Mode

CE 483 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 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).

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.

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).

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.

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 rhetorical 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.

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 thematic 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.

Pre-req: ENG 101 or ENG 101P or ENG 200H or ENG 201H.

Attributes: Critical Thinking, Core II Humanities, Literature, Multicultural

Grade Mode: Normal Grading Mode

CL 250 🌿 Studies in Humanities (CT)**3 Credit hours**

An interdisciplinary course to introduce students to the elements of a humanistic education. (Same as Philosophy 150 and Religious Studies 150)

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, Multicultural

Grade Mode: Normal Grading Mode

CL 280 Special Topics**1-4 Credit hours**

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.

Grade Mode: Normal Grading Mode

CL 282 Special Topics**1-4 Credit hours**

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.

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.

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.

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, 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 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 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 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 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.
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.
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.
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.
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.
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.
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 or ENG 101P or ENG 200H or ENG 201H) and CMM 103.
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.
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.
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.
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 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 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 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

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.

Attributes: Critical Thinking

Grade Mode: Normal Grading Mode

CLS 200 Clinical Biochemistry 4 Credit hours

Theory and practice of clinical laboratory testing of serum, plasma, urine, body fluids in disease diagnosis. 3 lec-2 lab.

Grade Mode: Normal Grading Mode

CLS 210 Clinical Immunohematology 4 Credit hours

Theory of immune mechanisms in the body and applications for diagnostic testing and blood transfusion. 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 220 Clinical Microbiology 4 Credit hours

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 practice of clinical laboratory tests of red and white blood cells, as well as blood clotting. 3 lec-3 lab.

Grade Mode: Normal Grading Mode

CLS 255 Clinical Lab Problems 3 Credit hours

Case studies of instrumental and diagnostic problems encountered by the laboratory technician. 3 lec.

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 practice, performance of diagnostic tests of blood cells, urine, coagulation, and clinical microscopy under supervision. 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.

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.

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	CLS 472 Adv CLS Clinical Practicum I	1-3 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.		Advanced theory, practice, problem solving, and critical thinking in the clinical laboratory areas of clinical hematology and/or transfusion services.	
Grade Mode: Normal Grading Mode		Grade Mode: Normal Grading Mode	
CLS 320 Advanced Topics in CLS	3 Credit hours	CLS 473 Adv CLS Clinical Practicum II	1-3 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.		Advanced theory, practice, problem solving, and critical thinking in the clinical laboratory areas of clinical chemistry and/or clinical microbiology.	
Grade Mode: Normal Grading Mode		Grade Mode: Normal Grading Mode	
CLS 400 Adv Clinical Chemistry	2 Credit hours	CLS 480 Special Topics	1-4 Credit hours
Advanced theory, practice, problem solving, and critical thinking in the laboratory specialty of clinical chemistry.		Grade Mode: Normal Grading Mode	
Pre-req: CLS 200 with a minimum grade of C.		CLS 481 Special Topics	1-4 Credit hours
Grade Mode: Normal Grading Mode		Grade Mode: Normal Grading Mode	
CLS 410 Adv Clin Immunohematology	2 Credit hours	CLS 482 Special Topics	1-4 Credit hours
Advanced theory and on-campus laboratory practice in clinical hematology and blood banking. Students learn in-depth diagnostic work-up and problem solving involving patients with anemia, leukemia, and bleeding disorders.		Grade Mode: Normal Grading Mode	
Pre-req: CLS 272 with a minimum grade of C.		CLS 483 Special Topics	1-4 Credit hours
Grade Mode: Normal Grading Mode		Grade Mode: Normal Grading Mode	
CLS 420 Adv Clinical Microbiology	2 Credit hours	CLS 485 Independent Study	1-4 Credit hours
Advanced theory, practice, problem solving, and critical thinking in the laboratory specialty of diagnostic microbiology.		Attributes: No Textbook Required	
Grade Mode: Normal Grading Mode		Grade Mode: Normal Grading Mode	
CLS 430 Adv Clinical Hematology	3 Credit hours	CLS 486 Independent Study	1-4 Credit hours
Advanced theory in clinical hematology. Students learn in-depth diagnostic work-up problem solving involving patients with anemia, leukemia, and bleeding disorders.		Grade Mode: Normal Grading Mode	
Pre-req: CLS 230 with a minimum grade of C.		CLS 487 Independent Study	1-4 Credit hours
Grade Mode: Normal Grading Mode		Grade Mode: Normal Grading Mode	
CLS 460 Clinical Lab Mgt and Educ	3 Credit hours	CLS 488 Independent Study	1-4 Credit hours
Laboratory personnel and resource management, cost control, cost analysis, lab marketing, accreditation and CLS education practices.		Grade Mode: Normal Grading Mode	
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.		CLS 499 Seminar in Lab Medicine	2 Credit hours
Grade Mode: Normal Grading Mode		For Medical Technology students. Students and faculty present and critique articles from recent clinical laboratory-related publications.	
CLS 464 Lab Instrumen Inform Sys	3 Credit hours	Grade Mode: Normal Grading Mode	
Principles of instrumental electronics and data systems; interpretation of instrumental outputs, troubleshooting, computerized statistical methods. 2 lec- 2 lab.			
Grade Mode: Normal Grading Mode			
CLS 466 Diagnostic Physiology	3 Credit hours		
Pathologic aspects of laboratory medicine with case studies, diagnostic problem solving, student projects. 3 lec.			
Grade Mode: Normal Grading Mode			
CLS 468 🌱 Clinical Lab Research	3 Credit hours		
Directed independent research in a subject of practical interest in clinical laboratory practice. One of three courses, CLS 468, 471, 491, taken concurrently.			
Attributes: Capstone Course, No Textbook Required			
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	
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	
Grade Mode: Normal Grading Mode	

CD 241 Intro Communication Science	3 Credit hours	CD 427 Therapeutic Procedures II	3 Credit hours
A survey of the physical and psychophysical bases of communication with discussion of elementary communication models. (PR: CD 101 and Permission)		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		Grade Mode: Normal Grading Mode	
CD 322 Dev Speech Disorders	3 Credit hours	CD 427L TX Procedures II Lab	1 Credit hour
Introduction to developmental speech disorders; etiologies and symptoms; principles of assessment and treatment.		Observation and in-depth analysis of the clinical process. (PR: CD 426L, CR: CD 427)	
Grade Mode: Normal Grading Mode		Grade Mode: Credit/No Credit Grade Only	
CD 328 Developmental Lang Dis	3 Credit hours	CD 460 Basic Audiology	3 Credit hours
Introduction to theoretical bases of developmental language disorders; etiologies and symptoms; principles of assessment and treatment PR: CD 229 and CD 239		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		Grade Mode: Normal Grading Mode	
CD 330 Acq Comm Swallowing Dis	3 Credit hours	CD 461 Sign Language for SLP	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 basic signs and finger spelling. Overview of different sign systems.	
Grade Mode: Normal Grading Mode		Grade Mode: Normal Grading Mode	
CD 370L Field Exper: Sph & Lang	3 Credit hours	CD 463 Aural Rehabilitation	3 Credit hours
Experience with preschool age children; planning and implementing speech and language stimulation activities.		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		Grade Mode: Normal Grading Mode	
CD 401 Inquiry in CD	1-3 Credit hours	CD 470L Therapeutic Procedures Lab	2 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)		Guided and independent observation and analysis of the clinical process.	
Attributes: No Textbook Required		Attributes: No Textbook Required	
Grade Mode: Normal Grading Mode		Grade Mode: Credit/No Credit Grade Only	
CD 415 🌱 Prof Literacies for SLPs	3 Credit hours	CD 472 Clin Prac School Children	6 Credit hours
Investigation into contemporary understandings of literacy using current communication and information technologies and resources. PR: Admission to undergraduate program; permission of instructor.		Supervised clinical practice with school-aged children; fulfills student teaching requirements for West Virginia Certification as a Speech Language Pathologist.	
Attributes: Capstone Course		Pre-req: CD 468.	
Grade Mode: Normal Grading Mode		Grade Mode: Credit/No Credit Grade Only	
CD 420 🌱 Voice and Fluency Disorders	3 Credit hours	CD 480 Special Topics	1-4 Credit hours
Introduction to voice and fluency disorders; etiologies and symptoms; principles of assessment and treatment. (PR: CD 429 and CD 439)		Attributes: No Textbook Required	
Attributes: Writing Intensive		Grade Mode: Normal Grading Mode	
Grade Mode: Normal Grading Mode		CD 481 Special Topics	1-4 Credit hours
CD 424 Diagnosis Comm Disorders	3 Credit hours	Grade Mode: Normal Grading Mode	
Examination of assessment procedures for differential diagnosis of various communication disorders; a study of symptom complexes; interpretation of diagnostic data. (PR: CD 422, CD 422L CD 425m CD 420, CD 468, CD 460, and CD 430; CR: CD 424L)		CD 482 Special Topics	1-4 Credit hours
Grade Mode: Normal Grading Mode		Grade Mode: Normal Grading Mode	
CD 424L DX Processes Laboratory	1 Credit hour	CD 483 Special Topics	1-4 Credit hours
Observation and practice in evaluating individuals with communication disorders. [PR CD 426, CD 422L, CD 426L, permission of instructor, CR: CD 424]		Grade Mode: Normal Grading Mode	
Pre-req: CD 422L and CD 426L (may be taken concurrently) and CD 424 (may be taken concurrently).		CD 485 Independent Study	1-4 Credit hours
Concurrent PR: CD 426L and CD 424		Attributes: No Textbook Required	
Grade Mode: Normal Grading Mode		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 non-verbal interaction in interpersonal and public communication contexts.

Attributes: 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.

Attributes: 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.

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.

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.

Attributes: 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 learning.

Attributes: 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 responsible for viewing the series on the air and satisfying all course requirements 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.

Pre-req: CMM 103 or CMM 104H or CMM 207 or YGS 161 or IST 101.

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.

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.

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.

Pre-req: CMM 103 or CMM 104H or CMM 207 or YGS 161 or IST 101.

Grade Mode: Normal Grading Mode

CMM 310 Argumentation & Debate 3 Credit hours

Basic principles of argument; practice in discussion and debate.

Recommended but not a prerequisite for intercollegiate 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.

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.

Pre-req: CMM 103 or CMM 104H or CMM 207 or YGS 161 or IST 101.

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.

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, decision-making.

Pre-req: CMM 103 or CMM 104H or CMM 207 or YGS 161 or IST 101.

Grade Mode: Normal Grading Mode

CMM 320 Oral Interpretation Lit**3 Credit hours**

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 or CMM 104H or CMM 207 or YGS 161 or IST 101.

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.

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 Communicatn**3 Credit hours**

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.

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.

Pre-req: CMM 103 or CMM 207 or CMM 104H.

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.

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.

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.

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.

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 of films 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.

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.

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.

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.

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.**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.

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 or CS 110 or CS 110H.**Grade Mode:** Normal Grading Mode**CYBR 310 Introduction to Cryptography****3 Credit hours**

This course covers the basic aspects of modern cryptography, 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.

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: CYBR 320.**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 or CS 330.**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 may 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 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: CYBR 330.**Attributes:** Capstone Course**Grade Mode:** Normal Grading Mode

Computer Information Tech (CIT)

🌱 - General Education Course

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 236 Data Structures****3 Credit hours**

Covers fundamental topics of information technology including the concepts of object-orientation, linear data structures, data representation, data manipulation algorithms and their applications, and project participations.

Pre-req: CIT 163 or IST 163.**Grade Mode:** Normal Grading Mode**CIT 238 Algorithms****3 Credit hours**

Covers algorithm-design methods, algorithm performance analysis, and optimization techniques. Covers algorithm applications used in solving frequently occurring problems, such as pattern matching, data compression, searching, and sorting.

Pre-req: CIT 236 or IST 236.**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 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 Grade Mode: Normal Grading Mode	1-4 Credit hours	CIT 365 Database Management 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	3 Credit hours
CIT 281 Special Topics Grade Mode: Normal Grading Mode	1-4 Credit hours		
CIT 282 Special Topics Grade Mode: Normal Grading Mode	1-4 Credit hours		
CIT 283 Special Topics Grade Mode: Normal Grading Mode	1-4 Credit hours		
CIT 285 Independent Study 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	1-4 Credit hours	CIT 366 DB Design/Reporting Introduction to database design, data modeling techniques, advanced queries, and database manipulation concepts. This course helps develop conceptual and organizational skills for planning effective formal database reports. Pre-req: IST 365 or CIT 365. Grade Mode: Normal Grading Mode	3 Credit hours
CIT 313 Web Programming II The second semester of 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. Grade Mode: Normal Grading Mode	3 Credit hours	CIT 410 Electronic Commerce 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	3 Credit hours
CIT 332 Software Engineering I 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	3 Credit hours	CIT 413 iOS Development 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	3 Credit hours
CIT 333 Software Engineering II 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 or IST 332. Grade Mode: Normal Grading Mode	3 Credit hours	CIT 414 Android Development 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. Attributes: No Textbook Required Grade Mode: Normal Grading Mode	3 Credit hours
CIT 338 CAD and Terra Modeling Introduction to CAD 2D and 3D principles set in a land modeling format. Data sets will be used to model 3D contours of land and river beds. Pre-req: IST 423. Grade Mode: Normal Grading Mode	3 Credit hours	CIT 416 Advanced Web Programming 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 410 with a minimum grade of D. Grade Mode: Normal Grading Mode	3 Credit hours
CIT 340 Game Development I:2D 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	3 Credit hours	CIT 440 Computer Graphics for Gaming 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 or CS 120. Grade Mode: Normal Grading Mode	3 Credit hours
CIT 352 Network Protocols and Admin 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 or IST 163 or CS 110. Grade Mode: Normal Grading Mode	3 Credit hours	CIT 441 Game Development II:3D 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 or IST 360. Attributes: No Textbook Required Grade Mode: Normal Grading Mode	3 Credit hours

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 or IST 439.**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: 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.

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.

Attributes: Critical Thinking**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**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 or CS 110H.**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 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 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 hashing, 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 and MTH 220 (may be taken concurrently). Concurrent PR: MTH 220 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 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 and (MTH 229 or MTH 229H) and MTH 220 (may be taken concurrently). Concurrent PR: MTH 220 Grade Mode: Normal Grading Mode	CS 330 Operating Systems 3 Credit hours Modern operating systems design and implementation: multi-tasking and time sharing, concurrency 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 280 Special Topics 1-4 Credit hours EMERGING TOPICS IN COMPUTER SCIENCE. Grade Mode: Normal Grading Mode	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. Pre-req: MTH 220 and CS 210. Grade Mode: Normal Grading Mode
CS 281 Special Topics 1-4 Credit hours EMERGING TOPICS IN COMPUTER SCIENCE. 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 282 Special Topics 1-4 Credit hours EMERGING TOPICS IN COMPUTER SCIENCE. 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. Grade Mode: Normal Grading Mode
CS 283 Special Topics 1-4 Credit hours EMERGING TOPICS IN COMPUTER SCIENCE. 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 300 Programming Languages 3 Credit hours Pre-req: CS 210. 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 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. 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. 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.**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.**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.

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.**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 or CS 340.**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 approval of the internship director, who is a member of the computer science faculty.

Pre-req: CS 300 or CS 215.**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 and CS 410.**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, psychosocial 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)

Grade Mode: Normal Grading Mode

COUN 425 Counseling Theory & Tech

3 Credit hours

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.

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.

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.

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 experiences 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.

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.

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.

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.

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.

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.

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.

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.

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.

Grade Mode: Normal Grading Mode**CJ 281 Special Topics****1-4 Credit hours**

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.

Grade Mode: Normal Grading Mode**CJ 283 Special Topics****1-4 Credit hours**

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 312 Criminal Investigation****3 Credit hours**

Investigation methodology, realtions of the detective with other police divisions; modus operandi; sources of information; surveillance, interrogation, follow-up procedures.

Pre-req: CJ 211.**Grade Mode:** Normal Grading Mode**CJ 314 Crime Scene Investigation****3 Credit hours**

This course exposes students to crime scene evidence, collection techniques, and the various uses of modern technology in preserving and analyzing evidence.

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.

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.

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.

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.

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.

Pre-req: CJ 231.**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.**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.
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**
Functions and activities of police agencies. Police department 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 culture 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 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, competency 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.
Grade Mode: Normal Grading Mode
- CJ 433 Correctional Administration** **3 Credit hours**
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.
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.
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.
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.
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.
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.

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.

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.

Grade Mode: Normal Grading Mode

CJ 490 Internship**1-6 Credit hours**

The placement of an individual into a criminal justice agency (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 Early 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.

Pre-req: Admitted to Teacher ED with a score of 4 and CISP 421 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 disabilities. 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.

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.

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.

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.

Pre-req: CI 101 with a minimum grade of D 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 3 Credit hours

Introduction to teaching science in elementary schools emphasizing inquiry-based learning practices and effective research-based teaching strategies. Activities include seminars, discussions and experimentation using learning modules targeting Earth and Space and Sciences.

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.

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.

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 and CI 446 (may be taken concurrently) with a minimum grade of C.

Concurrent PR: CI 446

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.

Pre-req: Admitted to Teacher ED with a score of 4.

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.

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.

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.

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.

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 seminars 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 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.

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.

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

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 and CI 343 (may be taken concurrently) with a minimum grade of C.

Concurrent PR: CI 343

Grade Mode: Normal Grading Mode

CI 447 Inte Read/Lang Arts: Elem Edu	3 Credit hours	CI 464 Staff Development	1-3 Credit hours
General K-6 course with emphasis on instructional standards and objectives, methods, and materials for Reading, Language Arts and Social Studies.		Attributes: Not Degree Applicable	
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 and CI 321 with a minimum grade of C.		Grade Mode: Credit/No Credit Grade Only	
Co-req: CI 471		CI 470 Level II Clinical Exp	0 Credit hours
Grade Mode: Normal Grading Mode		A Level II Clinical Experience teaching in an elementary or secondary public school. An opportunity to put theory into classroom practice.	
CI 448 Science Methods: Elem Edu	3 Credit hours	Pre-req: Admitted to Teacher ED with a score of 5.	
General K-6 course with emphasis on instructional standards and objectives, methods and materials for mathematics and science.		Co-req: CI 415	
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 PS 121 with a minimum grade of C and PS 122 with a minimum grade of C and CI 248 with a minimum grade of C.		Grade Mode: Credit/No Credit Grade Only	
Grade Mode: Normal Grading Mode		CI 471 Level II Clinical Exp	0 Credit hours
CI 449 Instr & Clarm Mgt Sec Ed	3 Credit hours	A Level II Clinical Experience teaching in an elementary school. An opportunity to put theory into classroom practice.	
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 5.	
Pre-req: Admitted to Teacher ED with a score of 4.		Co-req: CI 447	
Grade Mode: Normal Grading Mode		Grade Mode: Credit/No Credit Grade Only	
CI 450 🌱 Stu Teach Secondary Ed	4-12 Credit hours	CI 472 Level II Clinical Exp	0 Credit hours
All-day teaching under supervision in cooperating schools; periodic seminars conducted by University faculty accompany student teaching.		A Level II Clinical Experience teaching in an elementary or secondary public school. An opportunity to put theory into classroom practice.	
Attributes: Capstone Course		Pre-req: Admitted to Teacher ED with a score of 5.	
Grade Mode: Credit/No Credit Grade Only		Grade Mode: Credit/No Credit Grade Only	
CI 452 🌱 Mce: Supervised Stu Teach	4-6 Credit hours	CI 480 Special Topics	1-4 Credit hours
All-day student teaching in cooperating middle schools; periodic seminars conducted by University faculty accompany student teaching.		Grade Mode: Normal Grading Mode	
Attributes: Capstone Course		CI 481 Special Topics	1-4 Credit hours
Grade Mode: Credit/No Credit Grade Only		Grade Mode: Normal Grading Mode	
CI 455 🌱 Student Teaching II Sec Ed	4-6 Credit hours	CI 482 Special Topics	1-4 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.		Grade Mode: Normal Grading Mode	
Attributes: Capstone Course		CI 483 Special Topics	1-4 Credit hours
Grade Mode: Credit/No Credit Grade Only		Grade Mode: Normal Grading Mode	
CI 459 🌱 Multicult Influence in Ed	3 Credit hours	CI 485 Independent Study	1-4 Credit hours
Multicultural education with an emphasis on methods and materials for teaching students from diverse cultural backgrounds.		Grade Mode: Normal Grading Mode	
Attributes: Multicultural		CI 486 Independent Study	1-4 Credit hours
Grade Mode: Normal Grading Mode		Grade Mode: Normal Grading Mode	
CI 460 Staff Development	1-3 Credit hours	CI 487 Independent Study	1-4 Credit hours
Attributes: Not Degree Applicable		Grade Mode: Normal Grading Mode	
Grade Mode: Credit/No Credit Grade Only		CI 488 Independent Study	1-4 Credit hours
CI 461 Staff Development	1-3 Credit hours	Grade Mode: Normal Grading Mode	
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			

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.	
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.

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 exfiltrate data from computers and networks.

Pre-req: CFS 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.

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 from 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.

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 and CFS 400 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.

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.

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 200 with a minimum grade of D and 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.

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 and CIT 357 with a minimum grade of D and CFS 261 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 200 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 460 with a minimum grade of D and CFS 462 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.

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.

Grade Mode: Normal Grading Mode

DAN 210 Tap Dance**2 Credit hours**

Technique, styles, and 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.

Grade Mode: Normal Grading Mode

DAN 270 Practicum**1 Credit hour**

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.

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.

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.

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.

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.

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.

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.

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.

Pre-req: DTS 210 with a minimum grade of D.

Grade Mode: Normal Grading Mode

DTS 210 Nutrition**3 Credit hours**

Principles of human nutrition and their application in planning and evaluating diets 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.

Pre-req: DTS 202.

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.

Pre-req: DTS 202 and BSC 250.

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.

Pre-req: DTS 301.

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.

Pre-req: DTS 201.

Grade Mode: Normal Grading Mode

DTS 314 Nutrition & Diet Therapy**3 Credit hours**

Principles of human nutrition and their application to healthy individuals and to the treatment and prevention of disease.

Pre-req: (CHM 203 or CHM 205 or CHM 211) and BSC 228.

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.

Pre-req: (DTS 201 with a minimum grade of D or DTS 210 with a minimum grade of D) and BSC 227 with a minimum grade of D.

Grade Mode: Normal Grading Mode

DTS 403 Advanced Nutrition**3 Credit hours**

An in-depth study of digestion, absorption, and metabolism of macronutrients; maintaining homeostasis in the body is also discussed in relationship to fluid, electrolyte, and acid-base balance.

Pre-req: DTS 320 and BSC 227.

Grade Mode: Normal Grading Mode

DTS 409 Nutrition in Community**3 Credit hours**

Nutritional needs of communities and the dietitian's role in addressing them are identified, and community nutrition programs are closely examined.

Pre-req: (DTS 201 with a minimum grade of D or DTS 210 with a minimum grade of D) and DTS 202 with a minimum grade of D.

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.

Grade Mode: Normal Grading Mode

DTS 468 Chemistry of Food**3 Credit hours**

Experimental study of chemical and physical factors affecting food preparation.

Pre-req: DTS 202.

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.

Pre-req: DTS 320 (may be taken concurrently) and BSC 228.

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.

Pre-req: DTS 469.

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.

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 Forensics Infor Assura (DFIA)

DFIA 200 Introduction to DFIA**3 Credit hours**

This three hour course is intended to introduce students to the common technology, procedures, and hardware in Digital Forensics and Information Assurance.

Grade Mode: Normal Grading Mode

DFIA 357 Network Penetration and Attack**4 Credit hours**

Students will explore tools and techniques used to penetrate, exploit and exfiltrate data from computers and networks.

Grade Mode: Normal Grading Mode

DFIA 400 Intro to Digital Forensics**3 Credit hours**

This course teaches students 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.

Pre-req: IST 264.

Grade Mode: Normal Grading Mode

DFIA 405 OSINT Practicum I**3 Credit hours**

Students will learn how to use free online resources that can aid investigators in searching the Internet for resources that can be applied to domestic and international investigations.

Pre-req: DFIA 307 with a minimum grade of D.

Grade Mode: Normal Grading Mode

DFIA 406 OSINT Practicum II**3 Credit hours**

Pre-req: DFIA 305 with a minimum grade of D and DFIA 405 with a minimum grade of D.

Grade Mode: Normal Grading Mode

DFIA 411 Collegiate Cyber Comp II**3 Credit hours**

This course allows students continued participation and team leadership in the National Cyber League (NCL) capture the flag challenges and proactive gymnasium labs.

Pre-req: DFIA 410 with a minimum grade of D.

Grade Mode: Normal Grading Mode

DFIA 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 from hosts, networks, and enterprise environments.

Pre-req: DFIA 400 or IST 449.

Grade Mode: Normal Grading Mode

DFIA 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 exploit modern software and operating systems.

Pre-req: (CIT 352 or IST 362) and (DFIA 357 or IST 457).

Grade Mode: Normal Grading Mode

DFIA 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: DFIA 400 or IST 449.

Grade Mode: Normal Grading Mode

DFIA 445 Mobile and Web Pen Testing**4 Credit hours**

This course is designed to teach students the advanced skills and techniques required to test mobile and web applications.

Pre-req: IST 264 and (CIT 352 or IST 362).

Grade Mode: Normal Grading Mode

DFIA 448 Forensic Image & Video**3 Credit hours**

Course will introduce principles of forensic image and video analysis and their application to digital forensics. Practical forensic enhancement and analysis techniques, including how to prepare forensically-sound exhibits, are covered.

Grade Mode: Normal Grading Mode

DFIA 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.

Grade Mode: Normal Grading Mode

DFIA 460 App Dig Evidence and eDisc**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: DFIA 400 or IST 449.

Attributes: No Textbook Required

Grade Mode: Normal Grading Mode

DFIA 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.

Grade Mode: Normal Grading Mode

DFIA 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: DFIA 261 and (DFIA 400 or IST 449) and (CIT 352 or IST 362).

Grade Mode: Normal Grading Mode

DFIA 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: CIT 352 or IST 362.

Grade Mode: Normal Grading Mode

DFIA 467 Mobile Device Forensics**4 Credit hours**

Pre-req: IST 264 and (DFIA 400 or IST 449).

Grade Mode: Normal Grading Mode

DFIA 470 Internship**3 Credit hours**

Internship in Digital Forensics and Information Assurance

Grade Mode: Normal Grading Mode

DFIA 480 Special Topics in DFIA**1-6 Credit hours**

Special Topics in Digital Forensics and Information Assurance.

Grade Mode: Normal Grading Mode

DFIA 490 Capstone**3 Credit hours**

This course reinforces and assesses the student's ability to apply core digital forensic and information assurance knowledge and skills in a series of realistic practical exercises.

Pre-req: (DFIA 460 with a minimum grade of D or IST 460 with a minimum grade of D) and (DFIA 467 (may be taken concurrently) with a minimum grade of D or IST 467 (may be taken concurrently) with a minimum grade of D) and (DFIA 357 with a minimum grade of D or IST 457 with a minimum grade of D).

Concurrent PR: DFIA 467 or IST 467

Attributes: No Textbook Required

Grade Mode: Credit/No Credit Grade Only

DFIA 491 Research**3 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.

Pre-req: (DFIA 460 or IST 447) and (DFIA 467 or IST 467).

Grade Mode: Normal Grading Mode

Digital Humanities (DH)

 - General Education Course

DH 201  Intro to Digital Humanities**3 Credit hours**

Examines the entangled relationships between human cultures and digital technologies, and uses those technologies to explore topics in the humanities.

Attributes: Core II Humanities

Grade Mode: Normal Grading Mode

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.

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.

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.

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.

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.

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.

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.

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.

Pre-req: ECE 303.

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.

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.

Pre-req: ECE 303.

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.

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.

Pre-req: ECE 303.

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. Permission required.

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.

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.

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.

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.

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)

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.

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.

Pre-req: ECN 250 or ECN 200.

Grade Mode: Normal Grading Mode

ECN 280 Special Topics**1-4 Credit hours**

Grade Mode: Normal Grading Mode

- ECN 281 Special Topics** **1-4 Credit hours**
Grade Mode: Normal Grading Mode
- ECN 282 Special Topics** **1-4 Credit hours**
Grade Mode: Normal Grading Mode
- ECN 283 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 253 or ECN 241) and (ECN 250 or ECN 242 or ECN 200).
Attributes: American Institutions
Grade Mode: Normal Grading Mode
- ECN 326 Int Macroeconomic Analysis** **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.
Pre-req: (ECN 200 or ECN 250) and ECN 253.
Attributes: American Institutions
Grade Mode: Normal Grading Mode
- ECN 328 Int Microeconomic Analysis** **3 Credit hours**
 Micro-economic theories of the production and pricing of goods and services, payments to the factors of production.
Pre-req: (ECN 200 or ECN 250) and ECN 253.
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.
Grade Mode: Normal Grading Mode
- ECN 408 Comparative Econ Systems** **3 Credit hours**
 Marxism, capitalism, communism, facism and socialism considered as theories, movements and actual political economies.
Pre-req: (ECN 200 or ECN 250 or ECN 242) and ECN 253.
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.
Pre-req: (ECN 250 or ECN 242 or ECN 200) and (ECN 253 or ECN 241).
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.
Pre-req: (ECN 253 or ECN 241) and (ECN 250 or ECN 242 or ECN 200).
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.
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 or MGT 218E or MGT 318 or MTH 225 or STA 225 or IST 130 or EDF 417 or PSY 223 or SOC 345) and (ECN 253 or ECN 241).
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 200 or ECN 250 or ECN 242).
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 200 or ECN 250 or ECN 242) and (ECN 253 or ECN 241).
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.
Pre-req: ECN 326 and ECN 328 and ECN 423.
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)
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.
Pre-req: (ECN 200 or ECN 250 or ECN 242) and (ECN 253 or ECN 241).
Grade Mode: Normal Grading Mode

ECN 481 Special Topics**1-4 Credit hours**

Members of the department may teach, when necessary, any economics subject not listed among the current course offerings.
Pre-req: (ECN 250 or ECN 242 or ECN 200) and (ECN 253 or ECN 241).
Grade Mode: Normal Grading Mode

ECN 482 Special Topics**1-4 Credit hours**

Members of the department may teach, when necessary, any economics subject not listed among the current course offerings.
Pre-req: (ECN 250 or ECN 242 or ECN 200) and (ECN 253 or ECN 241).
Grade Mode: Normal Grading Mode

ECN 483 Special Topics**1-4 Credit hours**

Members of the department may teach, when necessary, any economics subject not listed among the current course offerings.
Pre-req: (ECN 250 or ECN 242 or ECN 200) and (ECN 253 or ECN 241).
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.
Grade Mode: Normal Grading Mode

ECN 486 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.
Grade Mode: Normal Grading Mode

ECN 487 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.
Grade Mode: Normal Grading Mode

ECN 488 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.
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 advance and the student's performance will be evaluated.
Grade Mode: Credit/No Credit Grade Only

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.
Co-req: EDF 270
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.
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.
Co-req: EDF 201
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.
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.
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.
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.
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.
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.
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.
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
Grade Mode: Normal Grading Mode

EDF 483 Special Topics
Grade Mode: Normal Grading Mode

EDF 485 Independent Study
Grade Mode: Normal Grading Mode

EDF 486 Independent Study
Grade Mode: Normal Grading Mode

EDF 487 Independent Study
Grade Mode: Normal Grading Mode

EDF 488 Independent Study
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, Boolean 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 provides 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 probability theory applied to engineering problems, including elementary set operations, sample spaces and probability laws, conditional probability and independence.
Pre-req: MTH 231 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.
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 Communication 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 and EE 412.**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, impedance 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 and EE 310.**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. Introduction 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.**Concurrent PR:** MTH 132**Grade Mode:** Normal Grading Mode**ENGR 103 Freshman 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 disciplines; introduction to the engineering design process and team projects.

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 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 applications. (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 or MTH 229H.**Grade Mode:** Normal Grading Mode**ENGR 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.**Grade Mode:** Normal Grading Mode**ENGR 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 (may be taken concurrently) with a minimum grade of D and PHY 213 (may be taken concurrently) with a minimum grade of D.**Concurrent PR:** MTH 230 and PHY 213**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 properties, 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 231 (may be taken concurrently) with a minimum grade of D.

Concurrent PR: MTH 231

Grade Mode: Normal Grading Mode

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 452 Senior Capstone Design I**2 Credit hours**

Prepares students for engineering practice by focusing on licensure, ethics, and professional responsibility. Students begin work on senior capstone design projects that are finished the following semester in ENGR 453. (PR: Senior Standing in Engineering; Permission)

Co-req: ENGR 451

Attributes: No Textbook Required

Grade Mode: Normal Grading Mode

ENGR 453  Senior 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. (PR: ENGR 451, ENGR 452)

Pre-req: ENGR 452 with a minimum grade of D.

Attributes: Capstone Course, No Textbook Required

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)

 - 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.

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.

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 102 with a minimum grade of C or ENG 200H with a minimum grade of C or ENG 202 with a minimum grade of C or ENG 302 with a minimum grade of C or YGS 162 with a minimum grade of C or IST 201 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 or YGS 162 or ENG 302 with a minimum grade of C or ENG 102 with a minimum grade of C.

Attributes: Writing Intensive

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 102 with a minimum grade of C or ENG 302 with a minimum grade of C or ENG 201H with a minimum grade of C or ENG 202 or ENG 200H with a minimum grade of C or YGS 162 or IST 201 or ENG 201 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 102 or ENG 201 or ENG 201H or ENG 200H or YGS 162.

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 or ENG 202 or YGS 162 or IST 201 or ENG 302 with a minimum grade of C or ENG 102 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 102 with a minimum grade of C or ENG 302 with a minimum grade of C or ENG 201H with a minimum grade of C or ENG 202 or ENG 200H with a minimum grade of C or YGS 162 or IST 201 or ENG 201 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 or ENG 202 or YGS 162 or IST 201 or ENG 102 with a minimum grade of C or ENG 302 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 or ENG 202 or YGS 162 or IST 201 or ENG 102 with a minimum grade of C or ENG 302 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 or ENG 202 or YGS 162 or IST 201 or ENG 102 with a minimum grade of C or ENG 302 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 or ENG 102 with a minimum grade of C or ENG 202 or YGS 162.

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 102 with a minimum grade of C or ENG 302 with a minimum grade of C or ENG 201H with a minimum grade of C or ENG 202 or YGS 162 or IST 201 or ENG 200H with a minimum grade of C or ENG 201 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 102 with a minimum grade of C or ENG 302 with a minimum grade of C or ENG 201H with a minimum grade of C or ENG 202 or ENG 200H with a minimum grade of C or YGS 162 or IST 201 or ENG 201 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 102 or ENG 302 or ENG 201H or YGS 162 or IST 201 or ENG 202 or ENG 201 or ENG 200H.

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 102 with a minimum grade of C or ENG 302 with a minimum grade of C or ENG 201H with a minimum grade of C or ENG 202 or YGS 162 or IST 201 or ENG 200H with a minimum grade of C or ENG 201 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 or ENG 202 or YGS 162 or IST 201 or ENG 102 with a minimum grade of C or ENG 302 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 or ENG 102 with a minimum grade of C or ENG 202 or YGS 162.

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 or YGS 162 or IST 201 or ENG 102 with a minimum grade of C or ENG 302 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 102 with a minimum grade of C or ENG 302 with a minimum grade of C or ENG 201H with a minimum grade of C or ENG 202 or ENG 200H with a minimum grade of C or YGS 162 or IST 201 or ENG 201 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 or ENG 202 or YGS 162 or IST 201 or ENG 102 with a minimum grade of C or ENG 302 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 or ENG 202 or YGS 162 or IST 201 with a minimum grade of C or ENG 102 with a minimum grade of C or ENG 302 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 or ENG 202 or YGS 162 or IST 201 or ENG 102 with a minimum grade of C or ENG 302 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: 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.
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.
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.
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 201H.
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. (PR: Completion of Core II composition requirement or English or Creative Writing or Professional Writing minor; or permission of chair)
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 or ENG 202 with a minimum grade of C or YGS 162 with a minimum grade of C or IST 201 with a minimum grade of C or ENG 102 with a minimum grade of C or ENG 302 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 or ENG 200H or ENG 201H or YGS 162 or IST 201 or ENG 202 or ENG 102 or ENG 302.
Attributes: 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 or YGS 162 or IST 201 or ENG 202 or ENG 102 with a minimum grade of C or ENG 302 with a minimum grade of C.
Attributes: 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 or YGS 162 or IST 201 or ENG 202 or ENG 102 with a minimum grade of C or ENG 302 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.
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 or YGS 162 or IST 201 or ENG 202 or ENG 102 with a minimum grade of C or ENG 302 with a minimum grade of C.
Grade Mode: Normal Grading Mode
- ENG 377 Creative Writing Poetry** 3 Credit hours
Practice in writing poetry.
Pre-req: ENG 360.
Grade Mode: Normal Grading Mode
- ENG 378 Creative Writing Fiction** 3 Credit hours
Practice in writing fiction.
Pre-req: ENG 360.
Grade Mode: Normal Grading Mode
- ENG 379 Creative Writing: Nonfiction** 3 Credit hours
Practice in writing creative nonfiction.
Pre-req: ENG 360.
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.
Pre-req: ENG 350 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.
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 or ENG 350 or ENG 354.
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 or ENG 102 with a minimum grade of C.
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 Brontës, 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.

Pre-req: ENG 350 and Admitted to Teacher ED with a score of 4 and (ENG 410 or ENG 412).

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 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.

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 or ENG 102 with a minimum grade of C or ENG 202 with a minimum grade of C or YGS 162 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 D.

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 or ENG 344.

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 or ENG 344 or WS 101.

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).

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

<p>ENG 451 World Lit Since Renaissance 3 Credit hours</p> <p>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)</p> <p>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.</p> <p>Attributes: Literature</p> <p>Grade Mode: Normal Grading Mode</p>	<p>ENG 469 Teaching Creative Writing 3 Credit hours</p> <p>Pedagogy and practice for students who plan to teach Creative Writing at the primary, secondary, or college level.</p> <p>Pre-req: ENG 350 and ENG 360.</p> <p>Grade Mode: Normal Grading Mode</p>
<p>ENG 455 Advanced Critical Theory 3 Credit hours</p> <p>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.</p> <p>Pre-req: ENG 303 or ENG 306 or ENG 307 or ENG 308 or ENG 309 or ENG 310 or ENG 311 or ENG 313 or ENG 315 or ENG 317 or ENG 319 or ENG 320 or ENG 323 or ENG 329 or ENG 331 or ENG 335 or ENG 336 or ENG 340 or ENG 341 or ENG 342 or ENG 344 or ENG 350 or ENG 360 or ENG 377 or ENG 378 or ENG 402 or ENG 405 or ENG 408 or ENG 409 or ENG 410 or ENG 411 or ENG 412 or ENG 413 or ENG 414 or ENG 415 or ENG 416 or ENG 417 or ENG 419 or ENG 420 or ENG 421 or ENG 422 or ENG 423 or ENG 424 or ENG 425 or ENG 428 or ENG 433 or ENG 434 or ENG 435 or ENG 436 or ENG 437 or ENG 438 or ENG 444 or ENG 446 or ENG 447 or ENG 450 or ENG 451 or ENG 458 or ENG 462 or ENG 465 or ENG 480 or ENG 481 or ENG 482 or ENG 483 or ENG 491 or ENG 492 or ENG 493 or ENG 321 or ENG 475 or ENG 476 or ENG 478 or ENG 485 or ENG 354.</p> <p>Attributes: Literature</p> <p>Grade Mode: Normal Grading Mode</p>	<p>ENG 470 Form/Theory: Creative Writing 3 Credit hours</p> <p>Readings in creative writing illustrating formal and theoretical concerns. Readings will also be applied to student writing.</p> <p>Pre-req: ENG 350 and ENG 360.</p> <p>Attributes: Literature</p> <p>Grade Mode: Normal Grading Mode</p>
<p>ENG 460 Comp Writing Center Theory 4 Credit hours</p> <p>Introduces students to the study of teaching writing in a classroom setting and in one-to-one tutoring.</p> <p>Pre-req: ENG 350.</p> <p>Grade Mode: Normal Grading Mode</p>	<p>ENG 475 Intro to Linguistics 3 Credit hours</p> <p>The structural and descriptive approach to study of the English language. (Completion of Core II Composition Requirement)</p> <p>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 or YGS 162 or IST 201 or ENG 202 or ENG 102 with a minimum grade of C or ENG 302 with a minimum grade of C.</p> <p>Grade Mode: Normal Grading Mode</p>
<p>ENG 466 🐼 Literacy Studies 3 Credit hours</p> <p>Theories of writing and reading development with a focus on cultural, linguistic, and rhetorical influences on literacy acquisition. (Completion of Core II Composition Requirement)</p> <p>Pre-req: ENG 102 with a minimum grade of C or ENG 201H with a minimum grade of C or ENG 200H with a minimum grade of C or ENG 201 with a minimum grade of C.</p> <p>Attributes: Multicultural</p> <p>Grade Mode: Normal Grading Mode</p>	<p>ENG 476 Structures of English Language 3 Credit hours</p> <p>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)</p> <p>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 or YGS 162 or IST 201 or ENG 202 or ENG 102 with a minimum grade of C or ENG 302 with a minimum grade of C.</p> <p>Grade Mode: Normal Grading Mode</p>
<p>ENG 467 Visual Rhetoric 3 Credit hours</p> <p>Study of the production, strategies, reception, and persuasive effects of visual texts. (Completion of Core II Composition Requirement)</p> <p>Pre-req: ENG 102 or ENG 201H or ENG 200H or ENG 201.</p> <p>Grade Mode: Normal Grading Mode</p>	<p>ENG 478 Intro to Sociolinguistics 3 Credit hours</p> <p>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)</p> <p>Pre-req: ENG 102 with a minimum grade of C or ENG 302 with a minimum grade of C or ENG 201H with a minimum grade of C or YGS 162 or IST 201 or ENG 202 or ENG 201 with a minimum grade of C or ENG 200H with a minimum grade of C.</p> <p>Grade Mode: Normal Grading Mode</p>
	<p>ENG 480 Special Topics 1-4 Credit hours</p> <p>Pre-req: ENG 350.</p> <p>Grade Mode: Normal Grading Mode</p>
	<p>ENG 481 Special Topics 1-4 Credit hours</p> <p>Pre-req: ENG 350.</p> <p>Grade Mode: Normal Grading Mode</p>
	<p>ENG 482 Special Topics 1-4 Credit hours</p> <p>Pre-req: ENG 350.</p> <p>Grade Mode: Normal Grading Mode</p>
	<p>ENG 483 Special Topics 1-4 Credit hours</p> <p>Pre-req: ENG 350.</p> <p>Grade Mode: Normal Grading Mode</p>
	<p>ENG 485 Independent Study 1-4 Credit hours</p> <p>Pre-req: ENG 350.</p> <p>Grade Mode: Normal Grading Mode</p>
	<p>ENG 486 Independent Study 1-4 Credit hours</p> <p>Pre-req: ENG 350.</p> <p>Grade Mode: Normal Grading Mode</p>

ENG 487 Independent Study Pre-req: ENG 350. Grade Mode: Normal Grading Mode	1-4 Credit hours	ENT 282 Special Topics Special topics in entrepreneurship. Grade Mode: Normal Grading Mode	1-4 Credit hours
ENG 488 Independent Study Pre-req: ENG 350. Grade Mode: Normal Grading Mode	1-4 Credit hours	ENT 283 Special Topics Special topics in entrepreneurship. Grade Mode: Normal Grading Mode	1-4 Credit hours
ENG 490 Internship 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	3 Credit hours	ENT 284 Special Topics Special topics in entrepreneurship. Grade Mode: Normal Grading Mode	1-4 Credit hours
ENG 491 Poetry Workshop 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. Grade Mode: Normal Grading Mode	3 Credit hours	ENT 320 Marketing for Entrepreneurs 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	3 Credit hours
ENG 492 Fiction Workshop Offers students a forum for presentation, discussion, and refinement of their work, either short stories or novels. Pre-req: ENG 378. Grade Mode: Normal Grading Mode	3 Credit hours	ENT 340 Business Models for Start-Ups 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	3 Credit hours
ENG 493 Creative Nonfiction 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. Grade Mode: Normal Grading Mode	3 Credit hours	ENT 350 The Startup Experience 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: MGT 360 with a minimum grade of D or ENT 360 with a minimum grade of D. Grade Mode: Normal Grading Mode	3 Credit hours
ENG 499 🦋 Senior Capstone 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 and ENG 355. Attributes: Capstone Course Grade Mode: Normal Grading Mode	3 Credit hours	ENT 360 Intro to Entrepreneurship 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 MGT 320H with a minimum grade of D or MKT 340 with a minimum grade of D. Grade Mode: Normal Grading Mode	3 Credit hours
		ENT 370 Dilemmas & Debates in Entrp Refereed 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: MGT 360. Grade Mode: Normal Grading Mode	3 Credit hours

Entrepreneurship (ENT)

🦋 - General Education Course

ENT 220 Creativity & Innovation 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	3 Credit hours	ENT 380 Social Entrepreneurship 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	3 Credit hours
ENT 280 Special Topics Special topics in entrepreneurship. Grade Mode: Normal Grading Mode	1-4 Credit hours	ENT 410 Corporate Intrapreneurship 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	3 Credit hours
ENT 281 Special Topics Special topics in entrepreneurship. Grade Mode: Normal Grading Mode	1-4 Credit hours		

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: ENG 467.

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.

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 481 Special Topics 1-4 Credit hours

Study of an advanced topic not normally covered in other courses.

Grade Mode: Normal Grading Mode

ENT 482 Special Topics 1-4 Credit hours

Study of an advanced topic not normally covered in other courses.

Grade Mode: Normal Grading Mode

ENT 483 Special Topics 1-4 Credit hours

Study of an advanced topic not normally covered in other areas.

Grade Mode: Normal Grading Mode

ENT 484 Special Topics 1-4 Credit hours

Study of an advanced topic not normally covered in other areas.

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.

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.

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).

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).

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).

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).

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).

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	ESS 427 Methods Coaching Football	2 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.		Grade Mode: Normal Grading Mode	
Grade Mode: Normal Grading Mode		ESS 428 Methods Coaching Baseball	2 Credit hours
ESS 215 Intro to Exercise Science	3 Credit hours	Grade Mode: Normal Grading Mode	
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.		ESS 429 Methods Coaching Golf	2 Credit hours
Grade Mode: Normal Grading Mode		Grade Mode: Normal Grading Mode	
ESS 220 Fitness and Wellness	3 Credit hours	ESS 436 Methods Coaching Tennis	2 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	
Grade Mode: Normal Grading Mode		ESS 437 Method Coach Volleyball	2 Credit hours
ESS 295 Adult Fitness Prog Indust	2 Credit hours	Grade Mode: Normal Grading Mode	
Grade Mode: Normal Grading Mode		ESS 442 Princ of Strength & Cond	3 Credit hours
ESS 301 Phil Sport & Phys Activity	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.	
Development of philosophic reasoning skills to better understand the role that philosophy plays in our understanding and conception of physical activity and sport.		Pre-req: HS 365 with a minimum grade of D.	
Grade Mode: Normal Grading Mode		Grade Mode: Normal Grading Mode	
ESS 345 Exercise Physiology	3 Credit hours	ESS 443 Prin of Strength Cond Lab	1 Credit hour
Focuses on physiological and functional alterations in response to acute and chronic exercise with emphasis on metabolic, neuroendocrine, neuromuscular, cardiopulmonary, and environmental adaptations.		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: BSC 228 with a minimum grade of C.		Pre-req: ESS 345 with a minimum grade of D or ESS 321 with a minimum grade of D.	
Grade Mode: Normal Grading Mode		Co-req: ESS 442	
ESS 346 Exercise Physiology Lab	2 Credit hours	Grade Mode: Normal Grading Mode	
Laboratory course that demonstrates and reinforces concepts pertaining to the effects of exercise on physiological systems.		ESS 447 Advanced Exercise Physiology	3 Credit hours
Pre-req: ESS 345 (may be taken concurrently).		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.	
Concurrent PR: ESS 345		Pre-req: ESS 345.	
Grade Mode: Normal Grading Mode		Grade Mode: Normal Grading Mode	
ESS 365 Tests & Measurements PE	3 Credit hours	ESS 476 Theo Prac Aspect Coaching	3 Credit hours
Grade Mode: Normal Grading Mode		Grade Mode: Normal Grading Mode	
ESS 375 Fitness Assess & Exerc Prescr	3 Credit hours	ESS 478 Energy Sources Body Comp	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.		Pre-req: ESS 345 with a minimum grade of C.	
Pre-req: ESS 345 with a minimum grade of C.		Grade Mode: Normal Grading Mode	
Grade Mode: Normal Grading Mode		ESS 480 Special Topics	1-4 Credit hours
ESS 385 Devel Adult Fitness Prog	3 Credit hours	Grade Mode: Normal Grading Mode	
Pre-req: ESS 345.		ESS 481 Special Topics	1-4 Credit hours
Grade Mode: Normal Grading Mode		Grade Mode: Normal Grading Mode	
ESS 386 Adult Fitness	3 Credit hours	ESS 482 Special Topics	1-4 Credit hours
Discuss health risk appraisal and exercise benefits of commonly seen pathophysiology among the U.S. adults.		Grade Mode: Normal Grading Mode	
Pre-req: ESS 345 with a minimum grade of C.		ESS 483 Special Topics	1-4 Credit hours
Grade Mode: Normal Grading Mode		Grade Mode: Normal Grading Mode	
ESS 418 🌳 Ancient & Medi Sport History	3 Credit hours	ESS 485 Independent Study	1-4 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.		Grade Mode: Normal Grading Mode	
Attributes: Multicultural		ESS 486 Independent Study	1-4 Credit hours
Grade Mode: Normal Grading Mode		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.

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.**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.**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.

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.

Pre-req: FIN 323 or FIN 323E or FIN 323V.**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 or FIN 323E or FIN 323V.**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.**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. Capstone experience.

Pre-req: FIN 321.**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.

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 ooptions and futures, their market microstrrructure, their theoretical foundation pertaining to pricing and hedging with such contracts, and their uses.

Pre-req: FIN 370.**Grade Mode:** Normal Grading Mode**FIN 432 Financial Advising: FINRA S-7****3 Credit hours**

This course prepares students for teh 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.

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.

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 chairman.

Grade Mode: Normal Grading Mode

FIN 481 Special Topics**1-4 Credit hours**

Study of an advanced topic not normally covered in other courses.

Finance major only, with permission of department chairman.

Grade Mode: Normal Grading Mode

FIN 485 Independent Study**1-4 Credit hours**

Grade Mode: Normal Grading Mode

FIN 486 Independent Study**1-4 Credit hours**

Grade Mode: Normal Grading Mode

FIN 487 Independent Study**1-4 Credit hours**

Grade Mode: Normal Grading Mode

FIN 488 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 student's 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.

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.

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.

Grade Mode: Normal Grading Mode

FRN 102 Elementary French II**3 Credit hours**

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 112 Basic French**3 Credit hours**

Combination of French 101 and 102. Students completing the course with a grade of C or better are awarded three additional hours of credit toward graduation.

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.

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.

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 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.

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)

Pre-req: FRN 204.**Grade Mode:** Normal Grading Mode**FRN 306 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)

Pre-req: FRN 204.**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.

Pre-req: FRN 204.**Grade Mode:** Normal Grading Mode**FRN 316 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.

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.

Pre-req: FRN 204.**Attributes:** Literature**Grade Mode:** Normal Grading Mode**FRN 318 Survey French Literature****3 Credit hours**

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)

Pre-req: FRN 204.**Grade Mode:** Normal Grading Mode**FRN 324 Adv Frn Gram & Oral Com****3 Credit hours**

Analysis of grammatical structure 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 336 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.

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)

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.

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.

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 406 🌿 Frn Civilization & Cult****3 Credit hours**

French culture from prehistoric to modern times with emphasis on contemporary life and French institutions. This course is conducted in French, and full language credit is given.

Pre-req: FRN 204.**Attributes:** International**Grade Mode:** Normal Grading Mode**FRN 407 Foreign Lang Tchg Meth****3 Credit hours**

Analysis and practical application of methods of teaching foreign language, including professional development, language pedagogy, and language standards. To be taken concurrently with CI 470.

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.**Co-req:** CI 470**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 418 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.

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.

Pre-req: FRN 317 and FRN 318.**Grade Mode:** Normal Grading Mode**FRN 428 Dev Frn Poetry-Theater II****3 Credit hours**

A study of literary works illustrating the development of poetry and theater in France during the 19th and 20th Centuries.

Pre-req: FRN 204.**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.

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.

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 482 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.

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 483 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.

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.

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.

Grade Mode: Normal Grading Mode**GEO 111 Air Photos & Satellite Imagery****1 Credit hour**

Introduction to photogrammetry and remote sensing through the hands-on investigation of aerial photographs and satellite imagery using the latest technology.

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.

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.

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.

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 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.

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.

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.

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.

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 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.
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.
Grade Mode: Normal Grading Mode
- GEO 429 Princ of GIS 2-Vector Analysis** **4 Credit hours**
Continuation of GEO 426 Principles of GIS, including additional principles like data management, cartographic design, and geocoding; and vector analyses like spatial analysis, spatial autocorrelation, and network analysis.
Pre-req: GEO 426 or GEO 430 or IST 423.
Grade Mode: Normal Grading Mode
- GEO 430 GIS-Raster Analysis** **4 Credit hours**
GIS raster analysis, including local, neighborhood, and zonal operations, terrain analysis, building raster databases, distance modeling, and surface interpolation. Data collection and input from readily available sources, creation of custom data using GPS and advanced spatial analysis using GIS. (PR: GEO 429)
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 or GEO 429 or GEO 430 or IST 423.
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 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 and (MTH 225 or GEO 440 or MGT 218 or PSY 223 or SOC 345 or ANT 301 or EDF 417).
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.

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, acoustic 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.

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.

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 contents. 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 298 ITV: 1-4 Credit hours

A course based upon an Instruction Television series broad- cast by public television. The student is responsible for viewing the series on the air and satisfying all course requirements announced by the department.

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.

Pre-req: GLY 110 or GLY 200.

Attributes: Natural Sciences

Grade Mode: Normal Grading Mode

GLY 314 Mineralogy 4 Credit hours

Identification, classification, origin, 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.

Pre-req: GLY 200 with a minimum grade of D and GLY 210L with a minimum grade of D.

Grade Mode: Normal Grading Mode

GLY 325 Stratigraphy & Sediment**4 Credit hours**

Formation, organization, sequence, and correlation of sedimentary rocks; study of the origin, 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.

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)

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 and (GLY 200 or GLY 110).

Grade Mode: Normal Grading Mode

GLY 421 Igneous & Metamorphic Petrology**4 Credit hours**

Identification 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 evaluation. 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.

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.

Pre-req: GLY 200 or GLY 110.

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.

Pre-req: GLY 110 or GLY 200.

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)

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 470 Internship**3 Credit hours**

Internship in Digital Forensics and Information Assurance

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**Attributes:** Natural Sciences**Grade Mode:** Normal Grading Mode**1-4 Credit hours****GLY 482 Special Topics****Attributes:** Natural Sciences**Grade Mode:** Normal Grading Mode**1-4 Credit hours****GLY 483 Special Topics****Attributes:** Natural Sciences**Grade Mode:** Normal Grading Mode**1-4 Credit hours****GLY 485 Independent Study****Attributes:** No Textbook Required, Natural Sciences**Grade Mode:** Normal Grading Mode**1-4 Credit hours****GLY 486 Independent Study****Attributes:** Natural Sciences**Grade Mode:** Normal Grading Mode**1-4 Credit hours****GLY 487 Independent Study****Attributes:** Natural Sciences**Grade Mode:** Normal Grading Mode**1-4 Credit hours****GLY 488 Independent Study****Attributes:** Natural Sciences**Grade Mode:** Normal Grading Mode**1-4 Credit hours****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.

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.

Pre-req: GER 101 with a minimum grade of C.**Grade Mode:** Normal Grading Mode**GER 132 Intensive German II****4 Credit hours****Grade Mode:** Normal Grading Mode**GER 134 Intensive German III****4 Credit hours****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)

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)

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.

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 282 Special Topics****1-4 Credit hours****Grade Mode:** Normal Grading Mode**GER 283 Special Topics****1-4 Credit hours****Grade Mode:** Normal Grading Mode**GER 302 Prose 19Th & 20Th Cent****3 Credit hours**

A survey of literary trends and main authors. Reading and comprehension of selected stories and discussion of novels.

Pre-req: GER 204.**Attributes:** Literature**Grade Mode:** Normal Grading Mode**GER 312 Foreign Lang Teach Techniques****3 Credit hours**

Introduction to the Communicative Approach to language teaching. Presentation and practice in the creation of lesson plans using in-class technologies and computer-assisted language learning materials. For Education majors only.

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 405 🌱 German Civiliza & Culture****3 Credit hours**

German culture from prehistoric times to present-day divided Germany. Lectures, reports, discussions, representative readings in English and German.

Pre-req: GER 204.**Attributes:** Multicultural**Grade Mode:** Normal Grading Mode

GER 406 🌿 German Civiliza & Culture 3 Credit hours

German culture from prehistoric times to present-day divided Germany, Lectures, reports, discussions, representative readings in English and German.

Pre-req: GER 204.

Attributes: Multicultural

Grade Mode: Normal Grading Mode

GER 419 Ger Lit-Classical Age 3 Credit hours

German literature of the classical age, stressing Goethe, Schiller, and romanticism.

Pre-req: GER 204.

Attributes: Literature

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 482 Special Topics 1-4 Credit hours

Grade Mode: Normal Grading Mode

GER 483 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

GER 487 Independent Study 1-4 Credit hours

Pre-req: GER 204.

Grade Mode: Normal Grading Mode

GER 488 Independent Study 1-4 Credit hours

Pre-req: GER 204.

Grade Mode: Normal Grading Mode

Greek (GRK)

🌿 - General Education Course

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 301 Anc Intermed Greek 3 Credit hours

Varied readings including selections from 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 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.

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

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

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

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

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.

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.

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 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.

Concurrent PR: HS 201 or HS 222 or BSC 227

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.

Pre-req: HS 220 with a minimum grade of D.

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 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 evaluation 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.

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.

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 Instrument Mat Lab**3 Credit hours**

This course teaches students the skills to use biomechanical sensors as instruments for research, and the use of MatLab programming language to process the data they collect from their instruments.

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.

Pre-req: HS 365 and HS 465.

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 environment 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.

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.

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.

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

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.

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.

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.

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.

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.

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.

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.

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.

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.

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.

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.

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.

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.

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.

Grade Mode: Normal Grading Mode

HST 281 Special Topics**1-4 Credit hours**

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.

Grade Mode: Normal Grading Mode

HST 283 Special Topics**1-4 Credit hours**

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.

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.

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.

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 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.

Attributes: American Institutions, Multicultural, 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)

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.

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.

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.

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.

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.

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.

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 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 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 food-ways 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.

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 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.

Attributes: European History

Grade Mode: Normal Grading Mode

HST 407 History of Sexuality**3 Credit hours**

Examines the history of sexuality in North America in the context of cultural, legal, economic, political and social history from the 16th century to the 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.

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.

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.

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.

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.

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.

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.

Attributes: American Institutions, United States History

Grade Mode: Normal Grading Mode

HST 425 European Hist 1814-1914**3 Credit hours**

A century of European political, 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.

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.

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 foreign 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.

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.

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.

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.

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.

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.

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.

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.

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.

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 450 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 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.

Grade Mode: Normal Grading Mode

HON 291 Yeager Seminar II**4 Credit hours**

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.

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.

Pre-req: Admitted Honors College with a score of 1.

Grade Mode: Normal Grading Mode

HON 294 Interdisciplinary Honors**3 Credit hours**

Ideas in Social Science. This course is subject to periodic changes in content.

Grade Mode: Normal Grading Mode

HON 295 Interdisciplinary Honors**3 Credit hours**

Ideas in Natural Science. This course is subject to periodic changes in content.

Grade Mode: Normal Grading Mode

HON 296 Interdisciplinary Honors**3 Credit hours**

Ideas in the Humanities. This course is subject to periodic changes in content.

Grade Mode: Normal Grading Mode

HON 395 Interdisciplinary Honors**3 Credit hours**

Pre-req: Admitted Honors College with a score of 1.

Grade Mode: Normal Grading Mode

HON 396 Interdisciplinary Honors**3 Credit hours**

Grade Mode: Normal Grading Mode

HON 480 Special Topics**1-4 Credit hours**

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 481 Special Topics**1-4 Credit hours**

A study of special topics not listed under current course offerings.

Grade Mode: Normal Grading Mode

HON 482 Special Topics**1-4 Credit hours**

A study of special topics not listed under current course offerings.

Grade Mode: Normal Grading Mode

HON 483 Special Topics**1-4 Credit hours**

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

Students will learn skills for and participate in information gathering, writing, editing and designing to produce the Honors College electronic newsletter, The Honors Oracle.

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

The Honors College Student Association Steering Committee studies leadership and community-building strategies and organizes service, educational, and social functions for Honors College students.

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.

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.

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.

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.

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.

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, scripting, developing logos, audio-recording and layout design for manuals. 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.

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
Grade Mode: Normal Grading Mode

ITL 486 Independent Study
Grade Mode: Normal Grading Mode

ITL 487 Independent Study
Grade Mode: Normal Grading Mode

ITL 488 Independent Study
Grade Mode: Normal Grading Mode

ITL 491 Workshop
Grade Mode: Normal Grading Mode

ITL 492 Workshop
Grade Mode: Normal Grading Mode


ITL 493 Workshop
Grade Mode: Normal Grading Mode

ITL 494 Workshop
Grade Mode: Normal Grading Mode

Integrated Sci & Technology (IST)

 - General Education Course

IST 150 Spreadsheet & Database Prin **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

IST 224  Intro to Forensic Science **4 Credit hours**
 The relationship between scientific process and crime solutions is explored. DNA technology, probability theory, fingerprints, blood spatter, questioned documents, crime scene investigation will be examined using laboratories and case studies.
Attributes: Natural Sciences, Core II Natural Sciences
Grade Mode: Normal Grading Mode

IST 241 Introduction to DNA Cloning **4 Credit hours**
 Basic Molecular Genetics. Topics include DNA, RNA, and protein structure and function, microbiology, genetics, cell biology, gene regulation, molecular biology applications in agriculture, medicine, and industry. Hands-on DNA cloning lab.
Grade Mode: Normal Grading Mode

IST 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

IST 280 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

IST 281 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

IST 282 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

IST 283 Special Topics **1-4 Credit hours**
Grade Mode: Normal Grading Mode

IST 285 Independent Study **1-3 Credit hours**
 Independent study for selected sophomores or advanced freshmen under supervision of faculty; may be repeated only once.
Grade Mode: Normal Grading Mode

IST 286 Independent Study **1-4 Credit hours**
 Independent study for selected sophomores or advanced freshmen under supervision of faculty; may be repeated only once.
Grade Mode: Normal Grading Mode

IST 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

IST 330 Knowledge Engin Fund **3 Credit hours**
 Introduction to fundamental topics of knowledge engineering and the development of Knowledge-Based Systems (KBS). Covers life cycle activities, knowledge acquisition, representation, and the implementation of KBS and building tools.
Pre-req: IST 263.
Grade Mode: Normal Grading Mode

IST 340 DNA Technology **4 Credit hours**
 This class deals with DNA and genes, the code of life, which we receive from our parents. It tells how humans recently learned about DNA and started to manipulate it.
Pre-req: IST 241 or CHM 212 or BSC 120.
Attributes: Natural Sciences
Grade Mode: Normal Grading Mode

IST 341 Human Genetics **4 Credit hours**
 Principles, problems, and methods in human genetics. Mendelian, biochemical, medical, quantitative, and molecular genetics, cytogenetics, bioethics applied to humans. Lab includes DNA sequencing SNP genotyping. PR: IST 241 or equivalent.
Pre-req: IST 241 or CHM 212 or BSC 120.
Attributes: Natural Sciences
Grade Mode: Normal Grading Mode

IST 342 Biosciences Research Meth **3 Credit hours**
 Students will develop proficiency in the laboratory methods used in Biosciences. These skills prepare students for successful internships and advanced courses in biotechnology and environmental sciences. Hands-on and WebCT instruction.
Pre-req: IST 241 or CHM 212 or BSC 120.
Attributes: Natural Sciences
Grade Mode: Normal Grading Mode

IST 343 Genomic Cloning & Cytogenetics **4 Credit hours**
 Advanced molecular genetics class emphasizing lab techniques. DNA cloning and plasmid purification, Genomic DNA purification, Southern and Northern hybridization, DNA sequencing, animal cell culture and human cytogenetics.
Pre-req: IST 241 or CHM 212 or BSC 120.
Attributes: Natural Sciences
Grade Mode: Normal Grading Mode

IST 350 Manufacturing Systems **3 Credit hours**
 Various manufacturing systems used within organizations are introduced. Methods of manufacturing are presented along with various technologies employed. Design for manufactur- ing, material management, quality considerations, etc. are treated.
Pre-req: IST 160.
Grade Mode: Normal Grading Mode

IST 434 Molecular Diagnostics**3 Credit hours**

This course is designed to provide an overview of the general principles and methods used to diagnose bacterial, viral and human diseases by molecular techniques.

Grade Mode: Normal Grading Mode**IST 441 Metabolic Systems****3 Credit hours**

Discusses basic molecules, processes, and mechanisms responsible for the activity of all living systems, and the methods of their analysis. Provides necessary theoretical background for the understanding of industrial biotechnology.

Pre-req: BSC 120.**Attributes:** Natural Sciences**Grade Mode:** Normal Grading Mode**IST 442 Bioethics****3 Credit hours**

Discuss ethical issues in scientific research: fraud, informed consent, genetic testing, gene therapy, cloning, new drugs, vaccines and foods produced via engineered organisms. Includes real case studies and media analysis.

Grade Mode: Normal Grading Mode**IST 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.**Attributes:** Natural Sciences**Grade Mode:** Normal Grading Mode**IST 444 Bioinformatics****3 Credit hours**

Bioinformatics computer software is used to draw inferences from DNA and protein databases. Students will find pattern and meaning in genomic data through computer-aided analysis of DNA, RNA, and protein.

Pre-req: IST 241 or CHM 212 or BSC 120.**Attributes:** Natural Sciences**Grade Mode:** Normal Grading Mode**IST 445 DNA Forensics****3 Credit hours**

Hands-on DNA typing of simulated crime scene evidence. Process biological samples, purify DNA, perform presumptive and confirmatory tests for blood and semen, learn microscopy, PCR genetic analysis and practice testimony.

Pre-req: IST 224 or IST 340 or IST 341.**Attributes:** Natural Sciences**Grade Mode:** Normal Grading Mode**IST 455 Drugs Biologics Med Devices****3 Credit hours**

Students will learn key components of the drug discovery process and the steps leading to full regulatory approval and commercialization of drugs, biologics and medical devices. Case studies will be discussed.

Pre-req: IST 340 or BSC 322.**Grade Mode:** Normal Grading Mode**IST 480 Special Topics****1-4 Credit hours****Grade Mode:** Normal Grading Mode

Integrated Sciences (ISC)

 - General Education Course**ISC 207 Coal Science****4 Credit hours**

Examines the importance of coal to industrialized nations and the operation of a electric power plant. There is also an assessment of the impact of mining activities on the environment.

Pre-req: MTH 121 or MTH 121B or MTH 121H or MTH 122 or MTH 123 or MTH 123E or MTH 125 or MTH 127 or MTH 130 or MTH 130E or MTH 130H or MTH 131 or MTH 132 or MTH 140 or MTH 190 or MTH 203 or MTH 220 or MTH 225 or MTH 229 or MTH 229H.**Grade Mode:** Normal Grading Mode**ISC 217 Tropical Ecology****4 Credit hours**

An introduction to tropical ecosystems including rainforest and coral reefs. Cultural sites visited. Permission of instructor. Course includes required international travel with extra fees.

Grade Mode: Normal Grading Mode**ISC 280 Special Topics****1-4 Credit hours****Pre-req:** MTH 121 or MTH 121B or MTH 121H or MTH 122 or MTH 123 or MTH 123E or MTH 125 or MTH 127 or MTH 130 or MTH 130E or MTH 130H or MTH 131 or MTH 132 or MTH 140 or MTH 190 or MTH 203 or MTH 220 or MTH 225 or MTH 229 or MTH 229H.**Grade Mode:** Normal Grading Mode**ISC 281 Special Topics****1-4 Credit hours****Pre-req:** MTH 121 or MTH 121B or MTH 121H or MTH 122 or MTH 123 or MTH 123E or MTH 125 or MTH 127 or MTH 130 or MTH 130E or MTH 130H or MTH 131 or MTH 132 or MTH 140 or MTH 190 or MTH 203 or MTH 220 or MTH 225 or MTH 229 or MTH 229H.**Grade Mode:** Normal Grading Mode**ISC 282 Special Topics****1-4 Credit hours****Pre-req:** MTH 121 or MTH 121B or MTH 121H or MTH 122 or MTH 123 or MTH 123E or MTH 125 or MTH 127 or MTH 130 or MTH 130E or MTH 130H or MTH 131 or MTH 132 or MTH 140 or MTH 190 or MTH 203 or MTH 220 or MTH 225 or MTH 229 or MTH 229H.**Grade Mode:** Normal Grading Mode**ISC 283 Special Topics****1-4 Credit hours****Pre-req:** MTH 121 or MTH 121B or MTH 121H or MTH 123 or MTH 123E or MTH 203.**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 and PSC 406.**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.

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.
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.
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.
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.
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.
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.
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.
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.
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.
Pre-req: JPN 305.
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.
Pre-req: JPN 204.
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, grammar, and listening.
Pre-req: JPN 204.
Grade Mode: Normal Grading Mode
- JPN 335 🌳 JPN Society & Culture** 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 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.
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.

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.

Grade Mode: Normal Grading Mode**JPN 407 Japanese Teaching Methodology****3 Credit hours**

Analysis and practical application of teaching Japanese, including professional development, language pedagogy, and language standards. For Japanese education majors only.

Pre-req: JPN 315.**Co-req:** CI 470**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.

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.

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.

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.

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.

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.

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.

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 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 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.

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)

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: 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.

Pre-req: JMC 241 with a minimum grade of C.

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)

Grade Mode: Normal Grading Mode

JMC 273 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)

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 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.

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 201 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.

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: 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.

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.

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.

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 broadcasting; 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 230 or JMC 360 or ART 315.**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.

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.

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.

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)

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, technological developments, social pressures, impact of the Internet and other concerns.

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.

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)

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.

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 emphasis on public relations 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 application 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)

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

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

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.

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.

Pre-req: JMC 241.

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.

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 examining 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.

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.

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.

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.

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.

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)

Pre-req: JMC 490.

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.

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.

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.

Pre-req: LAT 203.

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.

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 Pre-req: LAT 204. Grade Mode: Normal Grading Mode	1-4 Credit hours	LAT 410 Tacitus: Annals Agricola A close reading in Latin of selections from the works of Tacitus. Pre-req: LAT 204. Attributes: Literature Grade Mode: Normal Grading Mode	3 Credit hours
LAT 282 Special Topics Pre-req: LAT 204. Grade Mode: Normal Grading Mode	1-4 Credit hours	LAT 411 Latin Prose Comp: Survey 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	3 Credit hours
LAT 283 Special Topics Pre-req: LAT 204. Grade Mode: Normal Grading Mode	1-4 Credit hours	LAT 480 Special Topics Pre-req: LAT 204. Grade Mode: Normal Grading Mode	1-4 Credit hours
LAT 308 Catullus 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	3 Credit hours	LAT 481 Special Topics Pre-req: LAT 204. Grade Mode: Normal Grading Mode	1-4 Credit hours
LAT 311 Readings in Ovid Close reading in Latin of selections from Ovid's erotic and epic poetry. Pre-req: LAT 204. Attributes: Literature Grade Mode: Normal Grading Mode	3 Credit hours	LAT 482 Special Topics Pre-req: LAT 204. Grade Mode: Normal Grading Mode	1-4 Credit hours
LAT 315 Sallust and Nepos A close reading in Latin of selected works from Sallust and Nepos. Pre-req: LAT 204. Grade Mode: Normal Grading Mode	3 Credit hours	LAT 483 Special Topics Pre-req: LAT 204. Grade Mode: Normal Grading Mode	1-4 Credit hours
LAT 323 Latin Prose Comp: Tacitus 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	1 Credit hour	LAT 485 Independent Study 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	1-4 Credit hours
LAT 403 Roman Comedy Pre-req: LAT 204. Attributes: Literature Grade Mode: Normal Grading Mode	3 Credit hours	LAT 486 Independent Study 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	1-4 Credit hours
LAT 404 Roman Elegy: Prop & Tib Close readings in Latin of selections from the elegies of Propertius and Tibullus. Pre-req: LAT 204. Attributes: Literature Grade Mode: Normal Grading Mode	3 Credit hours	LAT 487 Independent Study 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	1-4 Credit hours
LAT 406 Horace: Odes, Epodes, Epistles Attributes: Literature Grade Mode: Normal Grading Mode	3 Credit hours	LAT 488 Independent Study 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	1-4 Credit hours
LAT 407 Livy's History of Rome Attributes: Literature Grade Mode: Normal Grading Mode	3 Credit hours		
LAT 408 Roman Epistolary Lit 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	3 Credit hours		
LAT 409 Roman Satire 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	3 Credit hours		

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

Learning English Academic Prep (LEAP)

LEAP 101 Learning ENG Academic Purposes**1-18 Credit hours****Grade Mode:** Credit/No Credit Grade Only

Legal Environment (LE)

🌱 - General Education Course

LE 207 Legal Environ of Business**3 Credit hours**

Law and the judicial system. The relationship of law, gov- ernment, ethics and the consumer of business enterprise. The study of contracts, torts, government regulation of bus- iness, 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 of also includes constitutional and administrative law issues dealing with medicaid and medicare and regional planning.

Pre-req: ACC 207 or FIN 207 or FIN 307 or LE 207.**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

Lewis College of Business (LCOB)

🌱 - General Education Course

LCOB 200 Career Exploration Skills**1 Credit hour**

Students will develop skills to prepare themselves for internships and careers in business through resume writing, interviewing, and job search strategies.

Grade Mode: Normal Grading Mode**LCOB 300 Business Professionalism****1 Credit hour**

Students will enhance their knowledge of leadership skills and better understand professionalism in the business world through this course.

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.

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 281 Special Topics****1-4 Credit hours****Grade Mode:** Credit/No Credit Grade Only**MGT 282 Special Topics****1-4 Credit hours****Grade Mode:** Normal Grading Mode**MGT 283 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. Application of statistical techniques to business and economic data. Topics include measures of central tenden- cy and dispersion, theory of probability and probability distributions, sampling distributions, estimation, hypotheses testing, correlation and regression analysis, index numbers and time series.

Pre-req: MTH 190.**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.

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.**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 350 Health Care Management****3 Credit hours**

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.

Pre-req: MGT 350.**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.**Grade Mode:** Normal Grading Mode**MGT 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 co-operation 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 MGT 320H 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.

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.

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.**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.

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 an attempt to describe a holistic approach.

Pre-req: MGT 320 or MGT 320E.**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.

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, participative management, and labor theory. Labor laws and history are reviewed. relations.

Pre-req: (MGT 320 or MGT 320E).**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 experiential 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.

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.

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.

Pre-req: MGT 320.**Grade Mode:** Normal Grading Mode**MGT 454 Trends Hlth Care Delivery****3 Credit hours**

Discussion of trends in Health Care Delivery in the United States and related public policies and their implications to society.

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 456 Plan Hlth Care Del System****3 Credit hours**

Application of systems approach to evaluation of current health care services and for future planning decisions.

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.**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 with 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) 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, Writing Intensive**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.

Grade Mode: Credit/No Credit Grade Only**MGT 472 Prac Health Care Mgt II****4 Credit hours**

Field experience in management of Health Care Organizations.

Pre-req: MGT 471.**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.

Grade Mode: Normal Grading Mode**MGT 481 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.

Grade Mode: Normal Grading Mode**MGT 482 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.

Grade Mode: Normal Grading Mode**MGT 483 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.

Grade Mode: Normal Grading Mode**MGT 485 Independent Study****1-4 Credit hours****Grade Mode:** Normal Grading Mode

MGT 486 Independent Study 1-4 Credit hours**Grade Mode:** Normal Grading Mode**MGT 487 Independent Study 1-4 Credit hours****Grade Mode:** Normal Grading Mode**MGT 488 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.

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.

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 307 Advanced Business Programming 3 Credit hours**

Builds upon the business programming introduction with an emphasis on distributed, data-driven applications and higher order data structures (PR: MIS 300)

Pre-req: MIS 300.**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)

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 management system.

Grade Mode: Normal Grading Mode**MIS 350 E-Commerce Systems 3 Credit hours**

E-Commerce from a management and socio-technical perspective emphasizing current technologies and issues, including internet-enabled business models, legal and social issues. PR: MIS 290 or permission of COB advising office.

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 411 App Sys Anlyn & Dsgn 3 Credit hours****Grade Mode:** Normal Grading Mode**MIS 412 Enterprise Systems 3 Credit hours**

A study of cross-functional and process-oriented information systems. Topics to include business process management, supply-chain, and relationship management systems. PR: MIS 290 or permission of COB advising office.

Pre-req: MIS 290.**Grade Mode:** Normal Grading Mode**MIS 415 Emerging Info & Comm Tech 3 Credit hours**

A study of emerging information and communication technologies in a business and organizational context. PR: MIS 290 or permission of COB advising office.

Pre-req: MIS 290.**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.

Attributes: Capstone Course

Grade Mode: Normal Grading Mode

MIS 476 Bus Intel & Analytics Project 3 Credit hours

A capstone project in business intelligence & analytics. Principles of business intelligence & analytics as applied to the development of a comprehensive, multi-disciplinary business intelligence and analytics project.

Pre-req: MIS 460.

Grade Mode: Normal Grading Mode

MIS 480 Special Topics 1-4 Credit hours

Grade Mode: Normal Grading Mode

MIS 481 Special Topics 1-4 Credit hours

Grade Mode: Normal Grading Mode

MIS 482 Special Topics 1-4 Credit hours

Grade Mode: Normal Grading Mode

MIS 483 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 486 Independent Study 1-4 Credit hours

Grade Mode: Normal Grading Mode

MIS 487 Independent Study 1-4 Credit hours

Grade Mode: Normal Grading Mode

MIS 488 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.

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.

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.

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.

Pre-req: MKT 340 with a minimum grade of D and (ACC 215 with a minimum grade of D or ACC 310 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 pipeline transportation. Particular emphasis is placed upon the significance of transportation 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.

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)

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.

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 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.

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.

Pre-req: (MKT 340 or MKT 340E).**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.

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)

Pre-req: MKT 340 or MKT 340E.**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.

Pre-req: (MKT 340 with a minimum grade of D or MKT 340H 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)

Grade Mode: Normal Grading Mode**MKT 449 Transport Law/Pub Policy****3 Credit hours**

Comprehensive review of the regulation of carriers and transportation regulatory acts, functions of the procedure before the several regulatory commissions.

Pre-req: ACC 216 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 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 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 modifying 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.

Grade Mode: Normal Grading Mode**MKT 481 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.

Grade Mode: Normal Grading Mode**MKT 482 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.

Grade Mode: Normal Grading Mode**MKT 485 Independent Study****1-4 Credit hours****Pre-req:** MKT 442 and MKT 231 and MKT 437.**Grade Mode:** Normal Grading Mode**MKT 486 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.

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, 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, 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 to 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: 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: 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: 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.

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: 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. Not to be substituted for Mathematics 131 or Mathematics 190.

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: 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 25 or SAT Mathematics Before Mar. 16 with a score of 570 or SAT MATH SECTION SCORE with a score of 590.

Attributes: Honors

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, Mathematics

Grade Mode: Normal Grading Mode

MTH 220 🌿 Discrete Structures**3 Credit hours**

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 IST 131 with a minimum grade of C or MTH 229 with a minimum grade of C.

Attributes: 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, 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, 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 IST 230 or MTH 229H with a minimum grade of C.

Attributes: 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.

Pre-req: MTH 230 with a minimum grade of C.

Attributes: 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. (PR or CR: MTH 231 or equivalent)

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.

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 IST 131 with a minimum grade of C or (MTH 122 with a minimum grade of C and MTH 127 with a minimum grade of C) or (MTH 122 with a minimum grade of C and 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: Mathematics, No Textbook Required**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, No Textbook Required**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.

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 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 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.

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.

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.

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.

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 perturbation methods.

Pre-req: MTH 300 and MTH 335.

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 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 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.

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 442 🌿 Numerical Linear Algebra**3 Credit hours**

Direct an 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, No Textbook Required

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.

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.

Pre-req: MTH 300 with a minimum grade of C.

Attributes: Mathematics, No Textbook Required

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 D.

Attributes: Capstone Course, No Textbook Required

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 D.

Attributes: Capstone Course, Mathematics, No Textbook Required

Grade Mode: Normal Grading Mode

Mathematics-MCTC (MAT)

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 be covered.

Pre-req: MTH 132 (may be taken concurrently) with a minimum grade of D.

Concurrent PR: MTH 132

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 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: ENGR 318 with a minimum grade of D and ME 310 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 manufacturability evaluation at the design stage, automation, IMS.

Pre-req: ENGR 102 and ENGR 215.

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.

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: ME 310 with a minimum grade of D and ENGR 318 with a minimum grade of D.

Grade Mode: Normal Grading Mode

ME 360 Fluid Dynamics**3 Credit hours**

The following topics will be covered: internal and external flows; compressible flows; power and efficiency; fluid machinery; turbulence; fluid dynamics; non-Newtonian flows.

Pre-req: ENGR 318 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: ENGR 245 with a minimum grade of D and ENGR 335 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.

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 350.

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: ENGR 240 and ME 320.

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 acquisition, 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: ENGR 240.

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.

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: ENGR 245 and MTH 345.

Grade Mode: Normal Grading Mode

ME 480 Special Topics**1-4 Credit hours**

Subject matter to be selected 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.

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.
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.
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.
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.
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.
Pre-req: BSC 228 and MI 206.
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.
Pre-req: BSC 227 and MI 206.
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.
Pre-req: MTH 121 and PHY 101 and PHY 101L.
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.
Pre-req: MI 206.
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.
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.
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.
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.
Pre-req: BSC 228 and MI 204.
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.
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.
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.
Pre-req: MI 303 and MI 304 and MI 208.
Co-req: MI 307, MI 309, MI 310
Grade Mode: Normal Grading Mode

MI 309 Digital Image Acquisition	2 Credit hours	MI 320 Elective Clinical Practicum II	4 Credit hours
Content is designed to impart an understanding of the components, principles and operation of digital imaging systems found in diagnostic radiography.		Elective clinical practicum in radiography or sonography.	
Pre-req: MI 303.		Grade Mode: Normal Grading Mode	
Co-req: MI 305, MI 307, MI 310		MI 321 Imaging Procedures III	4 Credit hours
Grade Mode: Normal Grading Mode		Content is designed to provide the knowledge necessary for advanced diagnostic radiographic imaging procedures.	
MI 310 Clinical Practice V	4 Credit hours	Pre-req: MI 205 and MI 207.	
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.		Grade Mode: Normal Grading Mode	
Pre-req: MI 210 and MI 301 and MI 305.		MI 322 Radiation Safety	3 Credit hours
Co-req: MI 307, MI 308, MI 309		This course focuses on radiation safety including ionizing radiation dose limits for the occupational worker, patient and general public.	
Grade Mode: Normal Grading Mode		Grade Mode: Normal Grading Mode	
MI 311 Seminar Imaging Sciences III	1 Credit hour	MI 401 Seminar in Imaging Sci	1 Credit hour
Seminar on new and emerging technologies in imaging sciences.		Review seminar for the primary ARRT certification examination.	
Grade Mode: Normal Grading Mode		Grade Mode: Normal Grading Mode	
MI 312 Abdominal Sonography I	4 Credit hours	MI 402 Quality Management	3 Credit hours
This course covers basic abdominal sonographic positioning and scanning protocols, as it relates to normal anatomy of the abdomen. Laboratory included.		Advanced practice course in the quality assurance (QA) and quality management (QM) process for imaging sciences.	
Grade Mode: Normal Grading Mode		Grade Mode: Normal Grading Mode	
MI 313 Ultrasound Physics I	3 Credit hours	MI 403 Adv Practice Medical Img	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.		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		Grade Mode: Normal Grading Mode	
MI 314 Clinical Practice I Sonography	4 Credit hours	MI 404 Adv Sectional Anatomy	3 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.		Provides students enrolled in CT/MRI advanced practice track advanced knowledge of sectional anatomy.	
Grade Mode: Normal Grading Mode		Co-req: MI 405, MI 407	
MI 315 Small Parts Sonography	3 Credit hours	Grade Mode: Normal Grading Mode	
This course covers anatomy, positioning and scanning protocol of the superficial structures.		MI 405 CT Procedures	3 Credit hours
Grade Mode: Normal Grading Mode		Focus on advanced patient care skills including ACLS, imaging procedures and equipment in computed tomography.	
MI 316 Abdominal Sonography II	3 Credit hours	Co-req: MI 404, MI 408	
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	
Grade Mode: Normal Grading Mode		MI 406 MRI Procedures	3 Credit hours
MI 317 Ultrasound Physics II	3 Credit hours	Focus on advanced patient care skills including ACLS, imaging procedures and equipment in computed tomography.	
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.		Co-req: MI 404, MI 408	
Grade Mode: Normal Grading Mode		Grade Mode: Normal Grading Mode	
MI 318 Vascular Sonography I	4 Credit hours	MI 407 Cardiovascular Anatomy	3 Credit hours
Discussion of vascular disease, duplex examinations with comparison to arteriography, as it pertains to venous and visceral vascular examinations. Laboratory included.		Focus on advanced cardiovascular anatomy, physiology and pathophysiology including heart anatomy, coronary, systemic, pulmonary, peripheral and cerebral circulation.	
Grade Mode: Normal Grading Mode		Co-req: MI 408	
MI 319 Clinical Prac II Sonography	4 Credit hours	Grade Mode: Normal Grading Mode	
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.		MI 408 Vascular Interventional Img	3 Credit hours
Grade Mode: Normal Grading Mode		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.	
		Grade Mode: Normal Grading Mode	

- MI 410 Research Medical Imaging** 3 Credit hours
Capstone course. Research methods and information literacy.
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.
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 positioning 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 plethysmography 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 diagnostic 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.
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 Echocardiography 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 designed 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 101I)

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 leadership 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.

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 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 building. Develop skills in communications, event planning, group coordination, 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 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 tactics 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 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.

Grade Mode: Normal Grading Mode

MS 211 Ranger Operations & Tech 2 Credit hours

Provides an overview of U.S. Army Ranger history, organization, and mission. small unit tactics, leadership, patrolling 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.

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.

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.

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.

Pre-req: MS 301 and MS 301L.

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.

Co-req: MS 302

Grade Mode: Normal Grading Mode

MS 351 Summer Training Camp 6 Credit hours

A five-week camp at an active army post; it is highly structured and demanding, stressing leadership at small unit levels under varying, challenging conditions. Individual leadership evaluated 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.

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.

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 tradition and law as relating to an Army officer. Prepare for a future as a successful Army lieutenant.

Pre-req: MS 401.

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.

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.

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.

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.

Grade Mode: Normal Grading Mode**MSF 480 Special Topics****1-4 Credit hours**

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.

Grade Mode: Normal Grading Mode**MSF 482 Special Topics****1-4 Credit hours**

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 scheduled 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.

Grade Mode: Normal Grading Mode**MDL 281 Special Topics****1-4 Credit hours**

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.

Grade Mode: Normal Grading Mode**MDL 283 Special Topics****1-4 Credit hours**

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.

Attributes: No Textbook Required**Grade Mode:** Credit/No Credit Grade Only**MUS 101 Basic Musicianship****3 Credit hours****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.

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.

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 D.**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-requisites: 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.

Pre-req: MUS 101 with a minimum grade of C.**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	MUS 179A Class Piano	1 Credit hour
Sight-singing of melodies, and dictation of harmony, rhythm, and melody using elementary rhythms and diatonic pitch materials.		Classes for piano minors and electives progressing from beginner to proficiency level.	
Pre-req: MUS 101 with a minimum grade of C.		Grade Mode: Normal Grading Mode	
Co-req: MUS 111		MUS 179B Class Piano	1 Credit hour
Grade Mode: Normal Grading Mode		Classes for piano minors and electives progressing from beginner to proficiency level.	
MUS 114 Elem Aural Skills II	2 Credit hours	Grade Mode: Normal Grading Mode	
Sight-singing of melodies, and dictation of harmony, rhythm, and melody using diatonic pitch materials in major and minor modes.		MUS 179C Class Piano	1 Credit hour
Introduction to syncopation, secondary dominants, and elementary forms.		Classes for piano minors and electives progressing from beginner to proficiency level.	
Pre-req: MUS 113 with a minimum grade of C.		Grade Mode: Normal Grading Mode	
Co-req: MUS 112		MUS 179D Class Piano	1 Credit hour
Grade Mode: Normal Grading Mode		Classes for piano minors and electives progressing from beginner to proficiency level.	
MUS 142 🌍 Music in Society	3 Credit hours	Grade Mode: Normal Grading Mode	
Exploration of the roles and value of music in culture and society.		MUS 180 Applied Composition	1-2 Credit hours
Development of musical awareness through mastery of basic terminology, stylistic concepts, and critical listening skills. For non-music majors.		Individual studies in composition. May be repeated for credit.	
Attributes: Fine Arts, Multicultural		Attributes: No Textbook Required	
Grade Mode: Normal Grading Mode		Grade Mode: Normal Grading Mode	
MUS 142H 🌍 Music in Society Honors	3 Credit hours	MUS 181 Saxophone	1-2 Credit hours
Exploration of the roles and value of music in culture and society.		Attributes: No Textbook Required	
Development of musical awareness through mastery of basic terminology, stylistic concepts, and critical listening skills. For non-music majors. 3 credits.		Grade Mode: Normal Grading Mode	
Pre-req: Admitted Honors College with a score of 1.		MUS 182 Flute	1-2 Credit hours
Attributes: Fine Arts, Multicultural		Attributes: No Textbook Required	
Grade Mode: Normal Grading Mode		Grade Mode: Normal Grading Mode	
MUS 171 African Drum & Dance Ens	1 Credit hour	MUS 183 Oboe	1-2 Credit hours
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 university students and does not require prior musical training.		Attributes: No Textbook Required	
Attributes: No Textbook Required		Grade Mode: Normal Grading Mode	
Grade Mode: Normal Grading Mode		MUS 184 Clarinet	1-2 Credit hours
MUS 172 Fife and Drum Corps	1 Credit hour	Attributes: No Textbook Required	
Performing, marching, uniformed ensemble devoted to the music of the American Revolution and Chief Justice John Marshall. Instruments featured include fifes and drums.		Grade Mode: Normal Grading Mode	
Attributes: No Textbook Required		MUS 185 Bassoon	1-2 Credit hours
Grade Mode: Normal Grading Mode		Attributes: No Textbook Required	
MUS 174 Irish Ceili Band	1 Credit hour	Grade Mode: Normal Grading Mode	
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.		MUS 186 French Horn	1-2 Credit hours
Grade Mode: Normal Grading Mode		Attributes: No Textbook Required	
MUS 177A Class Guitar	1 Credit hour	Grade Mode: Normal Grading Mode	
Grade Mode: Normal Grading Mode		MUS 187 Trumpet	1-2 Credit hours
MUS 178A Class Voice	1 Credit hour	Attributes: No Textbook Required	
Classes for voice minors and electives designed for beginners.		Grade Mode: Normal Grading Mode	
Grade Mode: Normal Grading Mode		MUS 190 Tuba	1-2 Credit hours
MUS 178B Class Voice	1 Credit hour	Attributes: No Textbook Required	
Classes for voice minors and electives designed for beginners.		Grade Mode: Normal Grading Mode	
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	MUS 208 Orchestra	1 Credit hour
Attributes: No Textbook Required		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.	
Grade Mode: Normal Grading Mode		Attributes: No Textbook Required	
MUS 194 String Bass	1-2 Credit hours	Grade Mode: Normal Grading Mode	
Attributes: No Textbook Required		MUS 210 🎧 Intro to Electronic Music (CT)	3 Credit hours
Grade Mode: Normal Grading Mode		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.	
MUS 195 Piano	1-2 Credit hours	Attributes: Critical Thinking, Fine Arts	
Attributes: No Textbook Required		Grade Mode: Normal Grading Mode	
Grade Mode: Normal Grading Mode		MUS 211 Advanced Music Theory I	2 Credit hours
MUS 196 Voice	1-2 Credit hours	Study of advanced harmonic concepts in tonal music including modulation, altered pre-dominants, and chromatic mediant relationships.	
Attributes: No Textbook Required		Pre-req: MUS 112 with a minimum grade of C and MUS 114 with a minimum grade of C.	
Grade Mode: Normal Grading Mode		Co-req: MUS 213	
MUS 197 Organ	1-2 Credit hours	Grade Mode: Normal Grading Mode	
Attributes: No Textbook Required		MUS 212 Advanced Music Theory II	2 Credit hours
Grade Mode: Normal Grading Mode		The study of musical forms and formal processes found in music of the late 18th through the 19th centuries.	
MUS 198 Percussion	1-2 Credit hours	Pre-req: MUS 211 with a minimum grade of C and MUS 213 with a minimum grade of C.	
Attributes: No Textbook Required		Co-req: MUS 214	
Grade Mode: Normal Grading Mode		Grade Mode: Normal Grading Mode	
MUS 199 Guitar	1-2 Credit hours	MUS 213 Adv Aural Skills I	2 Credit hours
Attributes: No Textbook Required		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)	
Grade Mode: Normal Grading Mode		Pre-req: MUS 112 with a minimum grade of C and MUS 114 with a minimum grade of C.	
MUS 200 🌍 Introduction to World Music	3 Credit hours	Co-req: MUS 211	
This course will survey native musics of Africa, Asia and the Americas as an aspect of culture. No formal background in music is required.		Grade Mode: Normal Grading Mode	
Attributes: Fine Arts, Multicultural		MUS 214 Adv Aural Skills II	2 Credit hours
Grade Mode: Normal Grading Mode		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)	
MUS 203 Choral Union	1 Credit hour	Pre-req: MUS 211 with a minimum grade of C and MUS 213 with a minimum grade of C.	
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.		Co-req: MUS 212	
Attributes: No Textbook Required		Grade Mode: Normal Grading Mode	
Grade Mode: Normal Grading Mode		MUS 217 Jazz Theory	4 Credit hours
MUS 204 University Chorus	1 Credit hour	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	
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.		Pre-req: MUS 211 with a minimum grade of C or MUS 213 with a minimum grade of C.	
Attributes: No Textbook Required		Grade Mode: Normal Grading Mode	
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 styles. 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.			
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.			
Attributes: No Textbook Required			
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 and MUS 114. 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) 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 219 Digital Recording Techniques 2 Credit hours Concepts, implementation, and utilization 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 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. Attributes: No Textbook Required 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. Grade Mode: Normal Grading Mode	MUS 250 Survey of Jazz 3 Credit hours A survey of the development of jazz and related forms from the 19th century antecedents to recent experimental trends. 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. Pre-req: MUS 222 with a minimum grade of C. 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. Attributes: No Textbook Required 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. Grade Mode: Normal Grading Mode	MUS 253 Guitar Ensemble 1 Credit hour Attributes: No Textbook Required 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 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 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. Attributes: No Textbook Required 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 Pre-req: MUS 231 with a minimum grade of C. Grade Mode: Normal Grading Mode	MUS 255 String Ensemble 1 Credit hour Attributes: No Textbook Required 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 256 Woodwind Ensemble 1 Credit hour Attributes: No Textbook Required 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 257 Percussion Ensemble 1 Credit hour 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 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. 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 Grade Mode: Normal Grading Mode	1 Credit hour	MUS 280 Special Topics Grade Mode: Normal Grading Mode	1-4 Credit hours
MUS 264 Percussion Techniques Grade Mode: Normal Grading Mode	1 Credit hour	MUS 281 Special Topics Grade Mode: Normal Grading Mode	1-4 Credit hours
MUS 265 Symphonic Band Attributes: No Textbook Required Grade Mode: Normal Grading Mode	1 Credit hour	MUS 282 Special Topics Grade Mode: Normal Grading Mode	1-4 Credit hours
MUS 266 Marching Thunder Attributes: No Textbook Required Grade Mode: Normal Grading Mode	1 Credit hour	MUS 283 Special Topics Grade Mode: Normal Grading Mode	1-4 Credit hours
MUS 267 Wind Symphony Attributes: No Textbook Required Grade Mode: Normal Grading Mode	1 Credit hour	MUS 290 Music History to 1750 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	3 Credit hours
MUS 268 Sixth Man Band Attributes: No Textbook Required Grade Mode: Normal Grading Mode	1 Credit hour	MUS 301 Analysis 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	3 Credit hours
MUS 269 Contemporary Music Ens Performance of contemporary music in various media. May be repeated for credit. Counts towards improvisation requirement. Grade Mode: Normal Grading Mode	1 Credit hour	MUS 302 Advanced Analysis 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	2 Credit hours
MUS 270 Musical Prods Practicum 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	1 Credit hour	MUS 304 Styles 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	2 Credit hours
MUS 271 Guitar Techniques 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	1 Credit hour	MUS 308 Music and Sound in Film 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	3 Credit hours
MUS 279A Jazz Piano Class 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	1 Credit hour	MUS 310 Perf Arts Entrepreneurship 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	1 Credit hour
MUS 279B Jazz Piano Class 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	1 Credit hour	MUS 312 Vocal Techniques 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	1 Credit hour
MUS 279C Jazz Piano Class 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	1 Credit hour		
MUS 279D Jazz Piano Class 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	1 Credit hour		

- 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.
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.
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.
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)
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
Pre-req: MUS 217 with a minimum grade of C.
Grade Mode: Normal Grading Mode
- MUS 327 Intro to Music Business** **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
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-Caribbean 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)
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.
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)
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.
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
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
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 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 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	MUS 391 Violin	1-2 Credit hours
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	
Attributes: No Textbook Required		Grade Mode: Normal Grading Mode	
MUS 374 Irish Ceili Band	1 Credit hour	MUS 392 Viola	1-2 Credit hours
Grade Mode: Normal Grading Mode		Attributes: No Textbook Required	
MUS 376 Recital	1 Credit hour	Grade Mode: Normal Grading Mode	
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		MUS 393 Cello	1-2 Credit hours
Attributes: No Textbook Required		Attributes: No Textbook Required	
Grade Mode: Normal Grading Mode		Grade Mode: Normal Grading Mode	
MUS 379 Advanced Class Piano	1 Credit hour	MUS 394 String Bass	1-2 Credit hours
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.		Attributes: No Textbook Required	
Pre-req: MUS 179D with a minimum grade of C.		Grade Mode: Normal Grading Mode	
Grade Mode: Normal Grading Mode		MUS 395 Piano	1-2 Credit hours
MUS 380 Applied Composition	2 Credit hours	Attributes: No Textbook Required	
Pre-req: MUS 212 with a minimum grade of C and MUS 214 with a minimum grade of C.		Grade Mode: Normal Grading Mode	
Attributes: No Textbook Required		MUS 396 Voice	1-2 Credit hours
Grade Mode: Normal Grading Mode		Attributes: No Textbook Required	
MUS 381 Saxophone	1-2 Credit hours	Grade Mode: Normal Grading Mode	
Attributes: No Textbook Required		MUS 397 Organ	1-2 Credit hours
Grade Mode: Normal Grading Mode		Attributes: No Textbook Required	
MUS 382 Flute	1-2 Credit hours	Grade Mode: Normal Grading Mode	
Attributes: No Textbook Required		MUS 398 Percussion	1-2 Credit hours
Grade Mode: Normal Grading Mode		Attributes: No Textbook Required	
MUS 383 Oboe	1-2 Credit hours	Grade Mode: Normal Grading Mode	
Attributes: No Textbook Required		MUS 399 Guitar	1-2 Credit hours
Grade Mode: Normal Grading Mode		Attributes: No Textbook Required	
MUS 384 Clarinet	1-2 Credit hours	Grade Mode: Normal Grading Mode	
Attributes: No Textbook Required		MUS 400 Collaborative Composition	2 Credit hours
Grade Mode: Normal Grading Mode		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)	
MUS 385 Bassoon	1-2 Credit hours	Grade Mode: Normal Grading Mode	
Attributes: No Textbook Required		MUS 401 Research in Music	3 Credit hours
Grade Mode: Normal Grading Mode		Basic research procedures and bibliography study culminating in a project in the student's area of specialization.	
MUS 386 French Horn	1-2 Credit hours	Pre-req: MUS 301 with a minimum grade of C and MUS 361 with a minimum grade of C.	
Attributes: No Textbook Required		Grade Mode: Normal Grading Mode	
Grade Mode: Normal Grading Mode		MUS 402 Chamber Music Pedagogy	2 Credit hours
MUS 387 Trumpet	1-2 Credit hours	A survey of chamber music pedagogy literature, and a practicum in teaching chamber music. (PR: Permission)	
Attributes: No Textbook Required		Grade Mode: Normal Grading Mode	
Grade Mode: Normal Grading Mode		MUS 403 Choral Union	1 Credit hour
MUS 388 Trombone	1-2 Credit hours	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		Attributes: No Textbook Required	
Grade Mode: Normal Grading Mode		Grade Mode: Normal Grading Mode	
MUS 389 Euphonium	1-2 Credit hours	MUS 404 University Chorus	1 Credit hour
Attributes: No Textbook Required		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.	
Grade Mode: Normal Grading Mode		Attributes: No Textbook Required	
MUS 390 Tuba	1-2 Credit hours	Grade Mode: Normal Grading Mode	
Attributes: No Textbook Required			
Grade Mode: Normal Grading Mode			

MUS 405 A Cappella Ensemble**1 Credit hour**

A mixed a cappella 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.

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.

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.

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 Commerical Music Business****2 Credit hours**

An in-depth examination of the commercial 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.

Grade Mode: Normal Grading Mode**MUS 432 Electronic Music Comp****2 Credit hours**

The theory and practice of the use of electronic mediums of composition. Synthesizer and tape recording techniques will be emphasized. Primarily for music majors.

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.

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.

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 A survey of guitar pedagogy literature, and a practicum in teaching classical guitar. Grade Mode: Normal Grading Mode	2 Credit hours	MUS 470 Musical Prods Practicum 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	1 Credit hour
MUS 452 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	1 Credit hour	MUS 476 Senior Recital The culminating recital for applied music study in the principal applied area. Pre-req: MUS 376 with a minimum grade of C. Grade Mode: Credit/No Credit Grade Only	0 Credit hours
MUS 453 Guitar Ensemble Attributes: No Textbook Required Grade Mode: Normal Grading Mode	1 Credit hour	MUS 479 Applied Pedagogy Lab Practical application of concepts, methodology, and materials covered to demonstrate efficient and effective teaching in the applied area. Grade Mode: Normal Grading Mode	1 Credit hour
MUS 454 Flute Ensemble 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	1 Credit hour	MUS 480 Special Topics Grade Mode: Normal Grading Mode	1-4 Credit hours
MUS 455 String Ensemble Attributes: No Textbook Required Grade Mode: Normal Grading Mode	1 Credit hour	MUS 481 Special Topics Grade Mode: Normal Grading Mode	1-4 Credit hours
MUS 456 Woodwind Ensemble Attributes: No Textbook Required Grade Mode: Normal Grading Mode	1 Credit hour	MUS 482 Special Topics Grade Mode: Normal Grading Mode	1-4 Credit hours
MUS 457 Percussion Ensemble Attributes: No Textbook Required Grade Mode: Normal Grading Mode	1 Credit hour	MUS 483 Special Topics Grade Mode: Normal Grading Mode	1-4 Credit hours
MUS 458 Brass Ensemble Attributes: No Textbook Required Grade Mode: Normal Grading Mode	1 Credit hour	MUS 485 Independent Study Attributes: No Textbook Required Grade Mode: Normal Grading Mode	1-4 Credit hours
MUS 459 Jazz Ensemble Attributes: No Textbook Required Grade Mode: Normal Grading Mode	1 Credit hour	MUS 486 Independent Study Attributes: No Textbook Required Grade Mode: Normal Grading Mode	1-4 Credit hours
MUS 460 Jazz Improv Ensemble 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	1 Credit hour	MUS 487 Independent Study Attributes: No Textbook Required Grade Mode: Normal Grading Mode	1-4 Credit hours
MUS 465 Symphonic Band Attributes: No Textbook Required Grade Mode: Normal Grading Mode	1 Credit hour	MUS 488 Independent Study Attributes: No Textbook Required Grade Mode: Normal Grading Mode	1-4 Credit hours
MUS 466 Marching Thunder Attributes: No Textbook Required Grade Mode: Normal Grading Mode	1 Credit hour	MUS 494 Workshop Grade Mode: Normal Grading Mode	1-4 Credit hours
MUS 467 Wind Symphony Attributes: No Textbook Required Grade Mode: Normal Grading Mode	1 Credit hour	MUS 495 Music Internship Practical synthesis and application of knowledge and skills gained during the student's course of study. Pre-req: MUS 376. Grade Mode: Normal Grading Mode	1-4 Credit hours
MUS 468 Sixth Man Band Attributes: No Textbook Required Grade Mode: Normal Grading Mode	1 Credit hour	MUS 496 Musical Theatre Capstone A culminating Musical Theatre performance and critical self-reflection. Students develop proposals with input from faculty mentor. Grade Mode: Normal Grading Mode	1 Credit hour
MUS 469 Contemporary Music Ens Performance of contemporary music in various media. May be repeated for credit. Counts towards improvisation requirement. Grade Mode: Normal Grading Mode	1 Credit hour	MUS 497 🌿 Capstone Project in Music 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	1-2 Credit hours

MUS 498 🎋 BFA Composition Capstone 2 Credit hours

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 🌿 Discussions in Envriion Science 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 of Nat Res 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 or NRE 111) or BSC 104 or BSC 120.

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 or IST 323 or NRE 323.

Grade Mode: Normal Grading Mode

NRE 470 ES Internship**3 Credit hours**

A supervised internship in an area of natural resources and the environment.

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.

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	NRRM 301 Intro to Outdoor Recreation	3 Credit hours
An orientation to the profession and its settings, emphasizing history, trends, concepts, and relationships to other fields.		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		Grade Mode: Normal Grading Mode	
NRRM 110 Outdoor Leadership: Canoeing	1 Credit hour	NRRM 310 Environmental Interpretation	3 Credit hours
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.		Principles and techniques of environmental interpretation as practiced in federal, state, and private agencies.	
Grade Mode: Normal Grading Mode		Grade Mode: Normal Grading Mode	
NRRM 111 Outdoor Leadership: Fly Fish	1 Credit hour	NRRM 311 Intro to Environmental Educ	3 Credit hours
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.		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		Grade Mode: Normal Grading Mode	
NRRM 112 Outdoor Leadership: Bass Fish	1 Credit hour	NRRM 320 Sports & Campus Rec Mgmt	3 Credit hours
This course is designed to give students the skills essential to pursue employment as a guide on bass fishing excursions in the backcountry.		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		Grade Mode: Normal Grading Mode	
NRRM 113 Outdoor Leadership: Backpack	1 Credit hour	NRRM 330 Concepts Philosophies in NRRM	3 Credit hours
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.		A systematic approach to the concepts and philosophies for managing wildland, wilderness, and protected areas.	
Grade Mode: Normal Grading Mode		Grade Mode: Normal Grading Mode	
NRRM 156 Bicycling	1 Credit hour	NRRM 340 Special Event Managment	3 Credit hours
Grade Mode: Normal Grading Mode		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.	
NRRM 158 Downhill Skiing	1 Credit hour	Grade Mode: Normal Grading Mode	
Grade Mode: Normal Grading Mode		NRRM 350 Adventure Education Leadership	3 Credit hours
NRRM 200 Analytical Methods: Statistics	4 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.	
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	
Grade Mode: Normal Grading Mode		NRRM 360 Tourism Planning & Management	3 Credit hours
NRRM 201 Recreational Activities	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		Grade Mode: Normal Grading Mode	
NRRM 231 Nature Study	3 Credit hours	NRRM 361 Visitor Behavior in NRRM	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.		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		Grade Mode: Normal Grading Mode	
NRRM 280 Special Topics	1-4 Credit hours	NRRM 362 Ecotourism: Admin and Mgmt	3 Credit hours
Grade Mode: Normal Grading Mode		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.	
NRRM 281 Special Topics	1-4 Credit hours	Grade Mode: Normal Grading Mode	
Grade Mode: Normal Grading Mode		NRRM 380 Rec Resource Oper. and Admin	3 Credit hours
NRRM 282 Special Topics	1-4 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		Grade Mode: Normal Grading Mode	
NRRM 283 Special Topics	1-4 Credit hours		
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

Introduce the nursing role and use of the nursing process in assisting adult clients to meet basic needs. Clinical included.

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 314 (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 314 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.

Pre-req: (MTH 121 with a minimum grade of C or MTH 121B with a minimum grade of C and 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.

Concurrent PR: NUR 221

Co-req: 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) 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 281 Special Topics 1-4 Credit hours Grade Mode: Credit/No Credit Grade Only
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. Pre-req: (MTH 121 or MTH 121B and MTH 125 or MTH 127 or MTH 130) and BSC 227 and BSC 228 and (CHM 203 or CHM 205) and PSY 201 and NUR 219 (may be taken concurrently) and ENG 101. Concurrent PR: NUR 219 Co-req: NUR 219 Grade Mode: Normal Grading Mode	NUR 282 Special Topics 1-4 Credit hours 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. 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 283 Special Topics 1-4 Credit hours 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 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. 4 lec. 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) Pre-req: NUR 120 with a minimum grade of C. 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. Option Students PR: NUR 219, NUR 305) Pre-req: NUR 221 and NUR 219 or NUR 305 (may be taken concurrently) and (ENG 201 or ENG 201H or ENG 200H). Concurrent PR: NUR 305 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. 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 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. 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 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) 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 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. Pre-req: NUR 222 and NUR 319 and (ENG 201 or ENG 200H or ENG 201H) and BSC 250 and DTS 314 and NUR 318 (may be taken concurrently). Concurrent PR: NUR 318 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) 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 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. Pre-req: NUR 222 and NUR 319 and (ENG 201 or ENG 200H or ENG 201H) and BSC 250 and DTS 314. Grade Mode: Normal Grading Mode
NUR 280 Special Topics 1-4 Credit hours Grade Mode: Normal Grading Mode	NUR 323 Nurs Human Responses III 5 Credit hours Focus is on nursing care of clients of all ages responding to common health problems. Practicum included. Pre-req: NUR 222 and NUR 319 and (ENG 201 or ENG 200H or ENG 201H) and BSC 250 and DTS 314. Grade Mode: Normal Grading Mode
	NUR 324 Nurs Human Responses IV 5 Credit hours Focus in on nursing care of clients of all ages responding to potential and actual complex alterations in health in relation to specific body systems. Practicum included. (PR: NUR 323, CR: HEC 404) Pre-req: NUR 323 and NUR 318 and NUR 350. Grade Mode: Normal Grading Mode

NUR 325 Nurs Human Responses V**5 Credit hours**

Focus is on nursing care of clients of all ages responding to potential and actual complex alterations in health in relation to specific body systems. Practicum included. (PR: NUR 323, CR: HEC 404)

Pre-req: NUR 324 and NUR 326.**Grade Mode:** Normal Grading Mode**NUR 326 Nursing Care of Children****3 Credit hours**

Focus is on nursing care of pediatric clients of all ages and their families response to common and complex health problems.

Pre-req: NUR 323 and NUR 318 and NUR 350.**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 and NUR 319 and ENG 201 and BSC 250 and DTS 314.**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 and NUR 327 and NUR 350.**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)

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) or (NUR 221 and NUR 219).**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 and NUR 327 and NUR 350.**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 and NUR 318.**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.**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: (MTH 225 with a minimum grade of D or STA 225 with a minimum grade of D or EDF 417 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) and (NUR 305 with a minimum grade of D or NUR 327 with a minimum grade of D).

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.**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 (may be taken concurrently) with a minimum grade of D.**Concurrent PR:** NUR 328**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. (PR: HEC 404, NUR 324 CR: NUR 409, NUR 325)

Pre-req: NUR 321 and NUR 322 and NUR 324 and NUR 326 and NUR 350.**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.

Pre-req: (NUR 321 and NUR 322 and NUR 325 and NUR 350) and (NUR 416 (may be taken concurrently) and NUR 419 (may be taken concurrently) and NUR 421 (may be taken concurrently)) and (NUR 425 (may be taken concurrently)).

Concurrent PR: (NUR 416 and NUR 419 and NUR 421) and (NUR 425)**Attributes:** Capstone Course**Grade Mode:** Normal Grading Mode**NUR 422L 🌍 Role Synthesis Practicum****5 Credit hours**

Focus is on leadership activities related to the roles of the professional nurse: provider of care, coordinator of care, and member of the profession through supervised clinical practice. (PR: NUR 325)

Pre-req: NUR 325.**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).

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 416, NUR 418, NUR 421)

Pre-req: NUR 305 and NUR 416 (may be taken concurrently) and NUR 418 (may be taken concurrently) and NUR 410 (may be taken concurrently).

Concurrent PR: NUR 416 and NUR 418 and NUR 410

Attributes: Capstone Course

Grade Mode: Normal Grading Mode

NUR 480 Special Topics**1-4 Credit hours**

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.

Grade Mode: Normal Grading Mode

NUR 482 Special Topics**1-4 Credit hours**

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.

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.

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.

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.

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 Existence**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 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.

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.

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.

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.

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.

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 stand- points (for example, racial, gender, and ethnic differences).

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.

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).

Grade Mode: Normal Grading Mode

PHL 320 🌍 Comparative Philosophy**3 Credit hours**

The relations of the world's philosophies 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.

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.

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.

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.

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.

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 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 303E 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 400 Ancient Philosophy**3 Credit hours**

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**

Rationale: "Western" is redundant, since it is debatable whether the term "philosophy" can be extended to non- Western disciplines. Similarly, current philosophy courses do not specify "Western." Rationale: "

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).

Grade Mode: Normal Grading Mode

PHL 421 Philosophy of Knowledge**3 Credit hours**

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.

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.

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.

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 research 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.

Grade Mode: Normal Grading Mode**PHL 482 Special Topics 1-4 Credit hours**

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.

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 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 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 Attributes: No Textbook Required, PE Activity Grade Mode: Normal Grading Mode	1 Credit hour	PEL 234 Intermediate Wrestling Attributes: PE Activity Grade Mode: Normal Grading Mode	1 Credit hour
PEL 145 Beginning Bowling Attributes: PE Activity Grade Mode: Normal Grading Mode	1 Credit hour	PEL 235 Intermediate Softball Attributes: PE Activity Grade Mode: Normal Grading Mode	1 Credit hour
PEL 147 Beginning Soccer Attributes: No Textbook Required, PE Activity Grade Mode: Normal Grading Mode	1 Credit hour	PEL 240 Intermediate Tennis Attributes: PE Activity Grade Mode: Normal Grading Mode	1 Credit hour
PEL 155 Beginning Folk Dance Attributes: PE Activity Grade Mode: Normal Grading Mode	1 Credit hour	PEL 242 Intermediate Badminton Attributes: PE Activity Grade Mode: Normal Grading Mode	1 Credit hour
PEL 156 Beginning Square Dance Attributes: PE Activity Grade Mode: Normal Grading Mode	1 Credit hour	PEL 243 Intermediate Basketball Attributes: PE Activity Grade Mode: Normal Grading Mode	1 Credit hour
PEL 159 Beginning Social Dance Attributes: PE Activity Grade Mode: Normal Grading Mode	1 Credit hour	PEL 245 Intermediate Bowling Attributes: PE Activity Grade Mode: Normal Grading Mode	1 Credit hour
PEL 170 Beginning Racquetball Attributes: No Textbook Required, PE Activity Grade Mode: Normal Grading Mode	1 Credit hour	PEL 251 Intermediate Soccer Attributes: No Textbook Required, PE Activity Grade Mode: Normal Grading Mode	1 Credit hour
PEL 171 Beginning Handball Attributes: PE Activity Grade Mode: Normal Grading Mode	1 Credit hour	PEL 252 Touch Football Attributes: No Textbook Required, PE Activity Grade Mode: Normal Grading Mode	1 Credit hour
PEL 173 Rock Climbing Through activity, the students will learn the fundamentals and techniques of rock climbing. Attributes: No Textbook Required, PE Activity Grade Mode: Normal Grading Mode	1 Credit hour	PEL 258 Intermediate Square Dance Attributes: PE Activity Grade Mode: Normal Grading Mode	1 Credit hour
PEL 175 Core Conditioning 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	1 Credit hour	PEL 259 Intermediate Social Dance Attributes: PE Activity Grade Mode: Normal Grading Mode	1 Credit hour
PEL 180 Yoga Attributes: No Textbook Required, PE Activity Grade Mode: Normal Grading Mode	1 Credit hour	PEL 270 Intermediate Racquetball Attributes: PE Activity Grade Mode: Normal Grading Mode	1 Credit hour
PEL 205 Intermediate Swimming Attributes: No Textbook Required, PE Activity Grade Mode: Normal Grading Mode	1 Credit hour	PEL 271 Intermediate Handball Attributes: PE Activity Grade Mode: Normal Grading Mode	1 Credit hour
PEL 220 Advanced Self Defense 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. Attributes: No Textbook Required, PE Activity Grade Mode: Normal Grading Mode	1 Credit hour	PEL 275 Scuba Diving Attributes: PE Activity Grade Mode: Normal Grading Mode	2 Credit hours
PEL 232 Intermediate Volleyball Attributes: No Textbook Required, PE Activity Grade Mode: Normal Grading Mode	1 Credit hour	PEL 280 Special Topics Attributes: No Textbook Required, PE Activity Grade Mode: Normal Grading Mode	1-4 Credit hours
PEL 233 Intermediate Gymnastics Attributes: PE Activity Grade Mode: Normal Grading Mode	1 Credit hour	PEL 281 Special Topics Attributes: No Textbook Required, PE Activity Grade Mode: Normal Grading Mode	1-4 Credit hours
		PEL 282 Special Topics Attributes: No Textbook Required, PE Activity Grade Mode: Normal Grading Mode	1-4 Credit hours
		PEL 283 Special Topics Attributes: No Textbook Required, PE Activity Grade Mode: Normal Grading Mode	1-4 Credit hours

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.

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 Education (PE)

 - General Education Course

PE 127 Aerobics-Personal Fitness**1 Credit hour**

A course designed to provide the information necessary for the development of an individualized aerobic fitness program.

Attributes: PE Activity

Grade Mode: Normal Grading Mode

PE 255 AT Clinical Exp: Level I**3 Credit hours**

To develop beginning evaluation and treatment skills of the student under the direction of NATA certified Athletic Trainer. Requires 200 clinical hours.

Grade Mode: Normal Grading Mode

PE 360 AT Clinical Exp: Level II**3 Credit hours**

To develop evaluation and treatment skills of the student under the direction of NATA certified Athletic Trainer. Requires 200 clinical hours.

Pre-req: PE 255.

Grade Mode: Normal Grading Mode

PE 361 AT Clinical Exp: Level III**3 Credit hours**

To develop evaluation and treatment skills of the student under the direction of NATA certified Athletic Trainer. Requires 200 clinical hours.

Pre-req: PE 360.

Grade Mode: Normal Grading Mode

PE 448 Therapeutic Mod in Ath Trng**5 Credit hours**

Investigation and analysis of therapeutic modalities including indications, contraindications, biophysics and procedures. Includes a lab. (PR: PE 201, PE 215 & Permission)

Pre-req: PE 201 and PE 215.

Grade Mode: Normal Grading Mode

PE 479 Trends Athletic Training**3 Credit hours**

To provide an indepth analysis of current trends with regard to administration, liability, and insurance. Cover current standards in surgery, rehabilitation, and evaluation of sport related injuries.

Pre-req: PE 422.

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.

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.

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 meteorology. 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.

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 Attributes: Natural Sciences Grade Mode: Normal Grading Mode	1-4 Credit hours	PS 480 Special Topics Attributes: Natural Sciences Grade Mode: Normal Grading Mode	1-4 Credit hours
PS 281 Special Topics Attributes: Natural Sciences Grade Mode: Normal Grading Mode	1-4 Credit hours	PS 481 Special Topics Attributes: Natural Sciences Grade Mode: Normal Grading Mode	1-4 Credit hours
PS 282 Special Topics Attributes: Natural Sciences Grade Mode: Normal Grading Mode	1-4 Credit hours	PS 482 Special Topics Attributes: Natural Sciences Grade Mode: Normal Grading Mode	1-4 Credit hours
PS 283 Special Topics Attributes: Natural Sciences Grade Mode: Normal Grading Mode	1-4 Credit hours	PS 483 Special Topics Attributes: Natural Sciences Grade Mode: Normal Grading Mode	1-4 Credit hours
PS 325 Dev Scientific Thought 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	4 Credit hours	PS 485 Independent Study Attributes: Natural Sciences Grade Mode: Normal Grading Mode	1-4 Credit hours
PS 400 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	3 Credit hours	PS 486 Independent Study Attributes: No Textbook Required, Natural Sciences Grade Mode: Normal Grading Mode	1-4 Credit hours
PS 400L Astronomy Laboratory 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	1 Credit hour	PS 487 Independent Study Attributes: Natural Sciences Grade Mode: Normal Grading Mode	1-4 Credit hours
PS 410 Remote Sensing w Applications 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	4 Credit hours	PS 488 Independent Study Attributes: Natural Sciences Grade Mode: Normal Grading Mode	1-4 Credit hours
PS 411 Image Processing/Modeling 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	4 Credit hours		
PS 470 Practicum 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	4 Credit hours		

Physics (PHY)

 - General Education Course

PHY 101  Conceptual Physics 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 or MTH 127 or MTH 130 or MTH 130E or MTH 229 or MTH 229H or MTH 203 or MTH 121B) or MTH 130H and PHY 101L (may be taken concurrently). Concurrent PR: PHY 101L Co-req: PHY 101L Attributes: Natural Sciences, Core II Natural Sciences Grade Mode: Normal Grading Mode	3 Credit hours
PHY 101L  Conceptual Physics 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	1 Credit hour
PHY 190  Overview of Physics (CT) 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	3 Credit hours

PHY 201 🌿 College Physics I**3 Credit hours**

First half of an introduction to physics for life-science students, using algebra and vectors by triangles: force, energy, particle dynamics, rotation, fluids, waves, thermal phenomena.

Pre-req: (MTH 127 and MTH 122) or (MTH 130 and MTH 122) or MTH 132 or (MTH 140 and MTH 122) or MTH 229 or MTH 229H or MTH 140H and PHY 202 (may be taken concurrently).

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) or PHY 211 (may be taken concurrently).

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 students of natural (life) sciences, using algebra and vectors by triangles: E&M fields, circuits; ray optics, interference; atoms, nuclei.

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) or PHY 213 (may be taken concurrently)).

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 students of physical science or engineering, using calculus and vectors by components: force, energy, particle dynamics, rotation, fluids, waves, thermodynamics.

Pre-req: (MTH 229 (may be taken concurrently) or MTH 229H (may be taken concurrently)) and PHY 202 (may be taken concurrently).

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 students of physical science or engineering, using calculus and vectors by components: E&M fields, circuits; ray optics, interference; atoms, nuclei.

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.

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 opportunity to work with modern research equipment, with ample time to conduct experiments and/or investigate phenomena 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 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 282 Special Topics**1-4 Credit hours**

Attributes: Natural Sciences

Grade Mode: Normal Grading Mode

PHY 283 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, 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.

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.

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.

Pre-req: PHY 203 or PHY 213 and PHY 415 (may be taken concurrently).

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.

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.

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**

Physics principles applied to devise methods for diagnostic and treatment of the human body. Will enhance writing skills and strategies. 2lec-2lab.

Pre-req: (PHY 203 or PHY 213) and PHY 204.

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 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).

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.

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.

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.

Pre-req: PHY 442 or CHM 442.

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.

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)

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.

Attributes: Natural Sciences

Grade Mode: Normal Grading Mode

PHY 481 Special Topics**1-4 Credit hours**

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.

Attributes: Natural Sciences

Grade Mode: Normal Grading Mode

PHY 483 Special Topics**1-4 Credit hours**

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 experience 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)

Pre-req: PHY 491.

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 constitutionalism, 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.

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.

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.

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.

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.

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.

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.

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.

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.

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.

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)

Attributes: American Institutions

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.

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.

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.

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.

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.

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.

Attributes: American Institutions

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.

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.

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.

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.

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 Britain 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.

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.

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.

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 economic 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.

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.

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.

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.

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.

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 political 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.

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.

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.

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 perspectives 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.

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.

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.

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.

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.

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.

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.

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.

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.

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.

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.

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 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 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 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 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 philosophy to contemporary political questions. Capstone experience 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.

Grade Mode: Normal Grading Mode

PSY 201 🌱 Introductory Psychology (CT)**3 Credit hours**

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.

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.

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.

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 exercises 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 projection, 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.
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.
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.
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.
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.
Pre-req: PSY 223.
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.
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.
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.
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 aggression.
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 403 Applied Social Psychology** **3 Credit hours**
 Examination of the applications of social psychological methods, theories, principles and research findings to the understanding or solution of social problems.
Pre-req: PSY 302.
Grade Mode: Normal Grading Mode
- PSY 406 Psychometrics** **3 Credit hours**
 Mental test theory and applications.
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.
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.
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.
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.
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.
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 or PSY 201E or PSY 201H.
Grade Mode: Normal Grading Mode
- PSY 422 Psychology of Machines** **3 Credit hours**
 Human factors are integral in the design of today's products. This class focuses on the psychological principles involved in current technologies and psychology's use to create better products.
Grade Mode: Normal Grading Mode

PSY 424 Environmental Psychology**3 Credit hours**

This course will focus on human interactions with the natural and built environment. We will examine human behavior and experiences. Topics will range from natural phenomenon to human constructed environments.

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.

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 427 Computer Applications in PSY****3 Credit hours**

An introduction to computer applications in psychology, emphasizing data collection, management, organization, analysis and reporting.

Pre-req: PSY 201 or PSY 201E or PSY 201H and PSY 223.**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.

Pre-req: PSY 201 or PSY 201H.**Grade Mode:** Normal Grading Mode**PSY 433 Currnt Models Psychotherapy****3 Credit hours**

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.

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.

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.

Pre-req: PSY 201 or PSY 201E or PSY 201H.**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.

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.

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/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 418 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: 12 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.

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	PH 220 Social & Behavioral Health	3 Credit hours
Pre-req: PSY 201 or PSY 201H.		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		Grade Mode: Normal Grading Mode	
PSY 483 Special Topics	1-4 Credit hours	PH 240 Control of Infectious Diseases	3 Credit hours
Pre-req: PSY 201 or PSY 201H.		Examination of infectious diseases from a public health perspective, including strategies for prevention, treatment, control and eradication.	
Grade Mode: Normal Grading Mode		Pre-req: PH 105.	
PSY 485 Independent Study	1-4 Credit hours	Grade Mode: Normal Grading Mode	
A course or seminar on some aspect of Psychology not other- wise treated in regular course offerings.		PH 260 Community Health & Devtp	3 Credit hours
Pre-req: PSY 201 with a minimum grade of D or PSY 201H with a minimum grade of D.		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		Grade Mode: Normal Grading Mode	
PSY 486 Independent Study	1-4 Credit hours	PH 270 🌍 Global Health (CT)	3 Credit hours
A course or seminar on some aspect of Psychology not other- wise treated in regular course offerings.		This course provides students the opportunity to study healthcare systems in developed and developing countries and compare these systems to the US healthcare systems.	
Pre-req: PSY 201 or PSY 201E or PSY 201H.		Attributes: Critical Thinking, International	
Attributes: No Textbook Required		Grade Mode: Normal Grading Mode	
Grade Mode: Normal Grading Mode		PH 280 Public Health Special Topics	1-4 Credit hours
PSY 487 Independent Study	1-4 Credit hours	With permission of program director.	
A course or seminar on some aspect of Psychology not other- wise treated in regular course offerings.		Grade Mode: Normal Grading Mode	
Pre-req: PSY 201 or PSY 201H.		PH 281 Public Health Special Topics	1-4 Credit hours
Grade Mode: Normal Grading Mode		With permission of program director.	
PSY 488 Independent Study	1-4 Credit hours	Grade Mode: Normal Grading Mode	
A course or seminar on some aspect of Psychology not other- wise treated in regular course offerings.		PH 282 Public Health Special Topics	1-4 Credit hours
Pre-req: PSY 201 or PSY 201H.		With permission of program director.	
Grade Mode: Normal Grading Mode		Grade Mode: Normal Grading Mode	
PSY 490 🌍 Intro to Teaching in Psych	3 Credit hours	PH 283 Public Health Special Topics	1-4 Credit hours
This course is designed to provide students with an introductory experience to teaching in psychology.		With permission of program director.	
Attributes: Capstone Course		Grade Mode: Normal Grading Mode	
Grade Mode: Normal Grading Mode		PH 285 Environmental Health	3 Credit hours
PSY 491 🌍 Intro to Teaching in Psych	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.	
This course is designed to provide students with an introductory experience to teaching in psychology.		Grade Mode: Normal Grading Mode	
Attributes: Capstone Course		PH 301 PH Sys Design & Decision Analy	3 Credit hours
Grade Mode: Normal Grading Mode		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.	
PSY 499 🌍 PSY Capstone Seminar	3 Credit hours	Grade Mode: Normal Grading Mode	
A capstone course which integrates research methods, critical analysis, and problem solving applied to psychological questions and issues.		PH 302 Know & Info in Practice of PH	3 Credit hours
Pre-req: PSY 223 with a minimum grade of D and PSY 323 with a minimum grade of D.		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.	
Attributes: Capstone Course		Grade Mode: Normal Grading Mode	
Grade Mode: Normal Grading Mode		PH 305 Fdn & Form of PH Policy	3 Credit hours

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 & Devtp	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.	
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.	
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.

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.

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 and PH 270.

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 Traditions of West**3 Credit hours**

A comparative study of major religious traditions of the Western world: Judaism, Christianity, Islam, Zoroastrianism 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.

Attributes: Core II Humanities, International

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.

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.

Attributes: Core II Humanities, Literature

Grade Mode: Normal Grading Mode

RST 250 🌿 Studies in Humanities (CT)**3 Credit hours**

An interdisciplinary course to introduce students to the elements of a humanistic education. (Same as Classical Studies 150 and Philosophy 150).

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

RST 280 Special Topics**1-4 Credit hours**

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.

Grade Mode: Normal Grading Mode

RST 282 Special Topics**1-4 Credit hours**

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.

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.

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.

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.

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.

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.

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?

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.

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.

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)

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.

Grade Mode: Normal Grading Mode

RST 351 Classics of Rel Lit**3 Credit hours**

A contextual analysis of selected popular religious 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.

Grade Mode: Normal Grading Mode

RST 361 🌿 Buddhism**3 Credit hours**

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, 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 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 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 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 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.

Grade Mode: Normal Grading Mode

RST 450 Sociology of Religion**3 Credit hours**

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**

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 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 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 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) and BSC 228 and BSC 250 and RSP 101 and RSP 102 and RSP 102L.

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 and BSC 228.**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 and BSC 228.**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 and BSC 228.**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, sequelae, and treatment. The respiratory therapist's role in the recognition and treatment of pulmonary diseases is highlighted.

Pre-req: BSC 227 and BSC 228 and BSC 250 and RSP 101 and RSP 102 and RSP 102L.**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 and BSC 228 and BSC 250 and RSP 101 and RSP 102 and RSP 102L.**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 and BSC 228 and BSC 250 and RSP 101 and RSP 102 and RSP 102L.**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.**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.**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 and RSP 201 and RSP 202 and RSP 203.**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, transtracheal oxygen therapy and aspiration, bronchoscopy, thoracentesis, pleural chest tubes, arterial lines, ABG interpretation and analysis, transports, and electrocardiogram interpretation.

Pre-req: RSP 100 and RSP 201 and RSP 202 and RSP 203.**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 and RSP 201 and RSP 202 and RSP 203.**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 and RSP 201 and RSP 202 and RSP 203.**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 and RSP 201 and RSP 202 and RSP 203 and RSP 209.**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 and RSP 201 and RSP 202 and RSP 203.
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 course 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 and RSP 201 and RSP 202 and RSP 203.
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 and RSP 207 and RSP 208 and RSP 209 and RSP 211 and RSP 212.
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 and RSP 207 and RSP 208 and RSP 209 and RSP 211 and RSP 212.
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 and RSP 308.
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 and RSP 308.
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 and RSP 207 and RSP 208 and RSP 209 and RSP 211 and RSP 212.
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 D.
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, psychophysiological insomnia and sleep disturbance due to depression.
Pre-req: RSP 303 and RSP 308.
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 rural 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 and RSP 303 and RSP 304 and RSP 307 and RSP 308.
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 and RSP 303 and RSP 304 and RSP 307 and RSP 308 and (STA 225 or MGT 218 or PSY 223 or EDF 417 or BSC 417).
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 and RSP 303 and RSP 304 and RSP 307 and RSP 308 and (STA 225 or MGT 218 or PSY 223 or EDF 417 or BSC 417).
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 D.**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 and RSP 303 and RSP 307 and RSP 308 and (STA 225 or MGT 218 or PSY 223 or EDF 417 or BSC 417).**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) or PHY 211 (may be taken concurrently)) and PHY 202 (may be taken concurrently).

Concurrent PR: SFT 235 and (PHY 201 or PHY 211) and PHY 202**Grade Mode:** Normal Grading Mode**SFT 372 Safety & Industrial Tech****3 Credit hours**

Pre-req: SFT 235 (may be taken concurrently) and (MTH 121 (may be taken concurrently) or MTH 123 (may be taken concurrently) or MTH 127 (may be taken concurrently) or MTH 130 (may be taken concurrently) or MTH 122 (may be taken concurrently) or MTH 140 (may be taken concurrently) or MTH 229 (may be taken concurrently) or MTH 229H (may be taken concurrently)).

Concurrent PR: SFT 235 and (MTH 121 or MTH 123 or MTH 127 or MTH 130 or MTH 122 or MTH 140 or MTH 229 or MTH 229H)**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: (PHY 203 (may be taken concurrently) or PHY 212 (may be taken concurrently)) and PHY 204 (may be taken concurrently).**Concurrent PR:** (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: (PHY 203 (may be taken concurrently) or PHY 212 (may be taken concurrently)) and PHY 204 (may be taken concurrently).**Concurrent PR:** (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 489 (may be taken concurrently) with a minimum grade of C and SFT 454L (may be taken concurrently).
Concurrent PR: SFT 489 and SFT 454L
Co-req: 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 489 (may be taken concurrently) with a minimum grade of C and 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 454 (may be taken concurrently).
Concurrent PR: SFT 489 and SFT 454
Co-req: SFT 454
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 Tech** **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 reconstructing the accident based on the facts.
Pre-req: SFT 372 and SFT 375 and SFT 373.
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 489 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.
Pre-req: SFT 372 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 CHM 211 (may be taken concurrently) and CHM 217 (may be taken concurrently).
Concurrent PR: CHM 211 and CHM 217
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) and CHM 218 (may be taken concurrently).
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 and CHM 212 and CHM 218 and (PHY 203 or PHY 212) and PHY 204.

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.


Grade Mode: Normal Grading Mode

SOS 404 Senior Seminar**3 Credit hours**

A capstone 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.

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.

Grade Mode: Normal Grading Mode

SWK 281 Special Topics**1-4 Credit hours**

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.

Grade Mode: Normal Grading Mode

SWK 283 Special Topics**1-4 Credit hours**

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.

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.

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.

Pre-req: SWK 310 and SWK 320 and SWK 330 and SWK 340.

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, Writing Intensive

Grade Mode: Normal Grading Mode

SWK 322  Social Work Practice II**4 Credit hours**

Pre-req: SWK 320 and SWK 310 and SWK 330 and SWK 340.

Co-req: SWK 312, SWK 332, SWK 370

Attributes: Multicultural, Writing Intensive

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 and SWK 320 and SWK 330 and SWK 340.

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.

Pre-req: SWK 310 and SWK 320 and SWK 330 and SWK 340.

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.

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.

Pre-req: SWK 312 and SWK 322 and SWK 332 and SWK 370 and SWK 473 (may be taken concurrently).

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.

Grade Mode: Normal Grading Mode

SWK 481 Special Topics**1-4 Credit hours**

Study of topics of interest not covered in regularly scheduled 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.

Grade Mode: Normal Grading Mode

SWK 483 Special Topics**1-4 Credit hours**

Study of topics of interest not covered in regularly scheduled 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.

Grade Mode: Normal Grading Mode

SWK 486 Independent Study**1-4 Credit hours**

Individual study of topics not offered in regularly scheduled 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.

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.

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.

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.

Grade Mode: Normal Grading Mode

SOC 281 Special Topics**1-4 Credit hours**

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.

Grade Mode: Normal Grading Mode

SOC 283 Special Topics**1-4 Credit hours**

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.

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.

Attributes: American Institutions**Grade Mode:** Normal Grading Mode**SOC 344 Social Research I****3 Credit hours**

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**

Introduction to statistical analysis of social data.

Pre-req: SOC 200 or SOC 200H.**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.

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.

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 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.

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.

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.

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 individual 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.

Pre-req: SOC 200 or SOC 200H.

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.

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.

Grade Mode: Normal Grading Mode

SOC 481 Special Topics 1-4 Credit hours

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 regularly 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.

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.

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.

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.

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.

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.

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: Anthropology 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.

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.

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.

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.

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 directed 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 artistic movement. Attributes: Critical Thinking, Core II Humanities 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. Pre-req: SPN 204. Grade Mode: Normal Grading Mode
SPN 280 Special Topics 1-4 Credit hours 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 281 Special Topics 1-4 Credit hours 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. Pre-req: SPN 204. Attributes: Multicultural Grade Mode: Normal Grading Mode
SPN 282 Special Topics 1-4 Credit hours Pre-req: SPN 204. 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. Pre-req: SPN 204. Attributes: Multicultural Grade Mode: Normal Grading Mode
SPN 283 Special Topics 1-4 Credit hours Pre-req: SPN 204. 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 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. Grade Mode: Normal Grading Mode	SPN 407 Frng Lang Tchng Meth 3 Credit hours Analysis and practical application of methods of teaching foreign language, including professional development, language pedagogy, and language standards. To be taken concurrently with CI 470 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 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 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) Pre-req: SPN 204. 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 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 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 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. Pre-req: SPN 204. 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 instructor, 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 315/316 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 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 practice 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.

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.

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.

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.

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 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 Sport Finance/Economics 3 Credit hours

In this course, students will be introduced to current economic and financial issues confronting managers in the sport industry.

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 facilities. 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

Special Topics

Grade Mode: Normal Grading Mode**STHM 482 Special Topics**

Special Topics

Grade Mode: Normal Grading Mode**STHM 483 Special Topics**

Special Topics

Grade Mode: Normal Grading Mode**STHM 485 Independent Study**

Independent Study

Grade Mode: Normal Grading Mode**STHM 486 Independent Study**

Independent Study

Grade Mode: Normal Grading Mode**STHM 487 Independent Study**

Independent Study

Grade Mode: Normal Grading Mode**STHM 488 Independent Study**

Independent Study

Grade Mode: Normal Grading Mode**STHM 490 Internship**

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**

Exploring the important role of the Olympic Movement in politics since the modern Olympic Movement in 1896. (PR: JR and SR standing)

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 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:** 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:** 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:** 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 125 with a minimum grade of C or MTH 121B with a minimum grade of C.

Attributes: Critical Thinking, 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 225 with a minimum grade of C or MTH 229 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 230 with a minimum grade of C or IST 230 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 weighted 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 and 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 D or MTH 445 with a minimum grade of D.

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 or MTH 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 or MTH 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; comparisons among the designs.

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 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 D or STA 445 with a minimum grade of D.

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 231 with a minimum grade of C.

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: MTH 445 or STA 445.

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 or MTH 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 queueing systems, random walks, renewal processes, Brownian motion and Markov Chain Monte Carlo.

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 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. (PR: C or better in STA 445, or by permission).

Pre-req: MTH 445 with a minimum grade of C or 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, individualized course of study of a topic in statistics.

Attributes: No Textbook Required, 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.

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.

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: 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: 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.
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.
Grade Mode: Normal Grading Mode
- THE 221 Stage Voice I: Foundations** **3 Credit hours**
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.)
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.
Pre-req: THE 222.
Grade Mode: Normal Grading Mode
- THE 240 Stage Lighting I** **4 Credit hours**
This introductory course exposes students to elementary principles, techniques, terminology and application used by stage electricians to execute theatrical lighting designs. Combined lecture and laboratory instruction links theory with practice. (PR: THE 150)
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.
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.
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.
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.
Pre-req: THE 101 or THE 111 or THE 112.
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 and THE 245 and THE 250.
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.
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.)
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.
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.)
Pre-req: THE 222.
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.

Pre-req: THE 250.**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.

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.

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.

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.)

Pre-req: THE 222.**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.

Pre-req: THE 295.**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.

Pre-req: THE 101.**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.

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.

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.

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.

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.

Pre-req: THE 295.**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.

Pre-req: THE 295.**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.

Pre-req: THE 295.**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.

Pre-req: THE 295.**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.**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.

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.

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.

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.**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.

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.

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 freshman 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), pursuing 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.

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 University Calendar First Semester 2020-2021

August 14, Friday

End of summer school

August 17, Monday – August 21, Friday

Registration/schedule adjustment

August 15, Saturday

Residence halls open for freshmen

August 18, Tuesday – August 21, Friday

Week of Welcome for freshmen

August 20, Thursday

Residence halls open for upperclassmen

August 24, Monday, 8 a.m.

First day of classes

August 24, Monday – August 28, Friday, 8 a.m. – 5 p.m.

Late registration/schedule adjustment (add-drop)

August 28, Friday

Last day to add a class

August 31, Monday

Withdrawal ("W") period begins

September 5, Saturday – September 7, Monday

University computing services unavailable

September 7, Monday

Labor Day holiday-university closed

September 11, Friday

Application for December graduation due in academic Dean's office

September 25, Friday

Last day to withdraw from 1st 8 weeks courses

October 5, Monday, Noon

Freshmen/Sophomore midterm grades due

October 9, Friday

1st 8 weeks courses end

October 12, Monday

2nd 8 weeks courses begin

October 23, Friday

Last day to withdraw from a full semester individual course

October 26, Monday

Students should schedule appointments with advisors to prepare for advance registration.

(Required for students who have mandatory advising holds)

October 26, Monday

Recommended date to apply for May 2021 graduation

October 26, Monday – December 4, Friday

Complete withdrawals only

November 9, Monday – November 20, Friday

Advance registration for spring semester (open only to currently enrolled students)

November 13, Friday

Last day to withdraw from 2nd 8 weeks courses

November 13, Friday

Approved thesis/dissertation must be submitted to the ETD website for Graduate College review

November 21, Saturday, Noon

Residence halls close

November 23, Monday

Advance registration for spring semester (open to admitted and readmitted students)

November 23, Monday – November 27, Friday

Thanksgiving Break – classes dismissed

November 26, Thursday – November 27, Friday

Thanksgiving Holiday – University closed

November 29, Sunday, 9:00 a.m.

Residence halls open

November 30, Monday

Classes resume using only online/distance instruction

November 30, Monday – December 4, Friday

Dead week

December 4, Friday

Last class day

Last day to completely withdraw from fall semester

December 5, Saturday

Exam day for Saturday classes – exams will be held online
Some common finals

December 7, Monday

Exam day – exams will be held online

December 8, Tuesday

Exam day – exams will be held online

December 9, Wednesday

Study day

Exams resume at 3:00 p.m. for Wednesday evening classes

December 10, Thursday

Exam day – exams will be held online

December 11, Friday

Exam day – exams will be held online

December 12, Saturday, TBD

Winter Commencement, Big Sandy Superstore Arena

Official December graduation date

December 13, Sunday, Noon

Residence halls close

December 14, Monday, Noon

Final grades due

ETD must be approved by the Graduate College and all other requirements must be met for degree completion

December 23, 2020, Wednesday – January 1, 2021, Friday

Winter Break – University closed

Second Semester 2020-2021

January 4, Monday

University reopens

January 4, Monday – January 15, Friday

Registration/schedule adjustments

January 17, Sunday, 9 a.m.

Residence halls open

January 18, Monday

Martin Luther King, Jr. Holiday-University closed

January 19, Tuesday, 8 a.m.

First day of classes

January 19, Tuesday – January 22, Friday

Late registration/schedule adjustment (add-drop period)

January 22, Friday

Last day to add/drop classes

January 25, Monday

Withdrawal ("W") period begins

February 12, Friday

Applications for May graduation due in academic Dean's office

February 19, Friday

Last day to withdraw from a 1st 8 weeks courses

March 1, Monday, Noon

Freshman/sophomore midterm grades due

March 5, Friday

1st 8 weeks courses end

March 8, Monday

2nd 8 weeks courses begin

March 15, Monday

Students should schedule appointments with advisors to prepare for advance

registration for summer and fall. (Required for students with mandatory advising holds.)

March 15, Monday – March 19, Friday

Advance registration for summer sessions (open only to currently enrolled students)

March 19, Friday

Classes dismissed-Spring holiday

March 22, Monday

Last day to withdraw from a full semester individual course

March 22, Monday

Advance registration for summer sessions begin (open to admitted/readmitted students)

March 22, Monday

Recommended date to apply for July, August, and December 2021 graduation

March 22, Monday – April 23, Friday

Complete withdrawals only

April 2, Friday

Last day to withdraw from a 2nd 8 weeks courses

April 2, Friday

Approved thesis/dissertation must be submitted to the ETD website for Graduate College review

April 5, Monday – April 16, Friday

Advance registration for fall semester (open only to currently enrolled students)

April 19, Monday – April 23, Friday

Dead week

April 19, Monday

Advance registration for fall semester begins (open to admitted/readmitted students except first-time fall undergraduates)

April 23, Friday

Last class day

Last day to completely withdraw from spring semester

April 24, Saturday

Exam day for Saturday classes

Some common finals

April 26, Monday

Exam Day

April 27, Tuesday

Exam Day

April 28, Wednesday

Study Day

Exams resume at 3 p.m. for Wednesday evening classes

April 29, Thursday

Exam day

April 29, Thursday

Approved thesis/dissertation must be submitted to the EDT website

April 30, Friday

Exam Day

May 1, Saturday, TBD at Big Sandy Superstore Arena

Commencement

Official May graduation date

May 2, Sunday, Noon

Residence halls close

May 3, Monday, Noon

Final grades due

ETD must be approved by the Graduate College and all other requirements must be met for degree completion

May 10, Monday – August 13, Friday

Summer school sessions

May 29, Saturday – May 31, Monday

University computer services unavailable

May 31, Monday

Memorial Day holiday-university closed

July 5, Monday

Independence Day holiday-university closed

Summer Sessions 2021

Intersession

May 7, Friday, 8 a.m. – 5 p.m.

Regular registration

May 10, Monday

First day of classes

Late registration/schedule adjustment (add/drop) closes at 5:00 p.m.

May 11, Tuesday

Withdrawal ("W") period begins

May 21, Friday

Last day to withdraw from an individual course

May 24, Monday – June 3, Thursday

Complete withdrawals only

May 29, Saturday – May 31, Monday

University computer services unavailable

May 31, Monday

Memorial Day Holiday – University closed

June 3, Thursday

Last class day

Last day to completely withdraw from Intersession

June 4, Friday

Final exam day

June 7, Monday, Noon

Deadline for submitting final grades

Summer I

May 14, Friday, 8 a.m. – 5 p.m.

Regular registration

May 17, Monday

First day of classes

May 17, Monday – May 19, Wednesday

Late registration/schedule adjustment (add-drop)

May 20, Thursday

Withdrawal ("W") period begins

May 29, Saturday — May 31, Monday

University computing services unavailable

May 31, Monday

Memorial Day Holiday – University closed

July 2, Friday

Last day to withdraw from an individual course

July 5, Monday

Independence Day Holiday observed – University closed

July 6, Tuesday – August 5, Thursday

Complete Withdrawals Only

July 16, Friday

Application for August graduation due in academic Dean's office
Approved thesis/dissertation must be submitted to the ETD website for Graduate College review

August 5, Thursday

Last class day

Last day to completely withdraw from Summer I

August 6, Friday

Final exam day

August 9, Monday, Noon

Deadline for submitting final grades

Summer II

June 4, Friday, 8 a.m. – 5 p.m.

Regular registration

June 6, Sunday, 9 a.m.

Residence halls open

June 7, Monday

First day of classes

Late registration/schedule adjustment (add/drop) closes at 5:00 p.m.

June 8, Tuesday

Withdrawal ("W") period begins

June 11, Friday

Application for July graduation due in academic Dean's office
Approved thesis/dissertation must be submitted to the ETD website for Graduate College review

June 25, Friday

Last day to withdraw from an individual course

June 28, Monday- July 8, Thursday

Complete withdrawals only

July 5, Monday

Independence Day Holiday observed – University closed

July 8, Thursday

Last class day

Last day to completely withdraw from Summer II

July 8, Thursday

Approved thesis/dissertation must be submitted to the EDT website

July 9, Friday

Final exam day

Official July graduation date

July 12, Monday, Noon

Deadline for submitting final grades

ETD must be approved by the Graduate College and all other requirements must be met for degree completion

Summer III

July 12, Monday, 8 a.m. – 5 p.m.

Regular registration

July 13, Tuesday

First day of classes

Late registration/schedule adjustment (add/drop) closes at 5:00 p.m.

July 14, Wednesday

Withdrawal ("W") period begins

July 16, Friday

Application for August graduation due in academic Dean's office
Approved thesis/dissertation must be submitted to the ETD website for Graduate College review

July 30, Friday

Last day to withdraw from an individual course

August 2, Monday — August 12, Thursday

Complete withdrawals only

August 12, Thursday

Last class day

Last day to completely withdraw from Summer III

August 12, Thursday

Approved thesis/dissertation must be submitted to the EDT website

August 13, Friday

Final exam day

Official August graduation date

August 16, Monday, Noon

Deadline for submitting final grades

ETD must be approved by the Graduate College and all other requirements must be met for degree completion

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