

**Marshall University**  
**GENERAL**  
**UNDERGRADUATE**  
**CATALOG**

**2013-2014**

**Huntington, West Virginia**

**Susan Tams, M.B.A., Ed.S.**  
*Editor*

**Marshall University is accredited  
as an institution of higher learning by:**

**The Higher Learning Commission of the  
North Central Association of Colleges and Schools**  
30 North LaSalle Street, Suite 2400  
Chicago, IL 60602  
Toll-free 1-800-621-7440



# 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.



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# 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.

## Academic

Academic Affairs .....	696-6690
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 Health Professions.....	696-6750
College of Information Technology and Engineering .....	696-5453
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.....	696-3148/5413
Chemistry .....	696-2430
Classics .....	696-6749
Clinical Laboratory Sciences .....	696-3188
Communication Disorders.....	696-3640
Communication Studies .....	696-6786
Counseling.....	696-2383
Criminal Justice and Criminology.....	696-3196
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 .....	696-2311
Geography .....	696-2500
Geology.....	696-6720
German.....	696-2744
Greek.....	696-6749
History.....	696-6780

## Integrated Science and Technology/

Environmental Science, B.S. ....	696-6498
Journalism/Mass Communications .....	696-2360
Kinesiology.....	696-6490
Latin.....	696-6749
Management/Marketing .....	696-5423
Mathematics and Applied Science.....	696-6482
Medicine.....	696-7000
Medical Laboratory Science .....	696-3188
Military Science.....	696-6450
Modern Languages.....	696-6730
Music.....	696-3117
Nursing.....	696-6750
Outreach and Continuing Studies.....	696-2330
Philosophy .....	696-6749
Physical Sciences .....	696-6738
Political Science.....	696-6636
Psychology.....	696-6446
Regents B.A. Degree .....	696-6400
Religious Studies .....	696-6749
Social Work.....	696-2792
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 Services .....	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	Women's Center.....	696-3338
Environmental, Geotechnical and Applied Sciences, Center for .....	696-4748	Writing Center.....	696-2405
Greek Affairs .....	696-2284	<i>Campuses and Centers</i>	
HELP Program.....	696-6317	Mid-Ohio Valley Center.....	674-7200
Housing and Residence Life.....	696-6765	South Charleston Campus.....	746-2500
ID Card Office.....	696-6843	Teays Valley Regional Center.....	757-7223
Information Technology, Office of.....	696-6671		
Judicial Affairs .....	696-2495		
Library			
Huntington.....	696-2320		
South Charleston.....	746-8910		
Marshall University Foundation .....	696-6264		
MU Online.....	696-3970		
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 Resource Center.....	696-5810		
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		

***Toll-Free Number and World Wide Web Site***

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

World Wide Web site: [www.marshall.edu](http://www.marshall.edu)



# About Marshall University

**Dr. Stephen J. Kopp, President**

**Mr. Matt Turner, Chief of Staff**

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

**Dr. Jan I. Fox, Senior Vice President for Information Technology**

**Dr. Gayle Ormiston, Provost and Senior Vice President for Academic Affairs**

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

**Ms. Mary Ellen Heuton, Senior Vice President for Finance**

**Dr. Karen Kirtley, Senior Vice President for Administration**

**Dr. Shari Williams-Clarke, Vice President for Multicultural Affairs**

**Dr. Joseph Shapiro, Vice President for Health Sciences Advancement**

**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 multi-campus public university providing innovative undergraduate and graduate education that contributes to the development of society and the individual. The University actively facilitates learning through the preservation, discovery, synthesis, and dissemination of knowledge.

Marshall University will

- provide affordable, high quality undergraduate and graduate education appropriate for the state and the region;
- provide services and resources to promote student learning, retention, and academic success;
- foster faculty, staff, and student outreach through service activities;
- provide a safe and secure employee work environment;
- make instruction available throughout Marshall's service area using all appropriate modes of delivery;
- enhance the quality of health care in the region;
- promote economic development through research, collaboration, and technological innovations;
- educate a citizenry capable of living and working effectively in a global environment;

- support and strengthen the faculty, staff, student, and administrative governance structures in order to promote shared governance of the institution;
- further the intellectual, artistic, and cultural life of the community and region; and
- adhere to the Marshall University Creed and to the Statement of Ethics.

#### Marshall University faculty will

- remain current in their fields of expertise and incorporate that expertise in the educational process as appropriate;
- improve instruction through the use of innovative teaching methods that require students to become actively involved in the learning process and develop the critical thinking skills necessary for life-long learning;
- contribute to the body of knowledge through completion of scholarly and creative activities;
- actively engage and mentor students in scholarly, artistic, and creative endeavors;
- help students develop the ability to navigate through a rapidly changing society; and
- regularly review the curriculum, degree, and programs offered, and recommend necessary additions and deletions to meet changing needs of the state and region.

#### Marshall University staff will

- support the mission of the University in their transactions with students, staff, faculty, administrators, and the public;
- develop a positive, just, and equitable workplace; and
- be a quality workforce equipped with appropriate skills and knowledge.

#### Marshall University students will have the opportunity to

- use their knowledge, creativity, and critical thinking skills to make their communities better places in which to live;
- examine critically the many issues facing society and, through the process of civil discourse, prepare themselves to become socially responsible individuals who contribute to the betterment of society;
- appreciate and to cultivate diversity, and to value differences;
- participate in activities such as artistic and cultural programs, social and residential life activities, and intercollegiate/intramural athletic teams; and
- undertake intensive graduate-level education in their chosen fields upon admission to graduate school, giving them solid foundations for becoming competent professionals.

#### Marshall University administration will

- actively seek resources to support the mission and goals of the institution as stated in this document;
- secure funding to support scholarship, artistic, and creative endeavors, faculty and staff development, and state-of-the-art classrooms;
- provide leadership to facilitate the institution's achievement of its mission and vision;
- administer the policies of the university in a fair, ethical, and equitable manner;
- communicate the vision, mission, goals, achievements, and difficulties of the institution in a clear, effective, and forthright manner to both internal and external constituencies; and
- actively support shared governance of the institution.

## MARSHALL UNIVERSITY VISION STATEMENT

Marshall University, an exemplar of excellence in teaching and learning, will continue to place its highest priority on providing outstanding undergraduate and graduate education, resulting in national recognition in academics and in scholarly, artistic, and creative achievement. Marshall's students will graduate well prepared for the responsibilities of life within a culturally diverse and globally interdependent society. Marshall will address the changing needs of the state and region and will return to the community and state an outstanding value for the resources invested in the university.

## 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 Director of Academic Assessment.



## 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, University College, the Graduate College, and the School of Medicine.

# ACCREDITATIONS

- **The Higher Learning Commission of the North Central Association of Colleges and Schools** (30 North LaSalle Street, Suite 2400, Chicago, IL 60602; toll-free 1-800-621-7440, [www.ncahigherlearningcommission.org](http://www.ncahigherlearningcommission.org)) accredits Marshall University as an institution of higher learning.
- **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 and Technology** (111 Market Place, Suite 1050, Baltimore, MD 21202; telephone 410-347-7700) accredits the general engineering (BSE) undergraduate program.
- **American Chemical Society** certifies the Department of Chemistry.
- **American Psychological Association** accredits the Doctor of Psychology degree program.
- **Accreditation Council for Education in Nutrition and Dietetics (ACEND)** accredits the Didactic Program in Dietetics.
- **Accrediting Council on Education in Journalism and Mass Communications** (University of Kansas School of Journalism, Stauffer-Flint Hall, Lawrence, KS 66045; telephone 913-864-3986) accredits the W. Page Pitt School of Journalism & Mass Communications.
- **Commission on Accreditation of Allied Health Education Programs** (35 East Wacker Drive, Suite 1970, Chicago, IL 60610; telephone 312-553-9355) accredits the Athletic Trainer program.
- **Council on Academic Accreditation of the American Speech-Language-Hearing Association** (10801 Rockville Pike, Rockville, MD; telephone 301-897-5700) accredits the Communication Disorders graduate program.
- **Council on Accreditation of Allied Health Education Programs** (35 East Wacker Drive, Suite 1970, Chicago, IL 60610; telephone 312-553-9355) and the **American Society of Cytology** accredit the Cytotechnology program.
- **Council on Social Work Education** (1600 Duke Street, Alexandria VA 22314; telephone 703-683-8080) accredits the Social Work program.
- **Liaison Committee on Medical Education of the American Medical Association** and the **Association of American Medical Colleges** (515 North State Street, Chicago, IL 60610; telephone 312-464-4657) accredit the School of Medicine.

(continued)

- **National Accrediting Agency for Clinical Laboratory Sciences** (5600 N. River Road, Suite 720, Rosemont, IL 60018-5119) accredits the Medical Laboratory Science program and the Medical Laboratory Technician program.
- **National Association of Schools of Music** (11250 Roger Bacon Drive, Reston, VA 22090; 703-437-0700) accredits the music program.
- **National Council for Accreditation of Teacher Education** and the **West Virginia State Department of Education** accredit the teacher education program.
- **Accreditation Commission for Education in Nursing, Inc.** (3343 Peachtree Road N.E., Suite 850; Atlanta, GA 30326. 404-975-5000) accredits programs for the Associate in Science in Nursing, the Bachelor of Science in Nursing and the Master of Science in Nursing.
- **Applied Science Accreditation Commission of the Accrediting Board for Engineering and Technology** (111 Market Place, Suite 1050, Baltimore, MD 21202; telephone 410-347-7700) accredits the Safety Technology undergraduate program.
- **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.

## MEMBERSHIPS IN MAJOR ORGANIZATIONS

- **AACSB/The International Association for Management Education**
- **American Association for Affirmative Action**
- **Association of American Colleges and Universities**
- **American Association of Colleges for Teacher Education**
- **American Association of Family & Consumer Sciences**
- **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**
- **Council of Graduate Schools in the United States**
- **The Honor Society of Phi Kappa Phi**
- **International Council of Fine Arts Deans**
- **NACUBO-SACUBO**
- **National Collegiate Athletic Association**
- **National Collegiate Honors Council**
- **Founding Member of the Ohio River Basin Consortium for Research and Education**
- **Southern Council on Collegiate Education for Nursing**
- **Teacher Education Council of State Colleges & Universities**

## THE FACULTY

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

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

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

## THE CAMPUSES

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

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

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

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

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

### HUNTINGTON CAMPUS

**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, a Substance Abuse Free Environment (S.A.F.E.) floor, 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 Services Center**, located on the southwest corner of Fifth Avenue and 17th Street, houses the university's career development center. The center provides career guidance and job placement assistance for students and alumni seeking employment. The building features a computer lab for job search skill development, a jobs board, interview rooms, career counseling offices, and the Student Jobs Program.

**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 the Department of Safety Technology.

**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 Division of Accountancy and Legal Environment, the Division of Finance

and Economics, and the Division of Management, Marketing, and Management Information Systems. Corbly also houses the family and consumer sciences program, the business and office technology programs, and the Department of English.

**Drinko Library**, 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. Drinko is open 24-hours five days per week and includes access to a spacious reading room with computer consultation stations. The over-all library system includes over a 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 **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, the W. Don Williams Health and Fitness Center (named for a former division chair), dance studio, rifle range, steam room, and first-aid laboratory. It houses the Environmental Center, the department of health, physical education, and recreation, the College of Information Technology and Engineering (CITE), 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 technical 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.

**Jenkins Hall**, constructed in 1937 and located on the eastern side of the inner campus, was named in honor of a distinguished Confederate cavalry officer, General Albert Gallatin Jenkins, who was a native of Cabell County. Until 1970 the building provided kindergarten through high school education and served as a laboratory for prospective teachers. Now, Jenkins houses administration, offices, and classrooms of the College of Education and Professional Development. The facility includes a statistical laboratory, a learning resource center, a mathematics education laboratory, a school plant laboratory, and an adult reading center.

**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 Theatre) 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 3<sup>rd</sup> Avenue and 18<sup>th</sup> Street, was formerly a residence hall. It now houses the Regents Bachelor of Arts program, administrative offices for college courses in the high schools, Tutoring Services, and University College.



**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; 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 75 points at the top that represent those lives lost in the crash. The building houses offices of Student Government, Student Activities, the Center for African American Students' Programs, the Student Resource Center, Student Affairs, Student Legal Aid, West Virginia Army National Guard, Campus I.D., Food Service, and Lesbian-Gay-Bisexual Outreach. It includes a large central lounge, study areas, cafeteria, restaurant, coffee shop, E-Post Office, recreation area, information desk, computer lab, and meeting and conference rooms. Memorial Student Center also houses the **University Bookstore**, which was renovated and enlarged in 1998.

**Morrow Library**, located on Third Avenue on the north side of campus, was constructed in 1930 and named to honor James E. Morrow, who headed Marshall College from 1872-73 (he was the grandfather of Anne Morrow Lindbergh). An addition completed in 1967 doubled its size to over 100,000 square feet. With the opening of the Drinko Library in 1998 as the university's major library facility, Morrow Library now houses close to 300,000 volumes, special collections of West Virginia, University archives which relate to the history of the institution, manuscript collections of local and regional interest, and the Rosanna Blake Library of Confederate History (named to honor its donor) that includes resources on antebellum Southern history. Morrow Library is also a federal depository for Government Documents, with a collection of over one million items. Also, the Department of Integrated Science and Technology has instructional and computer laboratories, faculty offices, and a "Learning Commons" located in Morrow Library.

**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 and the Graduate College. 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 Marshall main 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 the offices of counseling, Student Support Services, and the Women's Center. The Department of Integrated Science and Technology 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, which is organized into the Division of Biological Sciences, the Division of Mathematics and Applied Sciences, and the Division of Physical Sciences. In addition the Science Building includes laboratories and offices of the Clinical Laboratory Services department, animal quarters, 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.

**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

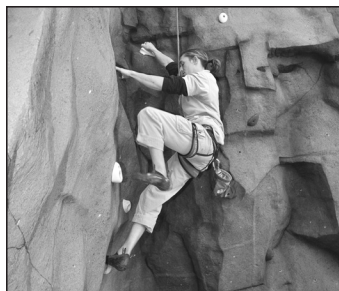
**Gallery 842**, established in 2009 and offered by the School of Art and Design as exhibition space in addition to the Birke Gallery on the Huntington campus, is located at 842 Fourth Avenue in downtown Huntington. Gallery 842 features student and faculty work, community artists and regional and national artists.

**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, bookstore, 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 senior U.S. Senator Byrd in recognition of his efforts on behalf of education in West Virginia. The facility contains thirteen classrooms (including an electronic classroom) and the Robert C. Byrd Institute for Advanced Flexible Manufacturing. On the first floor it also houses the South Charleston Campus Library and Research Commons, opened in the spring 1998 semester, which holds a core collection of 6,500 volumes and 420 journal subscriptions, and shares resources with libraries on the Huntington campus that include several databases through Marshall's Web gateway. A daily courier service delivers materials between the two campuses.



# Undergraduate Programs

## 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. Areas of emphasis are indented below under Program and Major.

### Degree Abbreviations:

B.A.: Bachelor of Arts  
B.A.S.: Bachelor of Applied Science  
B.B.A.: Bachelor of Business Administration  
B.F.A.: Bachelor of Fine Arts  
B.S.: Bachelor of Science  
B.S.E.: Bachelor of Science in Engineering  
B.S.W.: Bachelor of Social Work  
R.B.A.: Regents Bachelor of Arts

### College Abbreviations:

CAM: College of Arts and Media  
CITE: College of Information Technology and Engineering  
COE: College of Education  
COLA: College of Liberal Arts  
COHP: College of Health Professions  
COS: College of Science  
COB: College of Business

<i>Program/Major/Area of Emphasis</i>	<i>Degree</i>	<i>College</i>
Accounting	B.B.A.	COB
Applied Science	B.A.S.	
Administrative Communication		
Digital Forensics		
Game Development		
Social Policy Studies		
Web Application Development		
Art (See Visual Art)		
Athletic Training	B.S.	COHP
Comprehensive		
Health Communication		
Occupational Safety and Health		
Pre-Chiropractic		
Pre-Med		
Pre-Physical Therapy		
Pre-Physician's Assistant		
Safety		
Biological Sciences	B.S.	COS
Biology		
Pre-Dentistry		
Pre-Med		
Pre-Pharmacy		
Pre-Veterinary		
Cellular, Molecular and Medical Biology		

(continued)



<i>Program/Major/Area of Emphasis</i>	<i>Degree</i>	<i>College</i>
Ecology and Evolutionary Biology		
Microbiology		
Biomechanics	B.S.	COHP
Chemistry	B.S.	COS
Biochemistry		
Chemistry		
Pre-Dentistry		
Pre-Med		
Pre-Pharmacy		
Pre-Veterinary		
Environmental Chemistry		
Forensic Chemistry		
Chemistry (ACS Certified)	B.S. Chemistry	COS
Communication Disorders	B.S.	COHP
Communication Studies	B.A.	COLA
Health Communication		
Interpersonal Communication		
Organizational Communication		
Public Communication		
Computer Science	B.S.	CITE
Criminal Justice	B.A.	COS
Cytotechnology	B.S. Cytotech	COHP
Dietetics	B.S.	COHP
Economics	B.A.	COLA
Economics	B.B.A.	COB
International Economics		
Education, Early Childhood (See Teacher Education)		
Education	B.A.	COE
Education, Early Childhood		
Education, Elementary		
Early Education - PreK-K		
Elementary Education K-6		
English 5-9		
General Science 5-9		
Mathematics 5-9		
Mentally Impaired K-6		
Social Studies 5-9		
Education, Secondary		
Art Education PreK-Adult		
Biological Science 9-Adult		
Chemistry 9-Adult		
English 5-Adult		
English 5-9		
French 5-Adult		
General Science 5-Adult		
General Science 5-9		
Journalism 9-Adult		
Latin 5-Adult		
Mathematics 5-Adult		
Mathematics 5-9		
Mentally Impaired 5-Adult		
Music Education PreK-Adult		
Oral Communication 5-Adult		
Physical Education PreK-Adult		
Physical Education 5-Adult		
Physics 9-Adult		
Social Studies 5-Adult		
Social Studies 5-9		
Spanish 5-Adult		

<i>Program/Major/Area of Emphasis</i>	<i>Degree</i>	<i>College</i>
Engineering	B.S.E.	CITE
Civil Emphasis		
English	B.A.	COLA
Creative Writing		
Literary Studies		
Environmental Science	B.S.	COS
Transportation Technology		
Exercise Science	B.S.	COHP
Applied Exercise Physiology		
Clinical Exercise Physiology		
Finance	B.B.A.	COB
Geography	B.A.	COLA
Geography	B.S.	COLA
Meteorology		
Weather Broadcasting		
Geology	B.A.	COS
Geology	B.S.	COS
Engineering Geology		
Environmental Geoscience		
Health Sciences	B.S.	COHP
History	B.A.	COLA
Humanities	B.A.	COLA
Classics		
Philosophy		
Religious Studies		
Integrated Science and Technology	B.S.	COS
Biotechnology		
Computer and Information Technology		
Computer Forensics		
Computer Application Development		
Game Development		
Web Application Development		
Digital Forensics and Information Assurance		
Integrated Science and Technology		
Environmental Assessment and Policy		
International Affairs	B.A.	COLA
International Business	B.B.A.	COB
Journalism and Mass Communications	B.A.	CAM
Advertising		
Broadcast Journalism		
Online Journalism		
Print Journalism		
Public Relations		
Radio and Television Production and Management		
Sports Journalism		
Latin	B.A.	COLA
Management	B.B.A.	COB
Health Care		
Energy Management		
Management Information Systems	B.B.A.	COB
Marketing	B.B.A.	COB
Mathematics	B.S.	COS
Applied Mathematics		
Mathematics		
Statistics		
Mathematical Statistics		
Medical Imaging	B.S.	COHP
Cardiovascular/Interventional Advanced Practice		
CT/MRI Advance Practice Track		
Mammography		

(continued)

<i>Program/Major/Area of Emphasis</i>	<i>Degree</i>	<i>College</i>
MI Management Advanced Practice Track RT Completion		
Medical Laboratory Science	B.S. Med Tech	COHP
Modern Languages	B.A.	COLA
French		
German		
Japanese		
Spanish		
Music	B.F.A.	CAM
Multidisciplinary Music Studies		
Jazz Studies		
Performance		
Theory and Composition		
Natural Resources and Recreation Management	B.S.	COS
Nursing	B.S.N.	COHP
Physical Education	B.A.	COHP
Sport Management & Marketing		
Physics	B.S.	COS
Pre-Medical		
Applied Physics		
Bio Physics		
Medical Physics		
Political Science	B.A.	COLA
Psychology	B.A.	COLA
Public Health	B.S.	COHP
Regents Degree	R.B.A.	
Anthropology		
Computer Forensics		
Creative Writing in English		
Game Development		
Literature in English		
Organizational Studies		
Preschool Development		
Psychology		
Religion Studies		
Sociology		
Web Application Development		
Women's Studies		
Respiratory Care	B.S.	COHP
Cardiovascular/Interventional Advanced Practice		
CT/MRI Advance Practice Track		
Mammography		
MI Management Advanced Practice Track		
RT Completion		
Risk Management and Insurance	B.B.A.	COB
Safety Technology	B.S.	CITE
Secondary Education (See Teacher Education)		
Social Work	B.S.W.	COHP
Sociology and Anthropology	B.A.	COLA
Anthropology		
Sociology		
Teacher Education (see Education)		
Theatre	B.F.A.	CAM
Performance		
Production		

Visual Art	B.F.A.	CAM
Ceramics		
Fibers		
Graphic Design		
Painting		
Photography		
Printmaking		
Sculpture		

## UNIVERSITY TWO-YEAR PROGRAMS OFFERED

<i>Program/Major/Area of Emphasis</i>	<i>Degree</i>	<i>College</i>
Medical Laboratory Technology	A.A.S.M.L.T.	COHP
Nursing		
St. Mary's Cooperative Program	A.S.N.	COHP

## UNDERGRADUATE CERTIFICATE PROGRAMS

Appalachian Studies  
 Asian Studies  
 Blood Banking Categorical  
 Clinical Chemistry Categorical  
 Clinical Hematology Categorical  
 Clinical Microbiology Categorical  
 Computer Forensics  
 Geospatial Information Science  
 Latin American Studies  
 Worksite Wellness



# Admissions

## ADMISSIONS OFFICE

One John Marshall Drive  
Huntington, West Virginia 25755  
Telephone 1-800-642-3499 or 1-304-696-3160  
[admissions@marshall.edu](mailto: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 Admissions Office or apply online. **All applications for admission or re-admission must be submitted to the Admissions Office, 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 Admissions Office 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 Admissions Office 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 Admissions Office.

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. Beginning with the Fall 2011 term, an **enrollment deposit** will be required before any new student is permitted to register for courses or reserve housing.

## 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 students applying to Marshall University must pay a \$30.00 application fee. Once the \$30.00 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 \$50.00 transfer evaluation fee. Transfer evaluation fees are valid for one academic year only.

International applicants are required to submit a non-refundable \$100.00 application fee that is valid for one academic year.

## 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 at least 2.00 on a 4.00 scale and a composite score of at least 19 on the ACT or a combined score (critical reading + math) of at least 900 on the SAT; **OR** An Overall Grade Point Average of at least 3.00 on a 4.00 scale and a composite score of at least 16 on the ACT or a combined score (critical reading + math) of at least 770 on the SAT.
3. Recommended completion of the 2008 Higher Education Policy Commission (HEPC) course requirements. 2008 HEPC course requirements include:
  - 4 years of English (including courses in grammar, composition, literature)
  - 3 years of social studies (including U.S. history)
  - 4 years of math (including Algebra I and at least two higher units)
  - 3 years of science (all units must be laboratory science)
  - 2 years of the same foreign language
  - 1 year of fine arts

Beginning in 2008, students seeking admission to four-year degree programs must earn credit for the courses listed above.

Applicants who have not completed the 2008 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. 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."

##### Required Application Materials:

1. Completed application for admission including the application fee.
2. An official, final transcript, including graduation date, sent directly from the student's high school to the Marshall University Admissions Office.
3. Official college transcript sent to the Marshall University Admissions Office directly from the college or university if a student has completed a non-Marshall college course while in high school or in summer school.
4. 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. (Applicants who graduated from high school five years or more ago and who lack test scores must pass special placement exams or designated English and mathematics prerequisites before they are permitted to enroll in courses in English and mathematics.) 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.<sup>1</sup>
5. A valid immunization record including measles and rubella vaccinations (MMR). Applicants can provide an immunization record signed by a physician or an official copy of the permanent high school health record including a report of the required immunizations. Students must provide proof of immunity before or during the first semester of enrollment or

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<sup>1</sup>Students who have been out of high school five years or more are not required to take the ACT or SAT exam except for admission into the College of Science or the College of Information Technology and Engineering. Students admitted without ACT or SAT scores must take the placement examination prior to course registration. Placement exam scores do not replace the requirement for ACT or SAT exams.

they will not be permitted to enroll in subsequent terms. If an applicant has religious beliefs that prohibit vaccination, the applicant must submit a notarized statement from a member of his or her clergy. Requests for exemptions should be made to the Admissions Office. Students born prior to January 1, 1957 are exempt from the immunization requirement.

### **Conditional Admission**

MU offers admission to a limited number of students who do not meet freshman admission requirements. These students are admitted to University College and must complete all prerequisites within three semesters. Prerequisites are determined by minimum scores of 18 ACT in English (450 on the Critical Reading portion of the SAT) and 19 ACT in Math (460 on the Math portion of the SAT). Upon completion of any needed prerequisites, earning a 2.00 in at least 12 hours of graded coursework, and successful completion of UNI 101, New Student Seminar, 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**

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 appropriate fee;
2. Preliminary high school transcript showing senior schedule or passing score on GED exam;
3. American College Test (ACT) or Scholastic Aptitude Test (SAT) exams with minimum required scores.<sup>1</sup>

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.

If a student has been out of high school for more than three months, s/he must complete the statement of activities since high school graduation on the admission application before s/he can be considered for admission to the university.

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.

## **GED RECIPIENTS**

Non-high school graduates may be admitted to Marshall University if they pass with a standard score of 450 on each of the five parts of the General Education Development Test or an average standard score of 500 or above on the entire test. GED scores must be mailed directly to the Admissions Office from a state testing center or a state department of education. Applicants for admission who have held the GED for at least five years subsequent to the graduation date of their high school class do not need ACT/SAT scores except if applying to the College of Science or College of Information Technology and Engineering. Applicants holding the GED for fewer than five years must submit ACT or SAT scores. Students admitted without ACT or SAT scores are required to take English and math placement examinations prior to course registration. A limited number of students who do not meet GED, ACT, or SAT requirements may be admitted to University College at the discretion of the Director of Admissions (see Conditional Admission). GED students may not enroll at Marshall University prior to the graduation date of their high school class. When extenuating circumstances exist, GED recipients who wish to enroll before their high school class has graduated may appeal for early acceptance as freshmen to the Director of Admissions.

### **General Education Development (GED) Test Admission Requirements:**

1. Applicants for GED admission must be past the age and time of their regular high school graduating class.
2. Applicants must have official GED test scores sent directly from the state GED testing center or state department of education.
3. Applicants who completed the GED test in the Armed Forces can have an official copy of their scores forwarded to the Admissions Office. More information is available online at [www.dantes.doded.mil](http://www.dantes.doded.mil).
4. A GED recipient is admitted on the basis of a standard score of 450 or above on each of the five parts of the test or an average standard score of 500 or above on the entire test. No course credit is granted for completion of the college level GED Test.

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<sup>1</sup>Students who have been out of high school five years or more are not required to take the ACT or SAT exam except for admission into the College of Science or the College of Information Technology and Engineering. Students admitted without ACT or SAT scores must take the placement examination prior to course registration. Placement exam scores do not replace the requirement for ACT or SAT exams.



## EARLY HIGH SCHOOL GRADUATES

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 Entry student (see Early Entry section). **Early High School Graduates and Early Entry 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 GED 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 26 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 and completed all prerequisite courses for English and math while maintaining a 2.00 cumulative college GPA.

Transfer students who do not meet either of these requirements may appeal the decision through the Admissions appeals process. 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, including the statement of activities section, before transfer students can be considered for admission to the university).
2. A non-refundable transfer evaluation fee of \$50.00.
3. Official transcripts from the Registrar's Office of all accepted, accredited institutions attended must be sent directly to the Marshall Admissions Office. (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 26 earned semester hours must also submit an official high school transcript with graduation date.
5. ACT or SAT scores.
6. A valid immunization record, including measles and rubella, is required of all transfer students. Applicants can provide an immunization record signed by a physician or an official copy of the permanent high school health record including a report of the required immunizations. 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. If an applicant has religious beliefs which prohibit vaccination, the applicant must submit a notarized statement from a member of his or her clergy. Requests for exemptions should be made to the Admissions Office. Students born prior to January 1, 1957 are exempt from the immunization requirement.

*(continued)*

## 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 Admissions Office 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. If, for example, a student takes ENG 220, American Literature, at another institution, and this course converts at Marshall to ENG 320, American Literature, the student will get credit for ENG 320 at Marshall, but those credits will count as lower division (100- to 200-level) credits.

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

### 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 \$50.00 transfer evaluation fee;
2. Transfer Applicants who have earned 26 or more semester hours from accepted, accredited institution(s) and who are currently enrolled while in good standing may be provisionally admitted pending receipt of all outstanding official, final college transcripts.
3. Transfer Applicants who have earned fewer than 26 semester hours from accepted, accredited institution(s), are currently enrolled while in good standing with a 2.00 or higher cumulative GPA on 12 graded college-level semester hours, and have completed all prerequisites, may be provisionally admitted pending receipt of all outstanding official, final college transcripts.
4. Transfer Applicants who have earned fewer than 26 semester hours from accepted, accredited institution(s), are currently enrolled while in good standing, and who meet minimum freshman admission requirements may be provisionally admitted pending receipt of all outstanding official, final college transcripts.
5. If a student has fewer than 26 semester transfer hours s/he must have an official final high school transcript with graduation date or GED scores and ACT/SAT scores mailed directly to the Admissions Office from the high school or GED testing center. All test scores must be sent directly to the Admissions Office from a state testing center, a state department of education, the American College Test (ACT) or The College Board.

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 to be admitted as freshmen, for financial aid, or for 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.
- An ACT / SAT at the 85<sup>th</sup> percentile or above [ACT = 26, SAT = 1170 (CR+M)]. If the ACT or SAT has not been taken, a score at the 90<sup>th</sup> percentile or higher on another nationally normed standardized test, such as the PLAN or EXPLORE, 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.
- A letter of recommendation from a counselor or principal.
- A letter of recommendation from a teacher who is familiar with the student's academic performance.
- 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.
- A valid immunization record including measles and rubella vaccinations (MMR).

### **Early Admission: Junior and Senior Year of High School**

- Be currently enrolled in high school or a home-school program.
- Completed admission application and application fee.
- 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.
- A valid immunization record including measles and rubella vaccinations (MMR).

## **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 institution whose primary language of all instruction is English must provide proof they are proficient in the English language for admission 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 78 or higher.
- Paper-based TOEFL (Test of English as a Foreign Language) score of 547 or higher.
- IELTS (International English Language Testing System) score of 6.0 or higher.
- Successful completion of INTO Marshall Academic English Level 6.
- Successful completion of an English as a Second Language (ESL) program approved by Marshall University's Admissions Office.

### **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 academic year (9 months) before an I-20 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 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.

## 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 2.50 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 \$100 U.S. international application fee.
2. High school record:
  - *Non-U.S. high school* – evaluation of high school records showing GPA submitted directly to Marshall University by evaluation agency
  - *U.S. high school* – official, final transcript, including graduation date, sent directly from the student's high school to the Marshall University Admissions Office
3. College record:
  - *Non-U.S. college* – evaluation of coursework taken while in high school or as part of high school completion submitted directly to Marshall University Admissions Office by evaluation agency
  - *U.S. college* – official college transcript sent to the Marshall University Admissions Office 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 (MMR). Applicants can provide an immunization record signed by a physician or an official copy of the permanent high school health record including a report of the required immunizations. 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. If an applicant has religious beliefs that prohibit vaccination, the applicant must submit a notarized statement from a member of his or her clergy. Requests for exemptions should be made to the Admissions Office. Students born prior to January 1, 1957 are exempt from the immunization requirement.
5. Proof of English proficiency (see Proof of English Proficiency section).
6. Proof of financial support (see Proof of Financial Support section).

##### Provisional Admission

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 appropriate fee.
2. Preliminary U.S. high school transcript or preliminary evaluation of high school records.
3. Proof of English proficiency (see Proof of English Proficiency section).

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 may be admitted as an entering freshman with advanced standing.

## INTERNATIONAL TRANSFER STUDENTS

### Application Procedures for Transfer Students

A high school graduate or an applicant with the equivalent of high school graduation 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 26 earned semester hours must meet one of the following criteria:

- Must meet the international freshman admission standards (see International Freshmen section)

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 Admissions appeals process. If a transfer student is admitted with a cumulative GPA below 2.00, he or she is placed 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 undergraduate application for admission.
2. A non-refundable international application fee of \$100US and nonrefundable transfer evaluation fee of \$50US.
3. College records:
  - *Non-U.S. college* – evaluation of all college coursework taken after high school graduation and for college coursework taken in high school or as part of high school completion submitted directly to Marshall University Admissions Office by evaluation agency
  - *U.S. college* – official transcripts from the Registrar's Office of all accepted, accredited institutions attended must be sent directly to the Marshall Admissions Office. (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 records (if student has earned fewer than 26 college-level semester hours):
  - *Non-U.S. high school* – evaluation of high school records showing GPA mailed directly to Marshall University by evaluation agency.
  - *U.S. high school* – official, final transcript, including graduation date, sent directly from the student's high school to the Marshall University Admissions Office.
5. A valid immunization record, including measles and rubella vaccinations (MMR). Applicants can provide an immunization record signed by a physician or an official copy of the permanent high school health record including a report of the required immunizations. 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. If an applicant has religious beliefs which prohibit vaccination, the applicant must submit a notarized statement from a member of his or her clergy. Requests for exemptions should be made to the Admissions Office. Students born prior to January 1, 1957 are exempt from the immunization requirement.
6. Proof of English proficiency (see Proof of English Proficiency section).
7. Proof of financial support (see Proof of Financial Support section).

#### **Provisional Admission of Transfer Students**

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

1. Completed application for admission with \$100US international application fee and \$50US transfer evaluation fee.
2. Transfer applicants who have earned 26 or more semester hours from accepted, accredited institution(s) and who are currently enrolled while in good standing may be provisionally admitted pending receipt of evaluation of final college records or all outstanding official, final college transcripts.
3. Transfer applicants who have earned fewer than 26 semester hours from accepted, accredited institution(s), are currently enrolled while in good standing with a 2.00 or higher cumulative GPA on 12 graded college-level semester hours may be provisionally admitted pending receipt of evaluation of final college records or all outstanding official, final college transcripts.
4. Transfer applicants who have earned fewer than 26 semester hours from accepted, accredited institution(s), are currently enrolled while in good standing, and who meet minimum freshman admission requirements may be provisionally admitted pending receipt of evaluation of final college records or all outstanding official, final college transcripts.
5. If a student has fewer than 26 semester transfer hours s/he must have an evaluation of their final high school records with GPA or an official, final U.S. high school transcript with graduation date submitted directly to the Marshall University Admissions Office from the evaluation agency or U.S. high school.
6. Proof of English proficiency (see Proof of English Proficiency section).
7. Proof of financial support (see Proof of Financial Support section).

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.



# INTO MARSHALL UNIVERSITY

One John Marshall Drive  
Huntington, WV 25755, USA  
1-304-696-4686

E-mail: [into@marshall.edu](mailto:into@marshall.edu)

Website: <http://intohigher.com/marshall>

## Administration

Eric Fry, Center Director

Benjamin White, Academic Program Director

Stephanie Hurley, Director of Student Experience

Marshall University offers academic Pathway and English language training programs through the INTO MU Center.

## Undergraduate Pathway Programs

Undergraduate Pathway programs combine intensive language study, academic skills development, and academic coursework. The programs are designed to move students successfully through the first year of a four-year degree program. All courses taken in the Undergraduate Pathway are credit-bearing.

The Undergraduate Pathway programs are designed for students who:

- Want to study for an undergraduate degree in the U.S.
- Need to improve their English language skills
- Desire additional academic, language, and cultural support in order to succeed during their first year at a U.S. university
- Are not eligible for direct entry
- Any or all of the above

Undergraduate Pathway programs are available in:

- Business Administration
- Computer Science
- Engineering
- Fine Arts
- General
- Science
- Integrated Science and Technology

For more information please visit [www.intohigher.com/marshall/programs](http://www.intohigher.com/marshall/programs).

## English Language Programs

The Academic English, General English, and College Year Abroad programs provide students with high-quality English language training.

### Academic English

The Academic English program provides international students with an excellent opportunity to improve their English, develop academic skills, and adjust to the local culture and community. Six levels of instruction are offered across three 15-week terms. Students receive a minimum of 20 hours of classroom instruction per week. Successful completion of Level 4 (no grades below C at that level) fulfills the English language proficiency requirement for admission to the Undergraduate Standard Pathway programs; successful completion of Level 6 (no grades below B at that level) fulfills the English language proficiency requirement for direct admission to the university or admission to the Undergraduate Accelerated Pathway programs.

### General English

The General English program consists of five-week sessions designed for students at all levels of English who wish to improve their communication skills and learn about American culture. Students receive a minimum of 20 hours of classroom instruction per week.

### College Year Abroad

The College Year Abroad program is an extended version of General English. Students register for 25-week or 30-week programs and receive a minimum of 20 hours of classroom instruction per week.

For more information please visit [intohigher.com/marshall/programs](http://intohigher.com/marshall/programs).

## 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:

- completing all of the major and minor requirements for the desired degree, *including the Core Curriculum*;
- completing a minimum of 30 additional hours after receipt of a 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 completing the application for admission and by presenting evidence to the Admissions Office of the receipt of the baccalaureate degree in the form of an official transcript indicating that a baccalaureate degree was awarded.

## TRANSIENT (VISITING) STUDENTS

### Application Procedures for Transient (Visiting) Students

#### Students Visiting Marshall University 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. Transient students must submit an application to the Admissions Office for each term in which they wish to enroll and have the registrar at their home college send a letter of good academic standing to the Marshall University Admissions Office for each term in which they wish to enroll.

#### Marshall University Students Who Wish to Visit Other Institutions

Current Marshall University students who wish to enroll at another institution must complete the "Approval of Courses to be taken for Advanced Standing" form (available in the Admissions Office) prior to enrolling at another institution. If a student does not submit this form and attends another institution, s/he may be required to pay the transfer evaluation fee and reapply as a transfer student. Students who attend another institution for more than two semesters (excluding summer terms) must reapply as transfer students. This policy does not apply to students enrolled in the Regents Bachelor of Arts (RBA) program. A student who completes an advanced standing (transient approval) form must submit a transcript from the host institution for all semesters s/he attended. If the student did not actually attend the host institution for which approval was granted, that institution must provide documentation stating that the student was never enrolled there. Failure to provide these documents will result in a hold being placed on the student's record and the student being unable to register for subsequent terms.

#### 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, GED Completers, Home-School/Non-Accredited High 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. A student cannot earn more than 30 total hours while classified as non-degree. 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 a freshman 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 MU Admissions Office from the College Board. The 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 below for required scores on specific exams.

<i>AP Exams</i>	<i>Required Score</i>	<i>Marshall Equivalent</i>	<i>Credit Awarded</i>
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, 105	8
Biology	4	BSC 120, 121	8
Chemistry	3	CHM 203	3
Chemistry	4	CHM 211, 217	5
Chemistry	5	CHM 211, 212, 217, 218	10
Classics-Latin-Vergil	3	LAT 204	3
Classics-Latin-Literature	3	LAT 204 or 200-level unclassified if student has received credit for Vergil	3
Computer Science A	3	IST 264	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 213	6
English Language & Composition	3	ENG 101	3
English Language & Composition	4	ENG 101 and 201	6
Environmental Science	3	Elective	4
Foreign Language, French Language	3	FRN 101, 102	6
Foreign Language, French Language	4	FRN 101, 102, 203	9
Foreign Language, German Language	3	GER 101, 102	6
Foreign Language, German Language	4	GER 101, 102, 203	9
Foreign Language, Japanese Language and Culture	3	JPN 101, 102	6
Foreign Language, Japanese Language and Culture	4	JPN 101, 102, 203	9
Foreign Language, Spanish Language	3	SPN 101, 102	6
Foreign Language, Spanish Language	4	SPN 101, 102, 203	9
Foreign Language, Spanish Literature	3	Elective	6
Geography	3	GEO 100	3
Government and Politics, American	3	PSC 104	3
Government and Politics, Comparative	3	PSC 105	3
History, American	3	HST 230 & 231	6
History, European	3	HST 102 and 103	6
History, World	3	HST 101, 102, 103 (two of the three)	6

<i>AP Exams</i>	<i>Required Score</i>	<i>Marshall Equivalent</i>	<i>Credit Awarded</i>
Mathematics, Calculus AB	3	MTH 132	5
Mathematics, Calculus AB	4	MTH 130, 229	8
Mathematics, Calculus BC	3	MTH 130, 229	8
Mathematics, Calculus BC	4	MTH 229, 230	9
Music Theory	3	MUS 101	3
Music Theory	4	MUS 101, 111	5
Music Theory	5	MUS 111, 112, 113	6
Physics B	3	PHY 201	4
Physics B	4	PHY 201, 203	6
Physics C, Mechanics	3	PHY 211	4
Physics C, Electricity & Magnetism	3	PHY 213	4
Physics C, Electricity & Magnetism	4	PHY 211, 213	8
Psychology	3	PSY 201	3
Statistics	3	MTH 225 OR MGT 218	3

### INTERNATIONAL BACCALAUREATE

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

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

<i>IB Exams</i>	<i>4</i>	<i>5</i>	<i>6</i>	<i>7</i>
Advanced Math	MTH 130	MTH 130	MTH 229, 130	MTH 229, 130
Art/Design	ART 112	ART 112	ART 112, 214	ART 112, 214
Biology	BSC 104	BSC 104	BSC 120, 121	BSC 120, 121
Business	MGT 100	MGT 100	MGT 100,	MGT 100,
Chemistry	CHM 203, 217	CHM 203, 217	CHM 203, 204, 217, 218	CHM 203, 204, 217, 218
Classical Latin	LAT 101	LAT 101	LAT 101, 102	LAT 101, 102
Computing Science	IST 264	IST 264	IST 264	IST 264
Economics	ECN 250	ECN 250	ECN 250, 253	ECN 250, 253
English	ENG 101	ENG 101	ENG 101	ENG 101
French	FRN 101	FRN 101	FRN 101, 102	FRN 101, 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, 102	GER 101, 102
History	HST 103	HST 103	HST 103	HST 103
History of the Americas	N/A	HST 230, 231	HST 230, 231	HST 230, 231
Islamic History	HST 260	HST 260	HST 260, 261	HST 260, 261
Music	MUS 142	MUS 142	MUS 142, 111	MUS 142, 111
Physics	N/A	PHY 201, 202	PHY 201, 202, 203, 204	PHY 201, 202, 203, 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, 102	SPN 101, 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:

<i>CLEP Exams</i>	<i>Required Score</i>	<i>Marshall Equivalent</i>	<i>Credit Awarded</i>
Algebra, College	50	Math 130	3
Precalculus	50	Math 132	5
Am. Government	50	Pol. Sci. 104	3
Biology, General	50	Biology 104-105	8
Calculus w/ elem. Functions	50	Math 140	3
Chemistry, General	50	Chem 211-212	6
Info Systems and computer applications	50	IST 264	3
Macroeconomics, Principles of	50	Econ 253	3
Management, Principles of	50	Management 320	3
Marketing, Principles of	50	Marketing 340	3
Microeconomics, Principles of	50	Economics 250	3
Psychology, Introductory	50	Psychology 201	3
Sociology, Introductory	50	Sociology 200	3
College Mathematics	50	MTH 121, 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 Admissions Office 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 Admissions Office provided a completed residency application with all required supporting documentation is submitted by the end of the first week of classes of each new term. Thereafter, all requests for changes in residency status for currently enrolled students will be evaluated by the Registrar.

### **Title 133**

#### **Procedural Rule**

#### **West Virginia Higher Education Policy Commission, Series 25**

#### **Residency Classification for Admission and Fee Purposes**

### **SECTION 1. General**

- 1.1. Scope – Rule regarding residency classification of students for admission and fee purposes.
- 1.2. Authority – W. Va. Code §§18B-1-6, 18B-1-7, and 18B-10.
- 1.3. Filing Date – July 2, 2002
- 1.4. Effective Date – August 1, 2002
- 1.5. Repeal of Former Rule - Repeals and replaces Title 128, Series 34 and Title 131, Series 34

### **SECTION 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.

### **SECTION 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.

### **SECTION 4. Dependency Status**

4.1. A dependent student is one 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.

## **SECTION 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 Section 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.

## **SECTION 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.

## **SECTION 7. Aliens**

7.1. An alien who is in the United States on a resident visa or who has filed a petition for naturalization in the naturalization court, and who has established a bona fide domicile in West Virginia as defined in Section 3 of these rules, may be eligible for in-state residency classification: **Provided**, That person is in the state for purposes other than to attempt to qualify for residency status as a student. Political refugees admitted into the United States for an indefinite period of time and without restriction on the maintenance of a foreign domicile may be eligible for an in-state classification as defined in Section 3 of these rules. Any person holding a student or other temporary visa cannot be classified as an in-state student.

## **SECTION 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 Section 3 of these rules, regarding proof of domicile and intent to remain permanently in West Virginia.

## **SECTION 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:

9.1.1. 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.

9.1.1.1. 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.

9.1.1.2. 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.

9.1.2. 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.

9.1.3. Residency appeals shall end at the institutional level.



# Financial Information: Fees, Assistance, and Scholarships

**Bursar's Office**  
**1-800-438-5389 or 1-304-696-6620**  
***bursar@marshall.edu***  
***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 2013-2014 can expect estimated annual expenses at Marshall University to range from about \$17,900 to \$26,200, including personal expenses.

The following is a table of estimated costs for the 2013-2014 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.

	In-State	Metro*	Out-of-State
Tuition & Fees	\$6,216	\$10,856	\$14,446
Double-Occupancy housing	\$5,570	\$5,570	\$5,570
Board, unlimited meals per week	\$3,418	\$3,418	\$3,418
<b>Subtotals</b>	<b>\$14,918</b>	<b>\$19,228</b>	<b>\$22,918</b>

Incidental and personal: \$3,500 to \$4,000, depending upon individual needs.

NOTE: Some colleges within the university charge an additional fee and some classes require additional lab fees.

Warning: Do not calculate your expenditures based solely on these figures. They apply only to the 2013-2014 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 a variety of circumstances. Among those are your major, which specific classes you are taking, and where the classes are held. For a complete schedule of tuition and related fees for the current year, please visit [www.marshall.edu/bursar](http://www.marshall.edu/bursar).

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 2013-2014 academic year.

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\*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



## TUITION & ENROLLMENT FEES FOR ALL UNDERGRADUATE STUDENTS

Regular Semester - Fall 2013

Resident Rates	Metro Fee Rates*	Non-Resident Rates
<b>\$3,108.00</b>	<b>\$5,428.00</b>	<b>\$7,223.00</b>

Please note that all undergraduate students taking classes on the Huntington Campus will be assessed a \$50.00 student success fee in addition to the base tuition rate.

### PROGRAM-SPECIFIC FEES

Regular Semester

	Resident Rates	Metro Fee Rates*	Non-Resident Rates
College of Business Fee <sup>1</sup>	245.00	421.00	421.00
Fine Arts Fee <sup>1</sup>	125.00	200.00	200.00
Integrated Science & Technology Fee <sup>1</sup>	100.00	200.00	200.00
Nursing Fee <sup>1</sup>	150.00	450.00	450.00
Health Professions Fee <sup>1</sup>	125.00	250.00	250.00
CITE <sup>1</sup>	150.00	200.00	200.00
Journalism Fee <sup>1</sup>	25.00	25.00	25.00

### SPECIAL STUDENT FEES

Application Fees (non-refundable)

Undergraduate	30.00
Transfer Evaluation Fee	50.00
College of Health Professions	30.00
CLEP/DANTES Testing	15.00

Course Specific/Laboratory Fees:

CAM - Applied Music Fee	35.00
CAM - Art Fee	75.00
CAM - Journalism Lab Fee	50.00
CAM - Theatre Fee	40.00
COEPD - Clinical Lab Fee	25.00
COEPD - Student Teaching Fee	200.00
COHP - Health Science Lab Fee	50.00
COHP - Matriculation Fee	150.00
COHP - Nursing Lab Fee	100.00
COHP-SOK Activity Course Fee	40.00
COHP-SOK - Clinical Lab Fee	25.00
COHP-SOK - SCUBA Fee	200.00
COLA - Computer Lab Fee	30.00
COLA - English-Rendering Landscape	75.00

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\*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

<sup>1</sup>Program Specific Fees: College of Business Fee is assessed to all Junior and Senior Business majors. Fine Arts Fee is assessed to majors in the College of Arts and Media. Nursing Fee is assessed to Nursing majors. Health Professions Fee is assessed to College of Health Professions majors. CITE Fee is assessed to all Information Technology/Engineering Juniors and Seniors. Integrated Science & Technology Fee is assessed to all IST Juniors and Seniors. Journalism Fee is assessed to all School of Journalism and Mass Communications majors.



COS – Science Lab Fee	60.00
COS - Performance Assessment Fee	100.00
Electronic Course Fee-High School (per credit hour)	122.00
Electronic Course Fee-Undergraduate (per credit hour)	215.00
Enrollment Deposit	100.00
Graduation Fees*:	
Baccalaureate Degree	50.00
Certificate Fee	15.00
Diploma Replacement	50.00
Housing and Residence Life Fees:	
Improper Check-out Fee*	50.00
Mail Box Re-Key (per lock)	30.00
Reservation Deposit	200.00
Room Re-Key (per lock)	40.00
International Student Fee	50.00
Late Registration/Payment Fee*	25.00
Meal Card/ID Card Replacement	20.00
Off-Campus Course Fee (per credit hour)	35.00
Regents' BA Degree Evaluation	300.00
Regents' BA Posting Fee (per credit hour awarded)	10.00
Regional Campus Course Fee (per hour)	35.00
Reinstatement Fee – Course Schedule*	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	50.00
Study Abroad Fee	100.00
Transcript	8.00
University College - Placement Testing Fee	10.00

\*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 and a room with WIFI, and cable television. Each hall is managed by a Residence Director 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):

#### Residence Halls

##### *Double Occupancy*

First-Year Residence Halls	\$2,785.00
Buskirk/Twin Towers	\$2,468.00

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\*Rates are subject to change for 2013-14.

### *Deluxe Single Occupancy*

Buskirk (if available)	\$3,439.00
Holderby Hall	\$3,156.00
Twin Towers	\$3,439.00

### *Single Room Suite*

Gibson, Haymaker, Wellman, Willis	\$3,860.00
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### *Double Room Suite*

Gibson, Haymaker, Wellman, Willis	\$2,892.00
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## **Board Rates**

### Unlimited Meal Plan

w/ \$50 Flex Dollars	\$1,709.00
w/ \$150 Flex Dollars	\$1,809.00
w/ \$250 Flex Dollars	\$1,909.00

### *15 Meal Plan*

w/ \$100 Flex Dollars	\$1,723.00
w/ \$200 Flex Dollars	\$1,823.00

### *10 Meal Plan*

## **SUMMER TERM FEES (5 weeks): Residence Halls (unlimited meal plan)\***

Double Occupancy - To Be Announced

Single Occupancy - To Be Announced

## **COMMUTER MEAL PLANS\***

Fifty Meals w/\$50 Flex Dollars	\$383.00
Thirty Meals w/\$50 Flex Dollars	\$255.00
Twenty Meals w/\$50 Flex Dollars	\$198.00

## **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. If you have not paid your enrollment fees by the official due date you must obtain permission from the appropriate academic dean and the Office of the Registrar to register.

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. Contact the Office of the Bursar for current deferred payment plan information. A student's residence services fees (room and board) are due at a semester rate payable in accordance with dates established by the Department of Housing and Residence Life.

You can pay fees by MasterCard, Discover, or American Express by using 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 surcharge of 2.5% will apply to credit or debit card payments.

\*Rates are subject to change.

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 Aid 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 and require assignment to a state-authorized collection agency, the student additionally will be responsible for all collection costs incurred by the institution.

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

## REFUND PROCEDURES

Enrollment fees (tuition fees) will be refunded during the period designated by the Office of the Registrar 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* - Effective with Fall 2013 semester, 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. The student remains liable for any unpaid room balance due. A prorated refund will be processed for any unused portion of the board plan. Please note that meal assignments are billed for a full week thru Sunday.

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.

Refunds to students called to armed services 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 [www.fafsa.ed.gov](http://www.fafsa.ed.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 5 – 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 2014 summer terms, the student must have a 2013-2014 FAFSA on file. Submit a request by visiting [www.marshall.edu/go/summeraid](http://www.marshall.edu/go/summeraid).

## Eligibility Determination

### 1. 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 [www.fafsa.gov](http://www.fafsa.gov). Students will need their U.S. Department of Education (USDE) Personal Identification Number (PIN) to access their SAR.

### 2. Cost of Attendance

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

The COA that a financial aid package is based upon reflects average costs. Tuition and Fees are fixed costs for any given academic year. The chart below provides average tuition and fee costs for undergraduate students for the 2013-14 academic year. For actual *tuition and fee costs* visit the Bursar website at [www.marshall.edu/bursar](http://www.marshall.edu/bursar).

Books and Supplies are variable costs and depend upon your particular program of study. Room and board costs are variable, as well. Students who live on campus will be billed directly for housing and meal plan.

Transportation and Miscellaneous expenses are variable costs.

The COA table that follows is provided for planning purposes and represents estimated average costs for undergraduate students for the 2013-2014 academic year.

(continued)

	<i>WV Resident, Living with Parents</i>	<i>WV Resident, Living on Campus</i>	<i>Metro,<sup>2</sup> Living with Parents</i>	<i>Metro,<sup>2</sup> Living on Campus</i>	<i>Non-resident Living with Parents</i>	<i>Non-resident Living on Campus</i>
Tuition and Fees <sup>1</sup>	\$6,216	\$6,216	\$10,856	\$10,856	\$14,446	\$14,446
Room and Board <sup>3</sup> (Living Expenses)	\$2,950	\$9,256	\$2,950	\$9,256	\$2,950	\$9,256
Books & Supplies	\$1,100	\$1,100	\$1,100	\$1,100	\$1,100	\$1,100
Transportation	\$2,000	\$1,200	\$2,000	\$1,200	\$2,000	\$1,200
Miscellaneous	\$1,078	\$1,078	\$1,078	\$1,078	\$1,078	\$1,000
Average Loan Fees <sup>4</sup>	\$66	\$66	\$66	\$66	\$66	\$66
<b>Total</b>	<b>\$13,410</b>	<b>\$18,916</b>	<b>\$18,050</b>	<b>\$23,556</b>	<b>\$21,640</b>	<b>\$27,146</b>

<sup>1</sup>This figure is a basic tuition/fee charge. Some students are charged additional fees based upon their academic program. In addition, some classes require additional lab/course fees.

<sup>2</sup>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.

<sup>3</sup>Room and Board charges vary based upon residence hall assignment and meal plan. Marshall University policy requires all full-time freshmen and sophomores to live on campus. Students may request an exemption from this policy if the student's parent/legal guardian(s) live within 50 miles of campus by completing a Housing Release Request form. Students 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).

<sup>4</sup>This is applicable only if the student borrows on a Federal Direct Student Loan.

### 3. 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 of the eligibility issues referenced above.

### 4. 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 students respond to requests for information promptly because finalized financial aid awards are processed in the order of file completion date. To ensure that financial aid funds disburse as scheduled at the start of the fall semester, students must be registered for classes and submit all valid documentation by July 1. Students may submit documents after the July 1 deadline; however, they should be prepared to make payment arrangements with the Bursar Office in the event financial aid is not finalized by the billing due date. For students selected for verification, the Office of SFA, must have received verification documents, and a valid Student Aid Report no later than 120 days after the last day of enrollment or September 29, 2014, whichever is earlier for federal Pell Grant consideration. For all other financial aid programs, the deadline for verification is 30 days prior to the award period the student is enrolled or the last date of enrollment, whichever is earlier.

When a student has received an award notice from Marshall University, and corrections are made to the SAR (the processed FAFSA) after verification, a revised award notice will be sent if the student's eligibility for aid has changed.

## **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 includes Advance Placement (AP) and International Baccalaureate (IB) credits, as well as transfer credits that reflect on the student's academic transcript as courses that apply to a Marshall University degree.

### ***Requirements of the SAP Policy:***

The following components are measured to determine whether the student is meeting SAP standards: Qualitative, Quantitative, and Maximum Timeframe.

#### ***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 federal, state, and institutional scholarships 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 records within MILO.)

#### ***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 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 time frame 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 time frame 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 a 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 and Repeated Courses*

Remedial or developmental courses do not count toward the student's degree requirements; however, they are counted as earned hours and are used to determine a student's academic grade level or classification. Thus, developmental courses are calculated in the quantitative and maximum time frame measures.

(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 term during which the student attempts the 60th semester hour, and before he or she earns a baccalaureate degree, the student may apply for the D/F Repeat rule by filling out a form in his or her college office early in the semester in which the course is repeated. 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.)

#### *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, in which a student receives a grade of *I* for the course, are always 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, the credits the student earns at Marshall University under all undergraduate majors 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 indicated above at the conclusion of a payment period. A student assigned a Financial Aid Warning will be notified in writing. 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.

**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 and has had eligibility for financial aid reinstated. 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. However, students failing SAP standards who have had mitigating circumstances (e.g., death in the family, illness, involuntary military leave) may request reinstatement of their financial aid eligibility by completing the SAP Appeal for Financial Aid Reinstatement Form 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/go/fasap](http://www.marshall.edu/go/fasap).

The appeal, which must be typed, includes the following student requirements:

1. Detailed explanation for failure to meet SAP standards for each payment period the student failed to perform satisfactorily;
2. Documentation to support the reason for failure;
3. Student Graduation Plan (Degree Works) indicating which courses apply to the degree and which courses remain to complete the program of study;
4. If cumulative GPA is less than a 2.0, a copy of Academic Improvement Plan;
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; and
6. Meet and discuss the appeal with an academic advisor or dean and obtain his or her signature.

**SAP Appeal Deadlines:**

<i>Semester/Term</i>	<i>Date</i>
Fall Semester	One week prior to the first day of classes ( for 2013-14, August 19, 2013)
Spring Semester	One week prior to the first day of classes (for 2013-14, January 6, 2014)
Summer Terms	June 30 (for 2013-14, June 30, 2014)

**SAP Appeals Committee and Decision:**

The SAP Appeals Committee is composed of representatives from the Office of Student Financial Assistance, Student Affairs, and Academic Affairs. Students will be sent official notification of the appeals committee decision. The decision of the SAP Appeals Committee is final.

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 (e.g., enroll in UNI 102, UNI 103, live on campus, or enroll part time). In addition, all students placed on Financial Aid Probation will be provided a Financial Aid Academic Plan.

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 maximum timeframe) 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.

(continued)

(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. The student may appeal again for a future payment period within the published deadlines.

## 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:

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

As a rule your financial aid package is based on full-time enrollment and the Office of SFA uses your enrollment status on the first day after drop/add period (usually the 8<sup>th</sup> day of the semester) to determine your financial 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:

<i>Total Credits Earned</i>	<i>Academic Level</i>
0 - 25	1 <sup>st</sup> Year or Freshman
26 - 57	2 <sup>nd</sup> Year or Sophomore
58 - 89	3 <sup>rd</sup> Year or Junior
90 +	4 <sup>th</sup> Year or Senior

## 7. Dual Enrollment & 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. Students may download and print a Consortium Agreement Form by visiting [www.marshall.edu/sfa](http://www.marshall.edu/sfa) and clicking on the "Downloadable Applications & Forms link. It is located within the General Forms tab.

## 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 do 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](http://www.marshall.edu/sfa) and click on the Types of Aid tab.

## Notification and Disbursement of Awards

### 1. 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 [helpdesk@marshall.edu](mailto:helpdesk@marshall.edu) or call 1-877-689-8638.

### 2. 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.

Students are able to view Personal Announcements through their myMU accounts. Typically when the Office of Student Financial Assistance sends a student an email, the student will also receive the same message in their Personal Announcement tab.

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

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

The earliest financial aid may credit to students' billing accounts 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.

### 4. 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](http://www.marshall.edu/bursar).

### 5. 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.

A student may choose one of three financial aid refund options:

1. Depositing the financial aid funds directly to his/her Higher One card account;
2. Direct deposit to a current bank account; or,
3. Receiving a paper check by mail.

Visit the Bursar website at [www.marshall.edu/bursar](http://www.marshall.edu/bursar) for more information on financial aid refunds. Note: In order to receive your refund promptly, you must have a Higher One card, which is essentially the student's Marshall University ID card.

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## 5. 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 impact 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 your 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 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*

<i>Period of Withdrawal During a Semester</i>	<i>Percentage of Aid Returned to Program</i>
During the first 10% of the term	90%
From 11% to 25% of the term	70%
From 26% to 50% of the term	50%

For example, if a student withdraws during the 5<sup>th</sup> 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:

$$\frac{(\text{100\% of the Aid That Could be Disbursed minus the \% of Earned Aid}) \times \text{Total Amount of Aid That Could Have Been Disbursed}}{\text{Total Amount of Aid That Could Have Been Disbursed}}$$

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 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.

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 [www.fec.gov/votregis/vr.shtml](http://www.fec.gov/votregis/vr.shtml). You must be registered 30 days prior to any election.

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](mailto:sfa@marshall.edu).



# Learning Opportunities and Resources

## ACADEMIC ADVISING

**Sherri Stepp, Director, University College**

**Laidley Hall 102/304-696-3169**

***advising@marshall.edu***

***www.marshall.edu/uc***

The University College Advising Center provides advising sessions for conditional admits, early entry/dual enrollments, special admits, and Liberal Arts undecided students. The center offers a supportive staff and atmosphere where all students may obtain information regarding various majors and academic opportunities. Although not necessary, appointments are encouraged.

Academic advising is structured differently throughout the various colleges at Marshall. Each student is strongly encouraged to consult his or her dean's office for information regarding advisor assignments, curriculum requirements, and support services.

## CAREER SERVICES CENTER

**Denise Hogsett, Director**

**Fifth Avenue and 17th Street/304-696-2370**

***career-services@marshall.edu***

***www.marshall.edu/career-services***

The Career Services Center assists students in all phases of professional development. The career professionals at the center can assist students in the areas of selecting a major, developing a focused resume, acquiring effective interviewing skills, or searching for part-time, internship or entry level employment.

The services include:

**Online Career Management (Marshall JobTrax)** – This employer/student database allows students to build an online credential file of resumes and other documents as well as search for jobs. Employers post jobs, giving students direct contact with local and national companies. They may apply for these positions directly with the company, often by submitting their resumes right from their JobTrax account.

**Career Advising and Testing** – The center offers career planning assistance that spans all aspects of student professional development, including both online and individual assessment to help the undecided or wavering student with career exploration and major selection.

**Workshops/Seminars** – The center provides informational workshops each semester on resume development, interview skills, networking and job search. Dates and times can be found on the center's website each semester.

**Resume Development** – Experienced staff will guide students in preparing effective and professional resumes.

**Job Search Assistance** – Career advisors will advise students on the job search process. From part-time employment while attending the university to entry level employment upon graduation, students can obtain the skills necessary to make an effective job search.

**Internships** – The center works with undergraduate and graduate academic programs to assist students in procuring internships. All students are encouraged to gain work experience with at least one internship before graduation.

**Career Expos** – Students can network with employers through three major career expos each year.

**On-Campus Recruiting** – The center hosts visiting local, regional and national employers interested in recruiting Marshall University students and graduates.

**Website** – *www.marshall.edu/career-services* provides information concerning all career-related services and activities available to students/alumni, faculty, parents and employers.

**Marshall Mentor Network** – Allows students to connect with MU alumni and other professionals for career related and professional advice before they graduate. Students may search the mentor database on JobTrax and request to connect with a mentor related to their major or chosen career.

## **CENTER FOR AFRICAN AMERICAN STUDENTS**

**Maurice Cooley, Director**

**Memorial Student Center 1W25/304-696-6705**

***cooley@marshall.edu***

***www.marshall.edu/caas***

The Center for African American Students (CAAS), under the auspices of the Office of Multicultural 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**

**112 Gullickson Hall/304-696-4748**

***cegas@marshall.edu***

***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**

**Sherri Smith, Director**

**109 Old Main/304-696-5268**

***catl@marshall.edu***

***www.marshall.edu/catl/***

The Center for Teaching and Learning helps faculty enhance the nature and quality of the educational experience of all Marshall students through instructional and career development opportunities. University faculty must be experts in the processes of teaching and learning as well as experts in their disciplines. The activities of the center are designed to encourage innovative and effective teaching methods that will stimulate student learning.

The center is composed of the faculty development program (CTL), the Writing Across the Curriculum program, the Office of Assessment and Program Review, and the Service Learning Program.

## **CHILD DEVELOPMENT ACADEMY**

**520 22<sup>nd</sup> Street/304-696-5803**

**Susan Miller, Director**

***millers@marshall.edu***

***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.

## **COMPUTING SERVICES**

**Arnold R. Miller**

**Executive Director, Computing Services and**

**Asst. Vice President of Information Technology**

**307 Drinko Library/304-696-2677**

***computing@marshall.edu***

***www.marshall.edu/it***

The Marshall University Computing Services (UCS) administrative offices are located on the fourth floor of the Drinko Library on the Huntington Campus.

### **Online Support**

The IT website is where students and staff can find the most up-to-date information. It exists to provide information, facilitate communications with our customers, and provide a secure source for downloading software such as the free anti-virus software which the University licenses for all users, and other software. Go there and get yours now at *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/ucs*. 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 on the UCS web site at *https://www.marshall.edu/ucs/networking/wireless/mapsindex.asp*.

### **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 Sungard Higher Education'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, and courseware delivery, and electronic publishing packages.

## **DIGITAL MEDIA SERVICES (formerly Instructional Television and Video Services)**

**Eric Himes, Director**

**102B Communications Building/304-696-2974**

***www.marshall.edu/it***

***ITVS@marshall.edu***

## **DRINKO ACADEMY**

**Alan Gould, Executive Director**  
**Old Main 211/304-696-3183**  
***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 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, have been long-time 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, Interim Director**  
**Myers Hall/304-696-6316**  
***help@marshall.edu***  
***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)  
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)

*(continued)*

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**

**John F. Yaun, 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 compliment 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 are automatically entitled to a computer account on MUnet at no extra cost. Students attending Orientation are provided their MUnet account usernames and passwords. Students may also receive their MUnet usernames and passwords by following these steps:

- Take your Marshall University ID to the Drinko 24-Hour Study Center or the Drinko Library Circulation desk (both are located in the Drinko Library and Information Technology Center), or the South Charleston Information Technology office.
- Tell one of the assistants that you would like your Computer Account.
- The assistant will print an account sheet that contains details about your MUnet Account, which will consist of your last name followed by a number [e.g., Smith12, Jones1, or Henderson1 (the first account assigned to a student with the last name of Henderson)]. The pre-assigned user-id and password contained on the account sheet will give you access to everything you need to make full use of the campus network and the Internet.

### **Information Technology Technical Assistance Line (“Help Desk”)**

Information Technology provides a Help Desk for MUnet account holders, which is available by calling one of the numbers below:

- 304-696-3200 in the Huntington calling area
- 304-746-1969 in the Charleston calling area
- 877-689-8638 toll-free outside the Huntington/Charleston calling areas

MUnet account holders can also request assistance by stopping by the Drinko Circulation and Service Desk located on the first floor of the Drinko Library Information Center or via e-mail by sending the request to [helpdesk@marshall.edu](mailto:helpdesk@marshall.edu). The Help Desk hours of operation are typically from 8 a.m. until 9 p.m. Monday through Friday, and extended to 1a.m. when qualified student work-study personnel are available, with a technician usually available on weekends on an “oncall” basis.

The most current information on operating hours can always be found at [www.marshall.edu/inforesources](http://www.marshall.edu/inforesources).

## **INFORMATION TECHNOLOGY OFFICE**

**Jan I. Fox, Senior Vice President**  
**305 Drinko Library/304-696-6706**  
**[it@marshall.edu](mailto:it@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 is committed to improve 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, distance education, library and computing resources for all Marshall University campuses and 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.

## **LIBRARIES**

**Monica Brooks, Assistant Vice President for Information Technology: Online Learning and Libraries**  
**University Libraries**  
**306 Drinko Library/304-696-6474**  
**[library@marshall.edu](mailto:library@marshall.edu)**  
**[www.marshall.edu/library](http://www.marshall.edu/library)**

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, the Hoback Chemistry Library in the Science Building, and the Library and Research Commons on the South Charleston campus. Together, the University Libraries’ holdings support teaching and research needs, with close to 500,000 volumes (including audiovisual materials) and access to more than 20,000 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 done via 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 or print form, often in a matter of days. Courier services also enhance turnaround time and overcome geographical limitations.

*The John Deaver Drinko Library* is open 24/5 and houses more than 140,000 volumes, current 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 close to 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 Hoback Chemistry Library*, consisting of chemistry journals and monographs, is accessible to students and faculty in the Chemistry Department in the Science Building. Maintained by a chemistry faculty member, access is by arrangement only and handled by department personnel (304-696-2430).

*The Library and Research Commons* on the South Charleston campus is located in the Robert C. Byrd Academic and Technology Center. Distance students are eligible for library services that are unique to their needs. For details, go to the South Charleston library's home page [www.marshall.edu/musclibrary](http://www.marshall.edu/musclibrary)). 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.

## **MARSHALL TECHNOLOGY OUTREACH CENTER**

**Kelli Mayes, Director**

**214 Communications Building/304-696-3325**

**[mayes@marshall.edu](mailto: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](mailto: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 Marshall University Foundation Hall, home of the Erickson Alumni Center, is located at the intersection of 5<sup>th</sup> Avenue and John Marshall Drive. The building opened in February of 2010.

## MU ONLINE

Monica G. Brooks, Assistant Vice President for Information Technology: Online Learning and Libraries  
Online Learning  
306 Drinko Library/304-696-6474  
[www.marshall.edu/muonline](http://www.marshall.edu/muonline)  
[muonline@marshall.edu](mailto:muonline@marshall.edu)

**MUOnLine Design Center, CB211, hours: 9 a.m. to 5 p.m. M-F:** The Marshall University online course program is supported by Instructional Design Specialists and a team of well-trained student developers who aid faculty in developing and delivering online courses. In addition to development support, the MUOnLine Design center staff also provide regular training and workshop opportunities to faculty who participate in any aspect of online course delivery and support. Blackboard Learn is the electronic course delivery software used to power the online system and its peripheral programs. Housing approximately 600 e-courses, with up to 250 sections per term, and serving over 13,000 students annually, this program grows steadily each year to meet student needs by providing quality, affordable, and convenient online courses.

**Faculty Development Committee for Multimedia Instruction (FDCOMI):** Faculty interested in developing an online course or in using an online course section as a supplement to a face-to-face class, can contact the Faculty Coordinator for Online Instruction to 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.

**Marshall Technology Outreach Center (MTOC):** The center allows Marshall University to enhance the lives of the community through integrating the university externally and dissolving barriers to traditional technology education. Programs include Online College Courses in the High Schools (OCCHS) and ongoing K-12 technology partnerships including teacher-training initiatives and staff development.

**Information Technology Assessment:** Another component of MUOnLine is the integration of information literacy, computer literacy, and over-all critical thinking competency within the digital information environment. By using the Educational Testing Service's iSkills™ assessment, we can provide national benchmark data to aid teaching faculty in addressing information literacy needs and improving the teaching and learning process at all levels.

## MULTICULTURAL AFFAIRS

Shari Williams-Clarke, Vice President  
Old Main 107 / 304-696-4677  
[www.marshall.edu/mcip](http://www.marshall.edu/mcip)  
[mcip@marshall.edu](mailto: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, the Division of Multicultural Affairs is committed to developing the potential of all students by creating and maintaining an environment that promotes and fosters a multicultural, international, global community. Multicultural Affairs is organized to provide underrepresented populations with programs that enhance knowledge, skills and awareness to function in a complex global society.

### The Division of Multicultural 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 Multicultural Affairs

Marshall University Multicultural Affairs comprises the Office of the Vice President for Multicultural 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 Multicultural 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, Multicultural/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 Multicultural 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 Multicultural 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.

### **Multicultural Leadership Ambassadors**

The Multicultural 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 Multicultural 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.

### **Multicultural Faculty in Residence Program**

The Multicultural 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 Multicultural 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 in the Marshall University community, provide research assistance, guidance, and information on publishing.

For additional information contact:

Dr. Shari Williams-Clarke  
Vice President for Multicultural Affairs  
304-696-4676  
[clarkes@marshall.edu](mailto:clarkes@marshall.edu)  
[www.marshall.edu/mcip](http://www.marshall.edu/mcip)

### **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 the 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 Multicultural 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.

## **NATIONAL STUDENT EXCHANGE**

**University College, Laidley Hall 115/304-696-3169**

***NSE@marshall.edu***

***www.marshall.edu/uc/national-student-exchange/***

The National Student Exchange 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, Coordinator**

**304-696-2354; (1-800-438-5392)**

***www.marshall.edu/recruitment/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. Most important, new students will meet with an academic advisor, plan their course schedules, and register for classes. 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, Laidley Hall 115/304-696-3169**

***www.marshall.edu/uc***

Students are placed in ENG 101 and college math by meeting a minimum score on the ACT or SAT. ENG 101 requires an ACT of 18 or SAT of 450, or successful completion of ENG 099. College math requires an ACT of 19, an SAT of 460, or successful completion of MTH 098 and/or MTH 099. Students who do not meet the above prerequisites for math may challenge their placement by taking an exam administered by University College in Laidley Hall. To schedule an exam and obtain information to prepare for the exam, please call 304-696-3169. Students may contact the English Department at 304-696-6100 for information on how to schedule an essay exam to be evaluated for placement in the English composition sequence.



## **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.

Any student who is interested in one of the medical professions may stop by the College of Science dean's office (Science 270) and pick up a small booklet that will answer most questions. The booklet lists all requirements, a list of pre-professional advisors, pertinent phone numbers, and other valuable information.

All of the professional schools require some form of lengthy exam that tests a student's knowledge of the sciences, math, and verbal skills. Normally these exams are taken during the junior year. Information on the exams and test application packets can be picked up in Science 270.

The dean's office (Science 270) has application materials for most professional schools and can also assist in getting letters of recommendation from faculty members

## **PSYCHOLOGY CLINIC**

**Keith Beard, Director**

**Harris Hall 449/ 304-696-2772**

***[www.marshall.edu/psych/psychology@marshall.edu](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**

**Cheryl Brown, Political Science**

**Smith Hall 780/304-696-3598**

***[brownca@marshall.edu](mailto:brownca@marshall.edu)***

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:

488	Directed Studies	3 hours
489	Seminar in Public Service	3 hours
490	Public Service Internship	6 hours

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***

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**

**Stephen Hensley, Dean of Student Affairs**  
**2W40B Memorial Student Center/304-696-6422**  
**[student-affairs@marshall.edu](mailto:student-affairs@marshall.edu)**  
**[www.marshall.edu/student-affairs](http://www.marshall.edu/student-affairs)**

### **Student Affairs Dean's 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 dean's office are:

1. Student Activities and Involvement
2. Recognized Student Organizations
3. Office of Student Conduct
4. Student Government
5. Student Advocacy
6. Parent Programs
7. Greek Affairs (fraternity and sorority)
8. Office of Community Engagement

### **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 and career counseling; health education; returning students and disabled student services.

All units of the Student Development Center are located on the first floor of Prichard Hall (304-696-3111):

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 works both on an appointment and a walk-in basis. Same-day appointments are normally made. To make an appointment, or for more information on the Student Health clinic call 691-1100.

Marshall University recommends that all students carry medical insurance. For information on health insurance call Student Health Education at 304-696-4800.

## **STUDENT RESOURCE CENTER**

**Memorial Student Center, 2nd Floor/304-696-5810**  
**[src@marshall.edu](mailto:src@marshall.edu)**  
**[www.marshall.edu/src](http://www.marshall.edu/src)**

The Student Resource Center supports and enhances the academic, professional and personal goals of Marshall University students by providing opportunities for students to meet with staff to evaluate and help resolve academic and other service-related challenges. When students need help and they don't know where to go to find the help they need, the Resource Specialists can help students resolve their concerns or work with other campus staff to find a resolution. Resource Specialists are trained to handle questions that range from basic academic advising, registration, career services and coordinating the student's academic success plan with professional career goals. Student Resource Specialists also serve as the advisors on record for undecided students. The SRC is located in the Memorial Student Center.

## STUDENT CONDUCT

**Lisa Martin, Director**

**2W38 Memorial Student Center/304-696-2495**

***martil@marshall.edu***

***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 130/304-696-6846**

***sss@marshall.edu***

The Student Support Services Program is a federally funded program which provides a wide range of personal, academic and cultural enrichment programs to a specifically identified group of Marshall students. In a "Home-Away-From-Home" atmosphere, Student Support Services students meet regularly with their assigned counselors to discuss and plan their academic, personal and career progress. Supplemental Instruction tutoring is also offered to program students for courses which they may find difficult.

## STUDY ABROAD

**Old Main 320/ 304-696-2379**

***studyabroad@marshall.edu***

***www.marshall.edu/cip/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 Center for International Programs Office 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.

### Types Of Study Abroad Programs

#### INTERNATIONAL EXCHANGE PROGRAM:

Marshall University currently maintains student exchange programs with Anglia Polytechnic University in Cambridge, England (for science and liberal arts majors), Buckinghamshire College outside London (for business majors), Kansai-Gaidai University in Osaka, Japan (requires two semesters of Japanese language here), Keimyung University in Taegu, Korea, and Auckland Institute of Technology, New Zealand.

Marshall University is a member of International Student Exchange Program (ISEP) which provides access to over 120 study sites in 35 countries. Exchange programs in English are not only in English-speaking countries but in Bulgaria, the Czech Republic, Denmark, Estonia, Finland, Hong Kong, Hungary, Iceland, Japan, Korea, Latvia, the Netherlands, South

Africa, Sweden and Thailand. Students can search ISEP programs online by location, major or language of instruction at [www.isep.org](http://www.isep.org).

### **JUNIOR YEAR ABROAD:**

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

### **SEMESTER ABROAD:**

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

### **SHORT-TERM STUDY ABROAD:**

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

### **TRAVEL-STUDY TOURS:**

These are usually very short-term events (over Spring Break), which involve travel rather than residential study.

Students who enroll in study abroad programs can maintain their Marshall student status by registering for the appropriate section of SA 101 or SA 102 for exchange students, and SA 301 for students otherwise studying abroad. (See Study Abroad director for details.)

### **Transfer of Foreign Credits/Grades**

1. Students who plan to study abroad should consult with the Study Abroad Director in the Center for International Programs. The Director will provide a copy of the procedures for obtaining credit for transfer courses and the Study Abroad Approval Form.
2. Foreign study courses can be taken for letter grades or as Credit/No Credit, depending on the grading system of the host institution. If a student chooses the Credit/No Credit grading, he or she must follow these steps to ensure that the credit will count toward major, minor, or core requirements:
  - Exchange program students must obtain advance approval for courses taken Credit/No Credit from the department chair in which the courses will be credited.
  - All other students must obtain approval for courses taken Credit/No Credit when the Study Abroad Approval Form is done.
  - Students can earn up to 3 hours of international study credit.
  - Students must take all or no hours for Credit/No Credit.

### **Steps To Prepare**

1. Commit to study abroad and begin planning.
2. Gather information—use the study abroad library in the Center for International Programs Office, Old Main, 320. Use the Drinko Library to find more details. Also, check out online sources for study abroad.
3. Estimate costs—talk with parents, the Financial Aid Office and the Study Abroad Director.
4. Decide on a program—semester, summer, or a full year. Decide on a country and on what language you may need.
5. Consult often with the Study Abroad Director 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](mailto: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.

## **TUTORING SERVICES**

**University College, Laidley Hall 101/304-696-6622**

**Patricia Gallagher, Coordinator**

***tutoring@marshall.edu***

***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. Individual tutoring is limited to two hours per week in up to two subjects. 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**

**Shirley Lumpkin, Director**

**Old Main 121/304-696-6450**

***www.marshall.edu/wac***

All Marshall University undergraduates must take one Writing Intensive class, 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.

## **WRITING CENTER**

**Kelly Prejean**

**Drinko Library, 2nd Floor/304-696-2405**

***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 Web site 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.

## **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.

After the student registers for courses, the student and/or eligible parent(s) may request a copy of the policy Education Records: Privacy Rights of Parents and Students from the Student Legal Aid Center, MSC, 2W29.



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 Dean of Student Affairs.

Requests for further clarification on this Act, the regulations, and University policy should be directed to the Dean of Student Affairs or Student Legal Aid Center.

## **SEXUAL HARASSMENT POLICY STATEMENT**

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

- (a) 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
- (b) making submission to or rejection of such conduct the basis for employment or educational decisions, or
- (c) 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.

## **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 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.

*(continued)*

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*.

### **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 (a) local media, (b) MU Alert, and (c) 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: (a) Point Pleasant, 304-674-7239; (b) Beckley, 304-252-0719; (c) 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 110, (304-696-6690) 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](http://www.marshall.edu/academic-affairs).

## 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.

(continued)

- *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, or the Academic Dean. Sanctions for academic dishonesty may be imposed even if a student withdraws from an individual course or from the university entirely. The instructor may impose the following sanctions:

- A lower or failing project/paper/test grade;
- A lower final grade;
- Failure of the course;
- Exclusion from further participation in the class (including laboratories or clinical experiences).

The following sanctions may be recommended by the instructor but will need to be imposed by the department chair, academic dean or the Office of Academic Affairs:

- Exclusion from an academic program;
- Academic probation for up to 1 year;
- Academic suspension for up to 1 year;
- Dismissal from the university.

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 Judicial Affairs. A student will be informed in writing by the instructor or responsible office, of any charges and subsequent sanctions imposed for academic dishonesty (See "Reporting" below). Written notification of academic dishonesty charges (and the inclusion of confirmed charges/sanctions in a student's records) is designed to inform a student of the potential repercussions of repeat offenses and his/her rights of appeal.

If a student believes that charges of academic dishonesty have been erroneously levied, he/she should appeal such charges in accordance with the process outlined below.

Sanctions for repeated academic dishonesty offenses will be imposed by the Office of Academic Affairs after consultation with the appropriate department chairs and deans. A student's record of academic dishonesty offenses will be maintained throughout his/her enrollment at Marshall University, and the period of time between offenses may have no impact on sanctions for repeated offenses.

A student with a second academic dishonesty offense during his/her enrollment at Marshall University will be academically suspended for a period of time not to exceed one academic year (to include summer terms).

A student with a third academic dishonesty offense during his/her enrollment at Marshall University will be dismissed from the university.

## 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 ten (10) 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.

### **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.

*(continued)*



- 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.

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	0-25	26-57	58-89	90 or more
Quality Point Deficit	20	15	12	9

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.**

#### c. 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 time not to exceed 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 a copy of a 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.

(continued)

- 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

Sanctions for academic dishonesty may be imposed by the instructor of the course, the department chairperson, or the Academic Dean. Sanctions for academic dishonesty may be imposed even if a student withdraws from an individual course or from the university entirely.

- a. The instructor may impose the following sanctions:
  - A lower or failing project/paper/test grade.
  - A lower final grade.
  - Failure of the course.
  - Exclusion from further participation in the class (including laboratories or clinical experiences.)
- b. The instructor may also refer the matter to his/her department chairperson for additional sanctions. If allegations are referred to the department chairperson, it must be within thirty (30) days from the date of the alleged offense. This process starts with the dean if there is no department chairperson. The following sanctions may be recommended by the instructor but will need to be imposed by the department chair, academic dean or the Office of Academic Affairs:
  - Exclusion from an academic program.
  - Academic probation for up to one (1) year.
  - Academic suspension for up to one (1) year.
  - Dismissal from the university.
- c. 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 Judicial Affairs.
- d. A student will be informed in writing by the instructor or responsible office of 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.
- e. 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 ten (10) days of the accusation. The 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." Instructors are encouraged to give a copy of the "Academic Dishonesty Form" to a student accused of an offense. However, 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.) should be reported to the Office of Academic Affairs within ten (10) days.

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.

- f. Sanctions for repeated academic dishonesty offenses will be imposed by the Office of Academic Affairs after consultation with the appropriate department chairs and deans.
  - A student's record of academic dishonesty offenses will be maintained throughout his/her enrollment at Marshall University, and the period of time between offenses may have no impact on sanctions for repeated offenses.
  - A student with a second academic dishonesty offense during his/her enrollment at Marshall University will be academically suspended for a period of time not to exceed one academic year (to include summer terms.)
  - A student with a third academic dishonesty offense during his/her enrollment at Marshall University will be dismissed from the university.

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 0-25 GPA hours will be suspended if they have 20 or more quality point deficiencies; with 26-57 hours, they will be suspended with 15 or more quality point deficiencies; with 58-89 hours, they will be suspended with 12 or more deficiencies; and with 90 or more hours, they will be suspended with 9 or more deficiencies.

When a student returns to Marshall after any suspension, the student will be placed on probation and must follow all of the requirements of his/her Academic Improvement Plan. Failure to meet all of the requirements of the Academic Improvement Plan or exceeding the Quality Point Deficits described above will result in suspension. A second suspension will be for a period of one calendar year. Third and subsequent suspensions will be for a period of two calendar years each.

2. For Academic Dishonesty

In those cases in which a student has been found guilty of a second academic dishonesty offense, he/she will be academically suspended for a period of time not to exceed one academic year (to include summer terms). During such period the student may not enroll in any course or program offered by Marshall University or any of its constituent colleges or schools.

D. Academic Dismissal

This is defined as termination of student status, including any right or privilege to receive some benefit, or recognition, or certification. A student may be academically dismissed from a limited enrollment program and remain eligible to enroll in courses in other programs at Marshall University; or a student may be academically dismissed from the institution and not remain eligible to enroll in other courses or programs at Marshall University. The terms of academic dismissal from a program for academic deficiency shall be determined, defined, and published by each of the constituent colleges and schools of Marshall University. Academic dismissal from a program or from the University will also be imposed for violation of the University policy on academic dishonesty.

## V. Academic Appeals

The intent of the appeals process is to treat all parties fairly, and to make all parties aware of the appeals procedure.

*Please Note:* Notwithstanding any other provision in Marshall University catalogs or policy documents, only students who are or will be dismissed from a program or from the University as a direct and immediate consequence of any academic sanction administered by the University may, at their own discretion and expense, retain legal counsel for representation during all relevant administrative appeal proceedings.

A. Student Appeals for Instructor Imposed Sanctions:

In cases where a student is appealing a grade, the grade appealed shall remain in effect until the appeal procedure is completed, or the problem resolved.

In those cases in which a student has received an instructor-imposed sanction, including a lower final grade in or failure of the course or exclusion from further participation in the class, the student shall follow the procedures outlined below:

1. The student should first attempt a resolution with the course instructor. This initial step must be taken within ten (10) days from the imposition of the sanction or, in the case of an appeal of a final grade in the course, within thirty (30) days of the beginning of the next regular term. The student who makes an appeal is

responsible for submitting all applicable documentation. The course instructor is to respond to the student in writing within ten (10) days after the student has submitted the appeal documentation. If the course instructor does not respond to the student in the given time frame, the appeal process continues to the next level. If the instructor is unavailable for any reason, the process starts with the department chairperson or division head.

2. If the procedure in Step 1 does not have a mutually satisfactory result, the student may appeal in writing to the department chairperson or division head within ten (10) days after the action taken in Step 1, who will attempt to resolve the issue at the departmental level. The department chairperson or division head is to respond to the student in writing within ten (10) days after the student has submitted the appeal documentation. If the department chairperson or division head (or representative) does not respond to the student in the given time frame, the appeal process continues to the next level. When a student appeals a final grade, the faculty member must provide all criteria used for determining grades.
3. Should the issue not be resolved at the departmental level, either the student or instructor may appeal in writing to the Dean of the college in which the course is offered within ten (10) days of the action taken in Step 2. This person is to respond to the student or instructor in writing within ten (10) days after the student has submitted the appeal documentation and will attempt to achieve a mutually satisfactory resolution. If the person named above does not respond to the student in the given time frame, the appeal process continues to the next level. The Dean of the college in which the student is enrolled will be notified.
4. Should the issue not be resolved by the Dean of the college within which the course is offered, either the student or instructor may appeal in writing within ten (10) days of the action taken in Step 3 to the Budget and Academic Policy Committee which shall 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. 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 or the instructor be dissatisfied with the determination of the Academic Appeals Board then either party may file an appeal with the Provost and Senior Vice President for Academic Affairs within thirty (30) days from receipt of the decision of the Board. This person has ten (10) days to respond in writing to the student or instructor. The decision of the Provost and Senior Vice President for Academic Affairs shall be final.

**B. Appeals for Academic Dishonesty:**

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

1. In those cases where the instructor imposes a sanction pursuant to part IV, A, only, and does not refer the matter to the department chairperson or division head for additional sanctions, the student may appeal the sanction in accordance with the procedures described in part V. Academic Appeals (A).
2. In those cases where the matter is referred to the department chairperson or division head for additional sanctions, this action must occur within thirty (30) days of the alleged offense. The chairperson or division head shall bring together the student involved, and the faculty member, and/or other complainant within ten (10) days from the date of referral.
3. If the student denies guilt or disagrees with the sanction imposed, or if the faculty member, other complainant, or chairperson or division head thinks that the penalties are insufficient for the act complained of, the case shall be forwarded in writing by the chairperson or division head to the student's Academic Dean within ten (10) 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 ten (10) 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 ten (10) 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 ten (10) days after the hearing to make notification of the determination to the student and instructor. It may not always be possible to meet the above conditions because many of these appeals occur at times when school is not in session. However every effort will be made to schedule appeal hearings in a timely and reasonable manner.



5. Should the student, faculty member, or other complainant be dissatisfied with the determination of the Academic Appeals Board or the Hearing Panel, then he/she may file an appeal with the Provost and Senior Vice President for Academic Affairs within thirty (30) 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.

(continued)

## VI. *Academic Appeals Board*

### A. Description and Jurisdiction:

The Academic Appeals Board is a permanent subcommittee of the Budget and Academic Policy Committee. It is composed of experienced Hearing Officers and is established to determine whether appeals arising from the following should result in a hearing:

1. Instructor-imposed sanctions, including: lowering of final course grade, failure of course, or exclusion from further participation in the class.
2. Final course grades.
3. Sanctions imposed for academic dishonesty.
4. Dismissal from an academic program.
5. Dismissal from the University.
6. Such other cases as may be referred to the Board.

### B. Function:

The University Academic Appeals Board collectively decides whether:

- a) The prior steps of the appeal process have been completed.
- b) The claim (if substantiated) would result in the overturning of the academic sanction. This means that some policy may have been violated in the application of the sanction, arbitrariness or capriciousness may 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 sixty (60) days of receiving the written request. Upon written request, the Hearing Officer may, at his/her discretion, grant a continuance to any party for good cause.



- B. The Hearing Officer will notify the appellee, appellant, and other appropriate parties in writing at least five (5) days prior to the hearing, of the date, time, and place of the hearing. A statement of the facts and evidence to be presented in support of the student's grounds for appeal will be provided to the appellee in appropriate cases.
- C. The appellant student and the appellee have the right to an advisor. Advisors must be members of the University community (faculty, staff, or student). Such advisors may consult with, but may not speak on behalf of their advisees or otherwise participate directly in the proceedings, unless they are given specific permission to do so by the Hearing Officer.
- D. The appellant student has the right, at his or her own discretion and expense, to retain legal counsel for representation only when he/she is or will be dismissed from a program or from the University as a direct and immediate consequence of any academic sanction administered by the University. In these cases an attorney is allowed to fully represent and speak on behalf of the appellant student. Rules of evidence and other formal rules of courtroom procedure do not apply. The Hearing Officer is authorized to decide what is relevant and what is not relevant.
- E. Prior to the scheduled hearing, the members of the Hearing Panel may convene in closed session to examine the content of the appeal, the specific issues to be considered, and all supporting documents.
- F. The student with his/her advisor, if any, will be called before the Hearing Panel and the Hearing Officer will then restate the nature of the appeal and the issues to be decided.
- G. The hearing shall be closed. All persons to be called as witnesses, other than the appellant, with his/her advisor, if any, and the appellee and his/her advisor, if any, will be excluded from the hearing room. Any person who remains in the room after the hearing has begun may be prohibited from appearing as a witness at the discretion of the Hearing Officer.
- H. Anyone disrupting the hearing may be excluded from the hearing room if, after due warning, he/she engages in conduct which substantially delays or disrupts the hearing, in which case the hearing shall continue and the Hearing Panel shall make a determination based on the evidence presented. If excluded, the person may be readmitted on the assurance of good behavior. Any person who refuses the Hearing Panel's order to leave the hearing room may be subject to appropriate disciplinary action pursuant to Marshall University policy. When a student appellant is excluded for disruptive behavior and does not have a recognized representative, the Hearing Officer will appoint one.
- I. Except as provided in H and M herein, all evidence must be presented in the presence of the student.
- J. The student or other parties involved may petition the Hearing Officer for a subpoena or a request for appropriate written information or documents.
- K. The student will be given the opportunity to testify and present evidence and witnesses on his/her own behalf and to discuss with, and question, those persons against whom the appeal is filed. Written evidence to be considered by the panelists should be received by the Hearing Officer at least five (5) business days prior to the hearing to be distributed to the panelists prior to the hearing. Exceptions to this five (5) day rule are at the discretion of the Hearing Officer, who may disallow long written documents or large numbers of documents from being introduced if the panelists will not have time to consider them fully.
- L. The Hearing Panel may admit as evidence any testimony, written documents, or demonstrative evidence which it believes is relevant to a fair determination of the issues. Formal rules of evidence shall not be applicable in academic appeal hearings.
- M. If the student appellant or the appellee fails to appear at a hearing and fails to make advance explanation for such absence which is satisfactory to the Hearing Panel, or if the student appellant or the appellee leaves before the conclusion of the hearing without permission of the Hearing Panel, the hearing may continue and the Hearing Panel may make a determination on the evidence presented at the hearing, or the Hearing Panel may, at its discretion, dismiss the appeal.
- N. Upon completion of the testimony and presentation of evidence, all persons, except Hearing Panel members will be required to leave the room. The Hearing Panel will then meet in closed session to review the evidence presented. The Hearing Panel shall make its findings based upon a preponderance of evidence. The Hearing Panel shall reach its determination by a majority vote. The results shall be recorded in writing and filed with the Chairperson of the Budget and Academic Policy Committee and the Provost and Senior Vice President of Academic Affairs. If the Hearing Panel's decision includes the imposition of academic sanction, the sanction given and its duration must be specified for the record. A report of a dissenting opinion or opinions may be submitted to the Chairperson of the Budget and Academic Policy Committee and the Provost and Senior Vice President for Academic Affairs by any Hearing Officer.
- O. The findings of the Hearing Panel, and any sanction, shall be announced at the conclusion of the hearing. The student, faculty member, and the appropriate Academic Dean shall be notified in writing of the findings and any sanction at the conclusion of the hearing. A record of the hearing shall be prepared by the Hearing Officer in the form of summary minutes and relevant attachments and will be provided to the student upon request.
- P. No one may tape the proceedings.
- Q. In an appeal related to a final grade the Hearing Officer will complete any necessary change of grade forms and submit that information to the Registrar, the faculty member, and the appropriate Academic Dean.

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- R. Within thirty (30) days following receipt of the Hearing Panel's decision, the student, faculty member or other complainant may file an appeal with the Provost and Senior Vice President for Academic Affairs. A written brief stating grounds for the appeal should be presented by the student, faculty member or other complainant to the Provost and Senior Vice President of Academic Affairs. The scope of review shall be limited to the following:
1. Procedural errors.
  2. Evidence not available at the time of the hearing.
  3. Insufficient evidence to support the findings of the Hearing Panel or of the Academic Appeals Board.
  4. Misinterpretation of University policies and regulations by the Hearing Panel or by the Academic Appeals Board.
  5. A sanction disproportionate to the offense.
  6. Lack of jurisdiction.
- The Provost and Senior Vice President of Academic Affairs may affirm or modify the panel's findings and sanctions, if any, or remand the case to the Academic Appeals Board for further action.
- S. The decision of the Provost and Senior Vice President for Academic Affairs is final. He/she will give written notification of the final decision to the student, the faculty member, the appropriate Academic Dean and as appropriate, the Registrar.

*Approved by the Academic Standards  
and Curricular Review Committee: October 28, 1988*

*Approved by the Budget and Academic Policy Committee,  
October 21, 2004, March 4, 2005, April 17, 2009*

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

## **Academic Suspension**

See "Academic Probation and Suspension."

## **Academic Standing**

**(for more detailed information, see "Academic Rights and Responsibilities of Students")**

Students receive official notification of academic standing in their grade report at the end of the regular semester or summer session.

Academic standing is defined by one of three categories:

1. *Good Standing:*

The student is in good standing when the cumulative Marshall and Overall GPA (includes Marshall grades and any grades earned at other institutions), is at least 2.0. For purposes of participation in extracurricular activities, a student is considered to be in good standing if he or she is eligible to enroll in classes that semester and not under specific restriction as described in the Marshall University Code of Student Rights and Responsibilities, Section C (1-3). Individual activities or organizations may have further requirements for participation such as minimum GPA.

2. *Academic Probation:*

The student is placed on academic probation at the end of any regular semester or summer session when either the cumulative Marshall or Overall GPA (includes Marshall grades and any grades earned at other institutions) is less than 2.0. The student will be notified by mail that a hold has been placed on registration activity. This means the student cannot register or make schedule changes by telephone or on the web. All registration activity must take place in person at the Office of the Registrar. After seeing his/her advisor (if subject to mandatory advising), the student must also get written permission from the associate dean of his/her college to register or make schedule changes. Probation students are also limited in the number of credit hours they can take each semester and may be subject to financial aid, athletic participation, and other restrictions imposed by their colleges.

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/her GPA hours at the end of any given semester, he/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 Master's Degree (AMD)

Marshall University offers an accelerated path through a number of its master's degree programs. We encourage qualified undergraduates to consider doing an Accelerated Master's Degree.

Undergraduates accepted to an Accelerated Master's Degree program can begin taking graduate coursework in their senior year up to a maximum of 12 hours in place of electives. 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 other degree requirements for their Bachelor's degree while they work on their Master's degree. None of the credit hours used for the Bachelor's degree can be counted toward the Master's degree.

Graduate coursework/credit will appear **ONLY** on the graduate transcript, and graduate course grades will be calculated at the graduate level. The undergraduate transcript will indicate that graduate courses were used to fulfill the AMD requirement.

### Advantages of an Accelerated Degree

- complete the Bachelor's degree with up to 12 fewer credit hours, (must meet all other degree requirements for the Bachelor's degree);
- begin work on the master's degree during the senior year;
- complete up to 12 graduate credits at undergraduate tuition rates;
- earn a bachelor's and master's degree in less time.

### Programs Available

Currently, the Accelerated Master's Degree is offered in these master's programs: Criminal Justice, Geography, Political Science, Sociology, and Psychology. Please check with the Graduate College office (Old Main 113) for additional AMD programs.

### Eligibility Requirements for Accelerated Master's Degree program

- 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: AMD 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 master's 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 master's degree program to develop an AMD 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 AMD 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 AMD program is subject to the approval of the Plan of Study by the Dean of the Graduate College.
3. Students accepted into the AMD program should apply for admission to the chosen master's 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 AMD Degree Program

Students must maintain a minimum GPA of 3.0 for all graduate credit toward their master's degree program.

### Withdrawal from the AMD

A student may withdraw at any time from an approved AMD 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.

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## 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 master's 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, as well as the Core Curriculum (on the same basis as a transfer student);
- completing a minimum of 30 additional hours after receipt of a baccalaureate degree;
- 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 in Liberal Arts 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 takes effect. 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. 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 section of this catalog.)

## Class Attendance

It is Marshall University's policy that each instructor evaluates the importance of student class attendance. In the course syllabus, the instructor must provide his/her policy on class attendance, make-up work, and related matters. If a student is absent from class because of a circumstance that is included in the excused absence policy, the absence can be handled by an arrangement between the student and the instructor or, if either party requests, the student can obtain an official excused absence following the procedure described below. The instructor must honor a university excused absence covered by this policy and allow the student an opportunity to catch up/make up work missed. This policy excludes those academic endeavors that require the completion of a certain number of clock hours, as in clinical experiences, practica or internships. For those courses, the maximum number of absences will be determined by the department chair or program supervisor. This policy does not supersede program accreditation requirements.

### Definitions of Excused Absences:

Excused absences fall into five categories:

#### 1. University-sponsored activities:

- a. **Academic activities** including, but not limited to, performing arts, debate and individual events, honors classes, ROTC, and departmental functions.
- b. **Athletics.** Official athletic events sponsored by the Athletic Department.
- c. **Other University activities**, including student government and student organizations. The activity must have a clear educational mission and be closely linked to academic pursuits or to other official University functions.

#### 2. Student Illness or Critical Illness/Death in the Immediate Family

"Immediate Family" is defined as a spouse/life partner, child, parent, legal guardian, sibling, grandparent or grandchild.

- a. **Student Illness or injury:** Absences will be excused only for illnesses or injuries that prohibit students from participating in class.
- b. **Critical Illness of Immediate Family Member:** Absences will be excused if the student documents that he or she had to provide needed care and/or support for a critically ill immediate family member.
- c. **Death of an Immediate Family Member**

#### 3. Short-Term Military Obligation: This is defined as absence as the result of military orders for a short-term period. Note: Students subject to federal activation are covered by a separate policy. Please see the catalog for this policy.

#### 4. Jury Duty or Subpoena for Court Appearance: This applies to absences that are a result of official requests from a court of law.

#### 5. Religious Holidays: This applies to religious holidays.

### Process to Secure an Excused Absence

The student who seeks an excused absence must do so immediately after the event/activity/incident by following these guidelines. **Whenever time permits, such as for University activities scheduled well in advance, the excuse must be obtained and presented to the instructor prior to the absence.**

#### 1. University Sponsored Activities:

- a. **Academic Activities:** These absences are excused by the dean within whose unit the activity is sponsored. The dean must pre-approve any notice that is given or sent to faculty regarding absences of this type.
- b. **Athletics:** These absences are excused by the Provost/Senior Vice President for Academic Affairs who must pre-approve any notice given/sent to faculty.
- c. **Other University activities:** These absences are pre-approved by the Dean of Student Affairs and excused by the Office of Academic Affairs prior to any notice to faculty. The activity and the excused absence must be endorsed in writing by the organization advisor.

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## 2. Student Illness or Critical Illness/Death in the Immediate Family:

- a. Student Illness or Injury: The student must submit official documentation of treatment by a medical practitioner to the Dean of Student Affairs as soon as he/she returns to class. Documentation must specify the inclusive dates to be excused. The dean will notify faculty that the absence(s) meets the criteria to be excused.
- b. Critical Illness of Immediate Family Member: The student must submit official documentation from the family member's health care provider that substantiates the critical nature of the illness and the student's need to provide the care/support. This documentation is to be submitted to the Dean of Student Affairs upon the student's return to class. The dean will notify faculty that the absence(s) meets the criteria to be excused.
- c. Death of an Immediate Family Member: To obtain an excused absence, the student must submit one of the following to the Dean of Student Affairs upon return to classes: an obituary or a funeral program with the student named as a relative; verification on letterhead stationery of the death and the relationship by clergy or funeral home personnel. The dean will notify faculty that the absence meets the criteria to be excused.

3. **Short-Term Military Obligation:** The student who seeks an excused absence for military obligation must present official documentation of his/her orders to duty to the dean of his/her college prior to the absence. The dean will notify faculty that the absences are to be excused.
4. **Jury Duty or Subpoena for Court Appearance:** The student who seeks an excused absence for jury duty or court appearance must submit his/her subpoena or official notification of jury duty to the dean of his/her college prior to the date of the obligation. The dean will notify faculty that the absence is to be excused.
5. **Religious Holidays:** Absences resulting from religious holidays will be excused when the student presents the request in advance of the absence to the Dean of Student Affairs. The dean will indicate his/her approval on the request and forward it to the Office of Academic Affairs for the official excused absence notification to faculty.

*Notice:* Any student who falsifies information or documentation in order to obtain an excused absence has committed a violation of the Code of Student Rights and Responsibilities and will be referred to Judicial Affairs for appropriate sanctions.

## Process to Catch Up/Make Up Missed Work

1. It is the responsibility of the student to request an opportunity to complete missed work.
2. Once the excused absence has been secured, the request to make up work should be made to the instructor at the next available class meeting.
3. Missed activities will be rescheduled or, in the event that rescheduling of an activity is not practical or possible, a fair and equitable alternative way of arriving at the grade for the missed component of the overall grade will be developed by the instructor.
4. Punitive measures must not be taken against students who present an official University excused absence.
5. Students should be aware that excessive absences—whether excused or unexcused—may affect their ability to earn a passing grade.
6. If the faculty member believes that the number of absences accrued under the terms of this policy is such that the student cannot fulfill the learning experience/mastery that a course requires, he/she may recommend that a student withdraw from the class.

Regardless of the nature of the excused absence, the student is responsible for completing all coursework prior to the end of the semester.

## Classification of Students

Classification of students is based on the number of college level credit hours earned as shown following:

CLASSIFICATION	SEMESTER HRS.
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Freshman	0-25
Sophomore	26-57
Junior	58-89
Senior	90 or more

COURSE NUMBERS	LEVEL
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000-099	developmental (or pre-college) courses
100-199	freshman level
200-299	sophomore level
300-499	junior and senior level
500 and above	graduate level



## 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 26 or more college credits must complete one CT course in Core I, all of Core II and the additional university requirements. Core II may be fulfilled through a combination of transfer and Marshall credit hours.

### Core I: 9 hours

- 3 hours: First Year Seminar (100-level)
- 6 hours of discipline-specific courses with an emphasis on critical thinking (CT) and active learning (100- or 200-level). Specific courses that fulfill the CT requirement may be found at [www.marshall.edu/gened](http://www.marshall.edu/gened).

### Core II: 25 hours (100- or 200-level)

Specific courses that fulfill Core II may be found at [www.marshall.edu/gened](http://www.marshall.edu/gened).

- 6 hours: Composition
- 3 hours: Communication
- 3 hours: Math
- 4 hours: Physical or Natural Science
- 3 hours: Social Science
- 3 hours: Humanities
- 3 hours: Fine Arts

### Additional University Requirements

- 6 hours of Writing Intensive credit in any discipline at any level
- 3 hours of Multicultural or International coursework in any discipline at any level
- Capstone project in the major

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 three of following five skill sets: reasoning, representation, cultural judgment, information literacy, and/or metacognition. Similarly, each of these classes utilizes at least two of the following interdisciplinary domains of thinking:

1. Scientific thinking;
2. Informational and technical literacy;
3. Mathematical thinking and abstract thinking;
4. Multicultural and international thinking;
5. Oral, written and visual communication;
6. Aesthetic and artistic thinking;
7. Social, ethical and historical thinking.

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](http://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](http://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.

## 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 with Learning Disabilities may apply for course substitutions or waivers in foreign languages and mathematics under the following policy:

### Conditions:

A student seeking a course substitution or waiver of mathematics (MTH) or foreign language requirements based on a Learning Disability must meet the following conditions:

- Completion of the Course Substitution/Waiver Form. This form requires that the student attach a recent (within five years) diagnosis of a Learning Disability that specifically prohibits the student from completing the course or courses. (The form is available in the Disabled Student Services office, 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.)
- Verification in writing 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 is not an integral part of the student's course of study. If this verification is denied, then the substitution or waiver request shall not go forward.
- Submission of the Course Substitution/Waiver Form to the Course Substitution Committee c/o the Office of Academic Affairs.

### Procedures

The Course Substitution Committee will consist of three individuals involved in the validation of Learning Disabilities on Marshall's campus (one each from the H.E.L.P. Program, Disabled Student Services, and Psychology Clinic faculty), two faculty (one from the Faculty Senate), and one dean (selected by the Provost and Senior Vice President for Academic Affairs).

The Committee, chaired by the dean, will meet up to three times a semester to consider requests that meet the stated conditions. In its deliberations, the Committee will consider the information in the Course Substitution /Waiver Form and accompanying documentation and render a decision in writing to the student and the dean of his/her college within ten working days.

If a course substitution is approved, the student will meet with the chair of the department in which the course is housed to obtain a list of appropriate substitute courses.

A student who is denied a course substitution or waiver by the Course Substitution Committee may appeal in writing within 10 working days 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.**

*Approved by Faculty Senate, January 24, 2003*

*Amended*

## 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.

Whenever a student plans to repeat a course under the *D/F* Repeat Rule, he/she must fill out a form in his/her college office early in the semester in which the course is repeated. 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**

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 two formats: online 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.

*(continued)*

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.

## 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.

## Dropping All Courses (Withdrawal from the University):

### Final Date: Last Day of Class

The last date for complete withdrawal from the university is the last day of class. Withdrawal from the university is defined as dropping all classes for which a student is registered. The student must submit a withdrawal form to the Registrar or mail a request for withdrawal to the Registrar. The effective date of withdrawal is the date that the withdrawal form is submitted to the Registrar. The postmark on mail requests is the official date of withdrawal.

### 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. 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:** Students can drop a night class, an off-campus class, or an e-course by mailing a request to drop to the Registrar. The postmark on the request will be the official date of withdrawal. The instructor's signature is not required. 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:
  - ACC 215
  - BSC 227
  - ENG 101, ENG 102
  - MTH 121, 127, 130
  - SPN 101, SPN 102

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 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;

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- 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.**

## Four-Year Graduation Plans

A sample four-year graduation plan for each major may be viewed by following the link on the Student Resource Center website at [www.marshall.edu/sn-app/academic-planning](http://www.marshall.edu/sn-app/academic-planning). The plan is a guide to timely degree completion. Students should consult with their advisors in order to adapt the plan for their specific circumstances.

## 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 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 (Withdraw)*: 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* (withdraw) 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

Shortly before the middle of the Fall and Spring semester (around the eighth week), all faculty evaluate the freshman students in their classes. Freshman 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

### 1. 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 102 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 keeping informed about and meeting the requirements for graduation.

### 2. 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 should initiate the application for graduation in their college office. Complete information about graduation applications is available in each college office. The university also requires every prospective graduate to pay a diploma fee at the Bursar's office. A receipt for this fee must accompany the completed application for graduation. The deadline for applying for graduation for every semester or term in the academic year is listed in the online Academic Calendar.

### 3. 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;
- last day of final examinations 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.

### 4. Honors Graduation

#### A. *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).

#### B. *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.

### 5. 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" is comprised of 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.

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**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 Withdrawal Policy

### Voluntary Medical Withdrawal

When students withdraw from the university for medical reasons, their request for withdrawal must be supported by certification from the attending physician. In order to be readmitted after this withdrawal, the student must provide a letter and supporting documentation from the attending physician that indicates that the student is able to return. Confidentiality will be maintained at all times except on a need-to-know basis. Requests for medical withdrawals from the university or from an individual class will be handled on a case by case basis through the Associate Dean of Student Affairs, Prichard Hall 155.

### Mandatory Medical Withdrawal

A student will be subject to a mandatory medical withdrawal if the Dean of Student Affairs and/or designee determines that the student is endangering himself or herself or other members of the university community by continuation as a student at Marshall. Through an approved designee, the Dean of Student Affairs reserves the right to request a complete mental or physical evaluation if it is reasonably believed that the student's behavior or health habits warrant it. The student will be referred to the appropriate health professional and a written document of evaluation and recommendations will

be forwarded to the university designee. The university will then determine the student's status. If evaluation supports or indicates a recommendation for a medical withdrawal from the university, the appropriate Student Affairs office will facilitate the withdrawal. Students will be accorded an informal hearing before the Dean of Student Affairs or a designee to obtain an understanding of the evaluation and rationale for the required withdrawal. If the student declines the opportunity for an evaluation, the Registrar will withdraw the student for medical reasons.

Withdrawal for medical reasons will be done without academic penalty to the student. Fees will be refunded in accordance with university policy.

A decision to withdraw may be appealed to the Student Conduct and Welfare Committee or a special subcommittee thereof appointed by the chairperson.

*Adopted by Student Conduct and Welfare Committee, December 7, 1984;  
approved by the President, January 22, 1985.*

## **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 World Wide Web site. 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 ID 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, see the current *Schedule of Courses* or visit [www.marshall.edu/myMU](http://www.marshall.edu/myMU).

## **Placement Examinations**

Students are placed in ENG 101 and college math by meeting a minimum score on the ACT or SAT. ENG 101 requires an ACT of 18 or SAT of 450, or successful completion of ENG 099. College math requires an ACT of 19, an SAT of 460, or successful completion of MTH 098 and/or MTH 099. Students who do not meet the above prerequisites for math may challenge their placement by taking an exam administered by University College in Laidley Hall. To schedule an exam and obtain information to prepare for the exam, please call 304-696-3169. Students may contact the English Department at 304-696-6100 for information on how to schedule an essay exam to be evaluated for placement in the English composition sequence.

## **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.

## **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 *Schedule of Courses* for that semester or term. Schedule changes can be made on the World Wide Web ([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..](http://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

During the first two weeks of semester classes (3 days of summer term), 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 \$8.00 per copy. The Office of the Registrar will process transcript requests within 24 to 48 hours of receipt. Processing time may be extended if current term grades and/or graduate posting are required. Students with outstanding financial, social or other obligations to the university forfeit rights to a transcript until the obligations are resolved. Requests for official transcripts must be sent directly to the Office of the Registrar. Students must sign the request to authorize release of the transcript.

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 Admissions Office 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 Admissions Office. 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 Admissions Office.
- 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.

*(continued)*

- 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.

### **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 degrees: 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**

UNI 100 is made up of two parts: (1) the workshops 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 Credit/No Credit (CR/NC). To earn the one hour of elective credit, attendance at WOW workshops, group session 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” below.)

## **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 Convocation and sessions with the dean, faculty and staff of their academic college along with large group sessions and small group seminars.. An integral part of Week of Welcome (WOW) is Freshman First Class (UNI 100), 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.



# College of Arts and Media

**Mr. Donald Van Horn, Dean**  
**Dr. David Castleberry, Associate Dean**  
**Ms. Janet Dooley, Associate Dean**  
*[www.marshall.edu/cam](http://www.marshall.edu/cam)*  
*[cam@marshall.edu](mailto:cam@marshall.edu)*

**School of Art and Design**  
**Dr Maribea Barnes, Interim Director**  
*[www.marshall.edu/cam/art](http://www.marshall.edu/cam/art)*

**Professor**

Cox, Grassell, Jackson, Massing, Van Horn

**Associate Professor**

Barnes, Harrison, Kaufmann, Larsen

**Assistant Professor**

Akai Cook, Bartolovic, Hagarty, Stark

## **W. Page Pitt School of Journalism and Mass Communications**

**Ms. Janet Dooley, Director**  
*[www.marshall.edu/cam/sojmc](http://www.marshall.edu/cam/sojmc)*

**Professor**

Bailey, Dennison, Morris (Carter G. Woodson Chair), Sias

**Associate Professor**

Dooley, Goodman, Hapney, Hollis, Johnson, Rabe, Swindell

**Assistant Professor**

Ingersoll, York

## **School of Music and Theatre**

**Dr. Richard Kravchak, Director**  
*[www.marshall.edu/cam/music](http://www.marshall.edu/cam/music)*  
*[www.marshall.edu/cam/theatre](http://www.marshall.edu/cam/theatre)*

**Music**

**Professor**

Barnett, A. Bingham, E. Bingham, Castleberry, Dikener, L. Dobbs, W. Dobbs, Kravchak, Lawson, Miller, Saunders, Smith, Stickler, M. Stroehrer, V. Stroehrer, Zanter

**Associate Professor**

Alves, Hall, Parsons, Wray

**Assistant Professor**

Vauth

**Instructor**

Wolfe

## **Theatre**

### **Professor**

Colclough, Jackson, Murphy, Reynolds

### **Associate Professor**

St. Germain

### **Assistant Professor**

Perrone

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 and Theatre; the Marshall Artists Series; the student newspaper, *The Parthenon*; and the student radio station, WMUL-FM.

The College of Arts and Media offices are in Smith Hall 158. The School of Art and Design offices are in Smith Hall 716; the W. Page Pitt School of Journalism and Mass Communications offices are in Communications Building 100; and the School of Music and Theatre offices are in Smith Music Hall 154. Art and design courses are taught in Smith Hall, the Art Warehouse, and Old Main. 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 which 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 which 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.

The College of Arts and Media offers undergraduate programs leading to the Bachelor of Arts (B.A.) degree with majors in advertising, broadcast journalism, radio and television production and management, online journalism, print journalism, public relations, and sports journalism 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, journalism, 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. Graduates in journalism education qualify for certification to teach in grades 9 through Adult. Students who complete the journalism education requirements also are prepared for employment in the news-editorial departments of newspapers.

Graduate Degrees in Arts and Media

Graduate programs leading to the Master of Arts (M.A.) degree in art and music and the Master of Arts degree in Journalism (M.A.J.) may be found in the *Graduate Catalog*.

SPECIAL OPPORTUNITIES FOR ALL STUDENTS

Exhibitions

The Birke Art Gallery on the Marshall University campus and Gallery 842 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 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 during the fall and spring semesters and weekly from June to August. The student radio station, WMUL-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. “Out Loud” 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. The programs of the Marshall Artists Series, including the Baxter Series, Mount Series, Belanger Series and International Film Festival and special events throughout the year, present world-class artists and organizations. Exhibitions in multiple exhibition venues presented by the School of Art and Design are open to all students. The Parthenon, MU Report, WMUL and Out Loud! 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.

ARTS AND MEDIA MAJORS

BACHELOR OF ARTS DEGREE 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 majors in advertising, broadcast journalism, radio and television production and management, online journalism, print journalism, public relations, and sports journalism. Sports journalism majors may emphasize broadcast, print, or public relations. 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:

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**

## **THE BACHELOR OF FINE ARTS DEGREE IN ART, MUSIC, OR THEATRE**

Through the School of Art and Design and the School of Music and 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

### **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, designed to parallel professional degree programs in the fine arts in United States higher education, includes the following components:

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**

## **CORE CURRICULUM**

### **Core I: 9 hours**

- 3 hours: First Year Seminar (100-level)
- 6 hours of discipline-specific courses with an emphasis on critical thinking (CT) and active learning (100- or 200-level). Specific courses that fulfill the CT requirement may be found at [www.marshall.edu/gened](http://www.marshall.edu/gened).

(continued)

## **Core II: 25 hours (100- or 200-level)**

Specific courses that fulfill Core II may be found at [www.marshall.edu/gened](http://www.marshall.edu/gened).

- 6 hours: Composition
- 3 hours: Communication
- 3 hours: Math
- 4 hours: Physical or Natural Science
- 3 hours: Social Science
- 3 hours: Humanities
- 3 hours: Fine Arts

## **Additional University Requirements**

- 6 hours of Writing Intensive credit in any discipline at any level
- 3 hours of Multicultural or International coursework in any discipline at any level
- Capstone project in the major

For more information, consult the general education website: [www.marshall.edu/gened](http://www.marshall.edu/gened).

## **ADDITIONAL DEGREE REQUIREMENTS**

For additional specific degree requirements, see the appropriate major.

## **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).

## **ARTS AND MEDIA MINORS**

Students who wish to complete a minor in an arts or media discipline should consult the appropriate school director.

## SCHOOL OF ART AND DESIGN

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.

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 (49 hours) and a major area of emphasis (24 hours). Majors must also satisfy the following requirements:

1. After completing the required six foundation courses (ART 101 and ART 214, 215, 217, 218, 219) and a minimum of one 300-level studio course, students pursuing the Bachelor of Fine Arts or content-area coursework for the Bachelor of Arts in Education Pre K-Adult 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 and art education students must register for ART 299, Portfolio Review, before completing 27 credit hours in studio art courses (includes ART 214, 215, 217, 218, and 219). Successful completion of ART 298 or 299 is required and is a prerequisite for program advancement. Students who do not receive a passing grade of C in the Portfolio 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 or Bachelor of Arts in Education degree programs 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 in may be taken Credit/Non-Credit unless the course is so specified.
5. 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 Project – BFA; B.A. students must register for ART 499, Senior Capstone Project – BA.

### Major and Area of Emphasis Requirements in Art

Art Core.....37 credit hours

ART 101, 201, 202, 214, 215, 217, 218, 219, 298, 389 or 464, 390, 498; art history elective.

Students must also choose four courses from the following:

ART 301, 303, 305, 307, 308, 313, 315, 343, 353, 418, or 444 .....12 credit hours

Areas of Emphasis in Visual Arts .....24 credit hours

Students will complete 24 credit hours in a studio area of emphasis. Specific courses are listed below.

Advanced Studio Sequence courses, ART 475, 476, 478, and 479, 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.

#### *Ceramics*

ART 305, 343, 344, 345, 446, 447, 448, 449 or 451

#### *Fibers*

ART 303, 308, 313, 419, 420, 421, 422 or 450

#### *Graphic Design*

ART 312, 314, 316, 317, 440, 489, 490

#### *Painting*

ART 350, 351, 353, 354, 355, 455, 456 or 458

#### *Printmaking*

ART 301, 302, 320, 444, 463 or 465

#### *Photography*

ART 315, 324, 325, 423, 426, 427 or 453

#### *Sculpture*

ART 307, 309, 331, 332, 333, 369, 417 or 443

## MINORS IN ART AND DESIGN

A minor in the School of Art and Design consists of a minimum of 18 credit hours. A minor may be completed either in art history or in studio art.

A minor in art history requires ART 201, 202 and four additional courses in art history at an advanced level.

A minor in studio art requires two courses selected from studio art foundation classes, (ART 214, 215, 217, 218 or 219), and four courses in one of the art studio areas of emphasis (ceramics, fibers, graphic design, painting, photography, printmaking, or sculpture).

All coursework must be selected in consultation with an art faculty member responsible for that studio area of emphasis. That faculty member serves as an advisor, and the School of Art and Design director verifies coursework and approves minors.

## SCHOOL OF JOURNALISM AND MASS COMMUNICATIONS

The W. Page Pitt School of Journalism and Mass Communications' programs and curriculum are based in the conviction that future journalists and mass communicators are best prepared for life and for their careers when they are broadly educated in the liberal arts. The importance of preparing them for the demands of the workplace 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 seven majors: advertising, broadcast journalism, radio and television production and management, online journalism, print journalism, public relations, and sports journalism. 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 a minimum of 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. A minimum Grade Point Average of 2.25 in required journalism and mass communications courses overall is required for graduation.
3. 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 course.
4. 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.
5. The upper-division writing requirement is met by completing the major writing assignment in JMC 440 with a grade of at least a *C*.
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

Due to standards of the school's accrediting body, students transferring into the school 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, Fundamentals of Public Relations.

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.

## Major Requirements in Journalism and Mass Communications

<b>JMC Cognizance area.....</b>	<b>24 hours</b>
Diversity.....	15 hours
Modern Language .....	6 hours
Successful completion of any combination of Arabic, French, German, Japanese, Latin, Spanish or Greek.	
Cultural.....	3 hours
Select ANT 201, SOC 200 or GEO 100	
ANT 201, SOC 200 or GEO 100 completed as part of CORE I, CORE II or electives meets this requirement.	
Multicultural.....	3 hours
Any 3 hours of multicultural credit completed as part of CORE I, CORE II or electives meet this requirement.	
International.....	3 hours
Any 3 hours of international credit completed as part of CORE I, CORE II or electives EXCEPT JMC 436 meet this requirement. JMC 436 credit may not be applied to the cognizance area.	
Historical (any HST course) .....	3 hours
Literature.....	6 hours
Any course with a "literature" attribute. Writing courses do not satisfy the literature requirement. Literature taken as part of Core II Humanities may meet 3 of the 6 hours of required literature.	

## Journalism and Mass Communications Core.....21 hours

JMC 101, Media Literacy.....	3 hours
JMC 102, Information Gathering & Research .....	3 hours
JMC 402, Law of Mass Communications.....	3 hours
JMC 440, Mass Communications Ethics .....	3 hours
JMC 490, Internship or JMC 470 Practicum.....	3 hours
JMC electives: any additional 300- or 400-level JMC courses .....	6 hours

All journalism and mass communications majors must pass a language proficiency exam with a score of 77% or better before admission to any JMC courses at the 300/400 level. The language proficiency requirement may also be met by completing JMC 100 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.

## Courses Required for the JMC majors .....41 hours

### *Advertising Major*

JMC 221, 241, 245, 383, 385, 408, 415, and 425 (Capstone) and any additional 300- or 400- level elective JMC course.....	27 hours
Required Non-JMC courses:	
Communication Studies 308 .....	3 hours
Marketing 340 .....	3 hours
Non-JMC electives.....	8 hours

### *Broadcast Journalism Major*

JMC 201, 301, 340, 360, 414, 451, 452, and 461 and any additional 300- or 400- level elective JMC course.....	27 hours
Non-JMC electives.....	14 hours

(continued)

### *Online Journalism Major*

JMC 201, 241, 301, 360, 461, 462, 465 (capstone); one of the following: JMC 400, JMC 410, JMC 451, or JMC 475; and any additional 300- or 400- level elective JMC course ..... 27 hours  
Non-JMC electives ..... 14 hours

### *Print Journalism Major*

JMC 201, 241, 301, 302, 305, 360, 414, 430 and any additional 300- or 400- level elective JMC course ..... 27 hours  
Non JMC electives ..... 14 hours

### *Public Relations Major*

JMC 201, 241, 301, 330, 360, 437, 438, 439 (Capstone) and any additional 300- or 400- level elective JMC course ..... 27 hours  
Required Non-JMC courses:  
    Communication Studies 308 ..... 3 hours  
    Marketing 340 ..... 3 hours  
Non-JMC electives ..... 8 hours

### *Radio/Television Production and Management Major*

JMC 201 or 221, 231, 272-3 (one hour), 332 or 432, 390, 420, 436, 450 or 455, and 461 or 462 and any additional 2 hrs. of 300- or 400- level elective JMC course ..... 27 hours  
Required Non JMC courses:  
    Accounting 215 ..... 3 hours  
    Marketing 231 ..... 3 hours  
Non-JMC electives ..... 8 hours

### *Sports Journalism Major*

JMC 201, JMC 303, JMC 360 and either JMC 461 or JMC 462 ..... 12 hours  
Non-JMC electives ..... 14 hours  
Sports Print emphasis: ..... 15 hours  
    JMC 241, JMC 302 and JMC 305;  
    3-hours from JMC 330, JMC 410, JMC 430, JMC 445 or JMC 455;  
    3-hour capstone from JMC 404, JMC 414, JMC 445 or JMC 455.  
Sports Broadcast emphasis: ..... 15 hours  
    JMC 231 and, JMC 321  
    6 hours from JMC 272, JMC 273, JMC 331, JMC 332, JMC 372 or JMC 373  
    3-hour capstone from JMC 404, JMC 414, JMC 445 or JMC 455.  
Sports Public Relations emphasis: ..... 15 hours  
    JMC 241, JMC 330, JMC 437, JMC 438, and JMC 439

## **REGENTS B.A. STUDENTS**

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.



## MINORS IN JOURNALISM AND MASS COMMUNICATIONS

Non-Journalism and Mass Communications majors may select from one of three, 15-hour minors within the school as follows:

### *Advertising*

JMC 221, Advertising and Continuity Writing  
JMC 245, Fundamentals of Advertising  
JMC 415, Advertising Strategy and Execution  
and two of the following:  
JMC 241, Graphics of Communication  
JMC 383, Advertising Layout and Design  
JMC 385, Advertising Media Planning  
JMC 408, Advertising Research  
JMC 425, Advertising Campaigns  
JMC 445, Advertising in Modern Society

### *Journalism*

JMC 101, Media Literacy  
JMC 201, News Writing I  
Six hours from:  
JMC 340, Basic Broadcast News  
JMC 301, News Reporting II  
JMC 305, Copy Editing  
JMC 430, Magazine Article Writing  
JMC 461, Web Strategies, and  
JMC 414, Reporting Public Affairs  
and one three hour 300/400 level JMC elective.

### *Public Relations*

JMC 201, News Writing I  
JMC 301, News Reporting II  
JMC 330, Fundamentals of Public Relations  
JMC 437, Public Relations Writing  
JMC 438, Public Relations Case Studies

## SCHOOL OF MUSIC AND THEATRE

### Music

The mission of the Marshall University music program is to prepare students for careers in performance, education, and other music-related fields who will make a positive impact on their artistic disciplines and on schools and communities. Additionally, the program will provide enriching experiences for those who will continue their musical activities as an avocation; and to cultivate within the region an increased awareness of the educational, cultural, and aesthetic aspects of music. In fulfilling its mission, the program is committed to the following goals:

1. To provide a nurturing environment for musical, academic and personal growth;
2. To educate students to think critically, work creatively, communicate effectively, and become technologically literate;
3. To function as a visible, responsible and responsive student-centered program dedicated to academic excellence;
4. To maintain a faculty of musicians/teachers who, through dedication to excellence, sound pedagogy, and effective communication skills, present models that inspire students to achieve their full potential;
5. To meet educational, research, and service needs of the region through collaboration with academic and technical institutions, businesses, government agencies, and cultural organizations;
6. To contribute to the cultural life of the university and community by providing concerts, recitals, festivals, joint musical ventures and other services;
7. To provide leadership within the university and the region in all matters pertaining to music.

The music program is a fully accredited institutional member of the National Association of Schools of Music. Undergraduate students may pursue the 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 and Theatre 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 and Theatre for admission and audition requirements.

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/cofa/music](http://www.marshall.edu/cofa/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/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.

## Major and Area of Emphasis Requirements in Music

### Music Core..... 18

Music 100, 111, 112, 113, 114, 211, 213, 218, 376, 401

Students must complete eight (8) semesters of non-credit applied music laboratory (MUS 100).

Senior Recital.

Piano Proficiency Examination.

### Area of Emphasis (select one).....55

#### **Jazz Studies:** *(In addition to the Music Core)*

Music 217, 231, 232, 250, 307, 323, 331, 332, 360, 361, 411, 499

Eight (8) credit hours of 100-level applied study on the principal instrument.

Eight (8) credit hours of 300-level applied study on the principal instrument.

Four (4) credit hours of 200-level jazz ensemble and four (4) credit hours of 400-level jazz ensemble relating directly to the principal applied area. These must be earned in eight different semesters. Full-time music students are required to participate in ensembles in each semester of residence.

In addition to the formal coursework in this area of emphasis, both a junior recital (MUS 376, minimum of 30 minutes of music) and a senior recital (minimum of 50 minutes of music) are required for graduation.

#### **Multidisciplinary Studies:** *(In addition to the Music Core)*

Music 212, 214, 290, 301, 315 or 415, 360, 361, 499

or

Music 217, 250, 360, 361, 411, 499

Four (4) credit hours of 200-level principal ensemble and three (3) credit hours of 400-level principal ensemble relating directly to the principal applied area. These must be earned in eight different semesters. Full-time music students are required to participate in ensembles in each semester of residence. Upon approval of the applied teacher, guitar and keyboard majors may substitute up to two semesters of an appropriate chamber ensemble or accompanying for two semesters of a principal ensemble.

Eight (8) credit hours of individual applied study on the principal instrument at the 100 level.

Four (4) credit hours of individual applied study on the principal instrument at the 300 level.

Sixteen (16)\* hours outside of music to be determined based on the student's career plans and in consultation with the academic advisor.

***Performance: (In addition to the Music Core)***

Music 212, 214, 290, 301, 304, 315 or 415, 360, 361, 499

Eight (8) credit hours of 100-level applied study on the principal instrument.

Eight (8) credit hours of 300-level applied study on the principal instrument.

Four (4) credit hours of 200-level principal ensemble and four (4) credit hours of 400-level principal ensemble relating directly to the principal applied area. These must be earned in eight different semesters. Full-time music students are required to participate in ensembles in each semester of residence. In addition, string majors must complete four semesters of chamber ensemble. Upon approval of the applied teacher, guitar and keyboard majors may substitute up to two semesters of an appropriate chamber ensemble or accompanying for two semesters of a principal ensemble.

One (1) credit of improvisation class.

Six (6) credit hours of directed music electives relating to the student's principal performance area. Within these directed electives, students are expected to study specialized repertoire, techniques and performance problems in their principal applied area. Voice majors will be required to complete MUS 222 and 224 and either MUS 428 or 429 as part of their directed electives. Piano majors will be required to complete MUS 440 and MUS 441 as part of the directed electives. Electives should be chosen in consultation with the student's program advisor.

In addition to the formal coursework in this area of emphasis, both a junior recital (MUS 376, minimum of 30 minutes of music) and a senior recital (minimum of 50 minutes of music) are required for graduation.

***Theory and Composition: (In addition to the Music Core)***

Music 212, 214, 240, 290, 301, 304, 315 or 415, 317, 320 or 322, 360, 361, 432, 498

Six (6) credit hours of applied study on the principal instrument (100 level).

One (1) credit of improvisation class.

Four (4) credit hours of 200-level principal ensemble and four (4) credit hours of 400-level principal ensemble relating directly to the principal applied area. These must be earned in eight different semesters. Full-time music students are required to participate in ensembles in each semester of residence. Upon approval of the applied teacher, guitar and keyboard majors may substitute up to two semesters of an appropriate chamber ensemble or accompanying for two semesters of a principal ensemble.

Eight (8) credit hours of individual applied composition study at the 300 or 400 level.

Two (2) additional credit hours of 300-level applied study on the principal instrument.

The junior recital (MUS 376) must be performed on the principal instrument.

In addition to the formal coursework in this area of emphasis, a senior recital (minimum of 30 minutes of original music) is required for graduation.

## **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.

*(continued)*

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/composition area of emphasis must complete 8 credit hours of study on the principal instrument–6 hours of lower division (100 level) and 2 hours of upper division (300 level). These are earned over 5 different semesters. In addition, students must complete 8 credit hours of applied composition study at the 300 or 400 level. These should be earned in four different semesters.
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 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.
6. 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.
7. Performance on the principal instrument is required at least once each semester on weekly daytime recitals held for this purpose (MUS 100). 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. During the senior recital semester, B.F.A. students co-register for applied study on the principal instrument and the capstone course (MUS 498 or 499).

### **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 either through passing the piano proficiency exam or upon successful completion of MUS 179D.

### **Theory Placement**

A placement test will be given on the first day of theory class in the fall semester. All students must demonstrate the ability to read bass and treble clef, to construct a major scale, and to identify key signatures. 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 MUS 498 or 499 will be required to complete a written and oral comprehensive examination.

## Jazz Studies, Multidisciplinary, or Performance Capstone (MUS 499)

Jazz Studies or Performance majors must complete a performance capstone approved by the music faculty as a requirement for graduation. Students may not register for the capstone experience prior to registering for the fourth semester of 300-level study on the principal applied instrument.

Multidisciplinary students will design a capstone experience in consultation with the chair of their capstone committee.

## Theory and Composition Capstone (MUS 498)

Theory and Composition majors must complete a capstone approved by the music faculty as a requirement for graduation. Students may not register for the capstone experience prior to registering for the fourth semester of applied composition study at the 300 or 400 level.

## 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 three 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, Jazz Studies, and Theory/Composition Majors:** All full-time performance, jazz studies, and theory/composition 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.

## MINOR IN MUSIC

Minor in Music.....	19
<i>Core</i>	15
Music 111, 113, 142 (7 cr.)	
Four (4) semesters of 100-level applied study on the principal instrument (4 cr)	
Four (4) semesters of ensemble relating directly to the principal applied area (4 cr)	
<i>Electives</i>	4
(Electives to be chosen in consultation with the student's music advisor.)	



## Theatre

Students desiring to enroll as majors in the Bachelor of Fine Arts degree with a theatre major should contact the Director of the School of Music and Theatre prior to registration for course requirements and sequences. At the initial meeting with the director, the student's area of emphasis will be selected and the student may plan the scheduling of his or her classes to insure timely completion of all program and collegiate requirements.

Candidates for the Bachelor of Fine Arts degree, theatre major, must successfully 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 core curriculum of forty-six (46) hours and the student's choice of areas of emphasis with twenty-seven (27) hours. Majors must also satisfy the following program requirements:

1. 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.
2. Theatre majors who have successfully completed THE 101, 150, 201, 240, and 250, AND a minimum of 9 credit hours from 220, 221, 222, 260, AND a minimum of 30 credit hours overall, are required to enroll in THE 295, Sophomore Review. This course consists of a written exam on general theatre knowledge, and either a portfolio review (production) or an audition (performance). Successful completion of Sophomore Review is required for enrollment in 400-level theatre courses. 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 material to be covered on the exam, portfolio review, audition, and the format of the review can be obtained from the student's faculty advisor.
3. Theatre majors must enroll in Theatre Internship (THE 490) for a total of four (4) credit hours and successfully complete an approved internship prior to initiating the senior capstone (THE 499) experience. Internships are approved by the faculty advisor and the school director. Typically, internships take place during the summer months and demonstrate the individual's ability to participate on a regional or national level. Successful completion of an internship requires the student to prepare a resume and audition or portfolio, and through that preparation acquire a position with a theatre-related, professional organization. Summer employment with professional organizations (out-of-state or in-state organizations) holding auditions or interviews at S.E.T.C. or similar regional or national conventions are considered appropriate internships. Substantial skills workshops and studies abroad in theatre (where the application involves competition) may also be considered appropriate internships. Students must make arrangements with the producing organization to provide an evaluation of their work.
4. Students must have completed a minimum of ninety (90) hours of coursework before enrolling in the senior capstone (THE 499) experience. Students who are juniors must discuss the capstone experience with their advisors prior to the second semester of their junior year.
5. Forty- (40) credit hours must be earned in courses numbered 300-499.
6. No course in the major requirements for graduation may be taken Credit/Non-Credit unless the course is so specified.

In addition to formal coursework, the theatre program provides laboratory experience through productions during the academic year and the summer.

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.

### Major and Area of Emphasis Requirements in Theatre

Theatre Core ..... 46

Theatre 101, 150, 201, 240, 250, 295, 440, 441, 490, 499  
and nine (9) credit hours from 220, 221, 222, or 260  
and six (6) hours of theatre practicum (THE 270 and THE 370).

Areas of Emphasis in Theatre..... 27

Students are required to select one of these areas of emphasis  
and to complete 27 credit hours. Specific courses to be included  
in each area of emphasis are as follows:

#### *Performance*

Theatre 230, 320, 322, 423, 437, and twelve (12) hours of approved theatre electives.

#### *Production*

Theatre 261, 354, 362, 450, three (3) credit hours from 355 or 360,  
and twelve (12) hours of approved theatre electives.



## MINORS IN DANCE AND THEATRE

### Minor Requirements in Dance

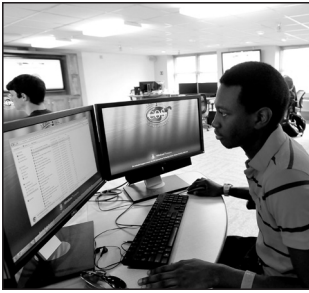
Students intending to minor in dance should contact the Director of the School of Music and Theatre. The director serves as the dance advisor for students with a minor in dance.

DAN 230, Ballet Technique.....	2 hrs.
DAN 270 or THE 270, Dance Practicum .....	2 hrs.
DAN 316, Modern Jazz Dance .....	2 hrs.
DAN 320, Modern Dance Technique .....	2 hrs.
THE 240, Introduction to Stage Lighting .....	4 hrs.
Choice of six (6) hours from DAN 205, DAN 210, DAN 280, or repeat from the Dance courses above.....	6 hrs.
<b>Total for Dance Minor .....</b>	<b>18 hrs.</b>

### Minor Requirements in Theatre

Students intending to minor in theatre should contact the Director of the School of Music and Theatre. The director serves as the theatre advisor for students with a minor in theatre.

THE 101, THE 111 .....	6 hrs.
Choice of one: THE 150, THE 240, or THE 250.....	4 hrs.
Choice of one: THE 201, THE 440, or THE 441.....	3 hrs.
Elective (choose one): THE 150, THE 240, THE 250, THE 220 and THE/DAN 270, or THE 221 and THE/DAN 270.....	4 hrs.
<b>Total for Theatre Minor .....</b>	<b>17 hrs.</b>



# College of Business

**Dr. Haiyang Chen, Dean**  
**Dr. Deanna Mader, Senior Associate Dean**  
**Dr. Marjorie McInerney, Interim Associate Dean**  
*www.marshall.edu/cob*

## **Division of Accountancy and Legal Environment** **Dr. Jeffrey Archambault, Division Head**

### **Professors**

J. Archambault, Kent, Maheshwari

### **Associate Professors**

M. Archambault, Conrad, Keener, Lankton, Price, Stivason

### **Instructor**

Lucas, Simpson, Thompson-Abbott

## **Division of Finance and Economics** **Dr. Harlan Smith, Division Head**

### **Professors**

J. Agesa, R. Agesa, Brookshire, Brozik, Newsome, L. Shao, Smith

### **Associate Professors**

Wilkins, Zhang

### **Assistant Professors**

Chen, Bista, Karim, McCutcheon, Tomasik

### **Instructor**

Denning

## **Division of Management, Marketing, and Management Information Systems** **Dr. Fred Mader, Interim Division Head**

### **Professors**

Braun, Emmett, D. Mader, F. Mader, McInerney, D. Shao, Tate

### **Associate Professors**

Alexander, Ha, Lee, McClure, Tomblin, Weible

### **Assistant Professors**

Coustasse, Gurung, Lau, Muslin, Reusch, Sollosy, Subedi

**Instructors**

Halleck, McVey, Spencer, Spudich

**Division of Military Science**  
**LTC Cloyd Lilley, Department Head****Professor**

LTC Lilley

**Assistant Professors**

MAJ Ramey

**Military Instructor**

SFC Johnson, MSG Heavener

**Recruiting Officer**

CPT Epperly

**COLLEGE OF BUSINESS VISION STATEMENT**

The vision of the College of Business is to ensure that our students are successful in business careers.

**COLLEGE OF BUSINESS MISSION STATEMENT**

The mission of the COB is to be a leading state institution for the education of business students, and a contributor to the region's economic development. The college is committed to an overall balance among teaching, scholarly activity, and service. The COB is dedicated to graduating individuals who possess the communication, critical thinking, and problem-solving skills necessary to meet the Tri-State area's needs for the demands of the global marketplace.

**GOALS**

The goals of the College of Business, which flow from the vision and mission statements, can be divided into two parts: those which pertain to teaching excellence and those which relate to outreach and economic development.

**GOALS FOR ACHIEVING TEACHING EXCELLENCE****I. INSTRUCTION**

1. Create teaching excellence in all courses and programs by enriching student skills in communication, critical thinking and problem solving to ensure all students receive the best possible instruction.
2. Develop intellectual activities related to instructional innovation and pedagogy to provide continuous improvement in student instruction.
3. Utilize a comprehensive system of assessment and evaluation including students, faculty, graduating seniors, alumni and employers to evaluate how effectively the COB prepares students for the world of work.
4. Obtain the necessary technology for faculty and students which will allow both to be current and to provide for effective delivery of instruction.
5. Develop faculty skills for the use of technology in teaching and conducting research.
6. Provide an environment for faculty growth as instructors and mentors.

**II. STUDENTS**

1. Offer expanded opportunities for international study.
2. Maintain a diverse student body while promoting a greater understanding of cultural diversity to prepare students for the changing workplace.
3. Provide expanded opportunities for nontraditional students and employers by creating opportunities for students who could benefit from flexible degree and non-degree programs.
4. Expand the geographic range of COB courses and programs to use technology to reach students who cannot come to campus.

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5. Encourage more international students to enroll in Marshall by expanding 2+2 and exchange programs with foreign schools.
6. Recruit more aggressively students in West Virginia and surrounding states to maintain the student base necessary to ensure viability of COB programs.
7. Increase academic standing of COB students through developmental programs and advising.

### III. FACULTY

1. Achieve ninety percent of faculty who are academically and/or professionally qualified to guarantee that the highest quality instruction is received by all students.
2. Link rewards to achievement of University and College goals to facilitate excellence in student instruction.
3. Maintain a diverse faculty and encourage international exchange of faculty to better equip students with an understanding of the market place.
4. Achieve a system of shared governance which encourages academic freedom and participation.
5. Encourage faculty members to apply their skills and knowledge by participating in activities that benefit individuals and groups outside the immediate college community. These activities should help enrich the classroom experience for both students and faculty.
6. Create a balanced and expanding portfolio of intellectual contributions including basic and applied research in addition to instructional innovations with an increased emphasis on publications in nationally circulated, refereed journals.

### GOALS FOR OUTREACH AND ECONOMIC DEVELOPMENT

1. Conduct applied research and programs which are a direct benefit to the economy of the region.
2. Market and publicize the College more aggressively to its stakeholders.
3. Seek continued stakeholder input regarding curriculum, programs, and policies
4. Secure additional outside funding from foundations, alumni, government and friends to provide increased flexibility, innovation and rewards
5. Develop innovative entrepreneurship programs to serve the region.

## DEGREE PROGRAMS

The College of Business offers the following degree programs:

1. Bachelor of Business Administration degree with majors in:
  - a. Accounting
  - b. Economics
    - International Economics
  - c. Finance
  - d. International Business
  - e. Management
    - Health Care Management
  - f. Energy Management
  - g. Management Information Systems
  - h. Marketing
  - i. Risk Management and Insurance
2. Master of Business Administration: a complete description of the M.B.A. program is given in the *Graduate Catalog*.
3. Master of Science in Accountancy: a complete description of this program is given in the *Graduate Catalog*.
4. Master of Science in Human Resource Management: a complete description of this program is given in the *Graduate Catalog*.
5. Master of Science in Health Care Administration: a complete description of this program is given in the *Graduate Catalog*.

## ADMISSION

Regular admission to the university constitutes admission to the College 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 College of Business.

For students transferring into Marshall University, the College 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 application to fulfill upper division business requirements and electives, accepted transfer credits must have been earned at the upper division levels; otherwise, mastery of the corresponding upper division coursework at Marshall must be validated in the College of Business division offering the coursework.

## **TRANSFER OF CREDITS FROM ANOTHER INSTITUTION**

When students transfer courses from another institution to Marshall University, the Admissions Office produces a Transfer Equivalency Worksheet. Advisors in the dean's office work closely with transfer students to determine how courses taken at other institutions will count toward their B.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. 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, 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 College 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 (1) take FIN 343 or FIN 370 and receive a grade of C or better; (2) pass a validation exam given by the Division of Finance and Economics; or (3) pass FIN 323 at Marshall for upper division credit.

MGT 320, Principles of Management - Students can (1) take MGT 422 and receive a grade of C or better; (2) pass a validation exam given by the Division of Management, Marketing, and Management Information Systems; or (3) pass MGT 320 at Marshall for upper division credit.

MKT 340, Principles of Marketing - Students can (1) take MKT 371 and receive a grade of C or better; (2) pass a validation exam given by the Division of Management, Marketing, and Management Information Systems; or (3) pass MKT 340 at Marshall for upper division credit.

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. 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. degree requirement.

## **PROBATION AND ACADEMIC DISMISSAL**

The College 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 COB regardless of their catalog year.

## **ADVISING**

All students are assigned to the College of Business Academic Advising Center for advising. Each semester, freshmen must participate in group advising sessions and meet with their advisors prior to registering for classes. Sophomores who need assistance are encouraged to meet with their academic advisors. During the junior year, students will be contacted to meet with an academic advisor to review their Junior/Senior Evaluations. A junior evaluation hold will be placed on the student's account until he or she meets with the advisor and reviews the evaluation. Only freshmen, probation students, and first-semester transfer students are required to meet with an advisor prior to registration. Students have the responsibility of checking prerequisites prior to enrollment. If a student has not met all prerequisites of a course prior to the first day of class, the dean's office has the right to withdraw the student from that course. Students are allowed to change majors at any time.

## 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 Economics 250 before you can take Economics 253. 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 COB 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.

It is the responsibility of the student to complete all prerequisites before beginning the next successive course. It is also the responsibility of the student to be familiar with and follow the prerequisite requirement for the B.B.A. Accounting degree. **STUDENTS WILL BE ADMINISTRATIVELY WITHDRAWN FROM COURSES IF THE PREREQUISITES HAVE NOT BEEN FULFILLED.** Make sure you have the proper prerequisites. Avoid the embarrassment and difficult situation that may arise if you are dropped from a course for failure to meet prerequisites. Enrollment for Management 460 requires senior standing and completion of multiple core business courses. You will not be allowed to take MGT 460 and FIN 323 the same semester. Plan accordingly.

## 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 6 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. 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 dean's office about how internship credit will count toward their degree.

Students who register for a Management, Management Information Systems, 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 or Marketing 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 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.
- Transfer students meeting the above criteria are eligible to participate after one semester of coursework at the College of Business.

## INDEPENDENT STUDY

The College 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 College of Business courses. Each student can obtain a maximum of eight (8) hours of Independent Study credit within the COB, 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. COB students with senior standing who have 2.5 or higher in overall, Marshall, and major GPA's.
2. COB students with junior standing who have 3.0 or higher in overall, Marshall, and major GPA's.
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 Division Head. The Division Head'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 Office of the Dean.



## GRADUATION REQUIREMENTS

The following general requirements must be met by all students seeking bachelor's degrees through the College 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 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.

## CORE CURRICULUM REQUIREMENTS

*Hours Required*

### CORE I:

**First Year Seminar: FYS 100**.....3 hours  
**must** be taken during the freshman year.

Students who transfer to Marshall University as sophomores  
 [26 or more credit hours] are exempt from taking FYS 100.

**Critical Thinking (CT)** – must choose two of the following courses: ..... 6 hours

Students who transfer to Marshall University as sophomores [26 or more credit hours]  
 are exempt from taking one CT course. Students may wish to select a Critical Thinking  
 course that will double-count as a Humanities. For a complete listing of courses that will  
 meet the Critical Thinking requirement, please go to  
[www.marshall.edu/gened/critical-thinking-core-i-courses](http://www.marshall.edu/gened/critical-thinking-core-i-courses).

### CORE II:

**Composition: ENG 101 and 201 (or 201H)**.....6 hours

Students with an English ACT score below 18 must complete ENG 099 before proceeding to ENG 101. ENG 099 is  
 a three-credit hour, credit/no credit course and the hours will not count toward the student's 120 hour graduation  
 requirement. Students who take this course will be required to complete 123 hours to graduate.

Students with an ACT score of 28-33 are encouraged to take ENG 201H. 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 and 201. If a student receives a  
 grade of "D", the student will only receive three hours of credit toward ENG 201 and must either repeat ENG 201H or go  
 back and take ENG 101. **Students MUST receive a grade of "C" or better in ENG 201.** Students who receive a grade of  
 "D" in ENG 201 must repeat the course for a higher grade.

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**Communication Studies: CMM 207** .....3 hours

Students with an ACT score of 26 or higher are encouraged to take CMM 104H, which will substitute for CMM 207.  
Students who transfer from another college on campus and have already completed CMM 103 can substitute that for CMM 207.

**Fine Arts:** select one of the following:.....3 hours

For a complete listing of courses that will meet the Fine Arts requirement, please go to *www.marshall.edu/gened/core-ii-courses*.

**Humanities:** .....3 hours

For a complete listing of courses that will meet the Humanities requirement, please go to *www.marshall.edu/gened/core-ii-courses*.

**Math:** MTH 127 or 130 ..... 3-5 hours

Students must complete an algebra course by either taking MTH 127 or MTH 130, depending on your math ACT score. Students with a **math ACT score of 21 or higher** can take MTH 130 for 3 credit hours. Students with a **math ACT score of 19 or 20** must take MTH 127 for 5 credit hours.

MTH 099 is required for students who have a **math ACT score of 17 or 18**. This course counts for three-credit hours during the semester, but the hours do not count toward the 121 hour graduation requirement. Students who take this course will be required to complete 124 hours in order to graduate. Students who complete MTH 099 then proceed into MTH 127.

MTH 098 is required for students who have a **math ACT score of 16** or less. This course counts for three-credit hours during the semester, but the hours do not count toward the 120-hour graduation requirement. Students who take this course will then proceed into MTH 099 and will be required to complete 127 hours in order to graduate.

Students who plan to pursue a master's degree in Business Administration should plan to take a calculus course, as it is a requirement for admission into most M.B.A. programs.

**Physical/Natural Science:** .....4 hours

For a complete listing of courses that will meet the Physical/Natural Science requirement, please go to *www.marshall.edu/gened/core-ii-courses*.

**PSY 201 (Social Science)** .....3 hours

Students who complete PSY 201 at Marshall will also fulfill one Critical Thinking (CT) course.

## ADDITIONAL COLLEGE REQUIREMENTS:

Hours Required

**MIS 200**.....3 hours

**ENG 204** .....3 hours

**Communication Studies Elective** .....3 hours

Select one: CMM 302, 308, 315, 319, 322

**International Business Elective** .....3 hours

Select one:

ECN 340, 408, 420, 460

FIN 440

MGT 445

MKT 371

## ADDITIONAL UNIVERSITY REQUIREMENTS:

### Writing Intensive:

Students must select 6 hours of courses designated as Writing Intensive. COB students are able to double-count **ENG 204** (Writing in the Workplace) as one of their Writing Intensive courses. The business capstone course, **MGT 460** (Strategic Management) will also double-count as a Writing Intensive course. If MGT 460 is taken at another institution, the student will need to select another Writing Intensive class at Marshall University or provide documentation that he or she has met this graduation requirement elsewhere.

### Multicultural/International

This requirement will be met when the student completes the International COB Elective (see “Additional College Requirements” section above).

## GENERAL BUSINESS REQUIREMENTS:

All business majors are required to take several core business courses. They are as follows:

ACC 215, 216.....	6 hours
ECN 250, 253.....	6 hours
FIN 323 .....	3 hours
LE 207 .....	3 hours
MGT 218 .....	3 hours
MGT 320 .....	3 hours
MIS 290 (ACC majors take ACC 341).....	3 hours
MKT 340 .....	3 hours
MGT 460 .....	3 hours

In addition to the Core Curriculum requirements, students are required to complete courses for their majors. Please see section on “Major Requirements.”

### Free Electives

Students must complete at least 120 hours to graduate with a B.B.A. The number of free elective hours you will need to complete depends on your major, the number of hours you take to fulfill your math requirement (3 or 5 hours), and if you double-count any general education requirements.

Each major in the COB varies as far as the number of required courses. To determine the number of free electives you will need to reach 120 hours to graduate do the following: 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 (098, 099, etc.) do not count toward completion of free electives or the 120-hour graduation requirement. If you earn a “C” or better in a course and repeat it, that is considered a Repeat Passing Grade. If you earn a “D” in a course that 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 double-counts as Critical Thinking (CT) and Humanities. When completed at Marshall PSY 201 double-counts as a Social Science and a Critical Thinking (CT) course. Because you must have a minimum of 120 credit hours to receive a degree, double-counting will increase the number of free electives you will need. Therefore, if you take a class that meets two graduation requirements, you will then take additional free elective hours in place of the second course requirement. You may only double-count in the general education area of your degree. You cannot double count one course as two major requirements.

## MAJOR COURSE REQUIREMENTS

The courses required for each major are listed in the Third and Fourth Years on the suggested four-year degree plans. Accounting majors are also required to take LCOB 200 and are encouraged to complete it in the sophomore year. Students

are required to have a 2.0 GPA in their major, in addition to their Overall GPA and Marshall GPA. Major GPA's are calculated with the grades earned in your Third Year and Fourth Year courses. If you have any questions, please consult with your advisor.

### Choosing a Major

All students in the College of Business must declare a major by the time they have completed 58 hours of coursework. You should select your major based on your personal interests and career goals. Many students find it useful to complete their introductory business courses before selecting a major. If you are not ready to select a major, you can be classified as Undecided Business. This designation will allow you plenty of time to think about your options before you are required to select a major in business. When you are ready, you can declare your major by completing the Change of Major form in the Academic Advising Center in Corbly Hall 107.

## MINOR PROGRAMS OF STUDY

Students may desire a limited but structured background in one of the functional areas of business. The following minor programs of study provide such structured backgrounds. These minors are the only minors available in the COB.

**Accounting Minor** - A minimum of 12 credit hours in Accounting, to include ACC 311, 318, 348, and three hours from another upper-level course. Choose from among ACC 312, 341, 412, 418, 448, or 400-level Special Topics. (See course descriptions for information about prerequisites.) NOTE: All courses must be completed with a grade of C or better.

**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.

**Entrepreneurship Minor** - A minimum of 15 credit hours to include - Required Courses: ACC 215/216 (ACC 310 for non-business majors only), MGT 360, MGT 461, and MKT 340. [ACC 215/216 counts only as 3 hours of an elective towards the 12 hours required for the minor]; and one Elective Course: FIN 380, LE 366; MIS 350, MKT 231; or an internship in entrepreneurship in ACC 490, ECN 490, FIN 490, MGT 490, MIS 490, or MKT 490.

**Finance Minor** - A minimum of 12 credit hours in Finance, to include FIN 323, plus six hours from among FIN 321, 343, 370; plus three hours taken in any of the discipline's 400-level courses.

**Management Minor** - A minimum of 12 credit hours, including MGT 320 and 422; plus six hours of 400 level MGT courses.

**Management Information Systems Minor** - A minimum of 12 credit hours to include MIS 290 and MIS 340, plus six hours from among the 300/400 level MIS courses (excluding MIS 475).

**Marketing Minor** - A minimum of 12 credit hours, to include MKT 340 and nine other hours of Marketing.

**Military Science and Leadership Minor** - A minimum of 16 credit hours in military science and 3 credit hours in history, as well as completion of the Summer training program Leadership Development and Assessment Course at Fort Lewis, WA. All Military Science courses are 300- and 400- level (MS 301/301L, MS302/302L, MS401/401L, MS402/402L). Completion of minor with approval of the Professor of Military Science.

**Risk Management and Insurance Minor** - A minimum of 12 credit hours to include FIN 321, FIN 329, FIN 405, and three hours from among (1) a SFT course approved by the Finance and Economics division, or (2) a 300-400 level course approved by the Finance and Economics division.

## CREDIT HOUR LIMIT FOR NON-BUSINESS MAJORS

Students who are not majoring in the College of Business but want to take business courses are limited to a maximum of 27 hours in business. Business courses include classes with the following designations: ACC, BUSN, ECN, FIN, LCOB, LE, MGT, MIS, MKT. Students who are not majoring in business but wish to complete the requirements for a minor in business should plan their courses appropriately. Students who have completed 27 hours in business and are enrolled for additional business classes will be administratively withdrawn.

## 3+2 PROGRAM

The 3+2 Program offered by the 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 in a total of five academic years. While still a senior, a student can take graduate coursework at either the Huntington or South Charleston campus of Marshall University's Graduate School of Management.

Students are allowed to double-count up to nine hours of graduate level courses from their MBA or six hours of graduate level courses from their MS degree toward their bachelor's degree requirements. Students enrolled in the program save time and money.

The 3+2 Program is especially attractive for accounting majors, who can enroll in the program to meet the requirements for the MBA or MS while completing the 150 hours required by the state of West Virginia to become a CPA. Students are assured of quality instruction as all faculty meet AACSB's stringent requirements for graduate faculty status.

## **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; and completed a three-hour calculus course;
- 3) Be reasonably likely to complete all undergraduate degree requirements within two semesters after being admitted to the 3+2 Program;
- 4) Have completed the GMAT and received a score of 500 or better;
- 5) Have an overall undergraduate GPA of 3.0 or better at the time of application.

## **Admission Requirements for Master of 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;
- 3) Be reasonably likely to complete all undergraduate degree requirements within two semesters after being admitted to the 3+2 Program;
- 4) Have completed the GMAT and received a score of 500 or better and have a minimum overall GPA of 2.75; **or** have an overall undergraduate GPA of 3.0 or better at the time of application.

# **MILITARY SCIENCE**

## **U.S. Army Reserve Officers' Training Corps**

The Marshall University Reserve Officers' Training Corps Program, established at Marshall in September, 1951, is open to both men and women. The objective of this program is to produce leaders capable of serving as commissioned officers in the U.S. Army active and reserve forces. It provides a basic military education which, 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.

### **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 a military obligation 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. Advanced Course enrollment requires approval of the Professor of Military Science. Upon contracting, students receive a monthly stipend of \$300 to \$500, 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 a beginning salary of approximately \$43,000 per year.

### **Two-Year Program**

Students who have not taken the first two years of Military Science may gain credit by attending the Leaders' Training Course (MS 251) at Fort Knox, Kentucky. Students are awarded six credit hours for this camp and are paid approximately \$700 for attending the five-week camp. You may attend the Leaders' Training Course with no obligation. If the student decides to enter the Advanced Course after attending the Leaders' Training Course (LTC), the obligation begins the first day of the junior year. 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.

## **Minor Programs of Study**

Military Science and Leadership: A minimum of 16 credit hours in military science and 3 credit hours in history, as well as completion of the Summer training program Leadership Development and Assessment Course at Fort Lewis, WA. All Military Science courses are 300- and 400- level (MS 301/301L, MS302/302L, MS401/401L, MS402/402L). Completion of minor with approval of the Professor of Military Science.

## **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.

## **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.





# College of Education and Professional Development

**Dr. Teresa Eagle, Dean**  
**Dr. Thelma (Sissy) Isaacs, Associate Dean**  
**Dr. Sandra Stroebe, Associate Dean**  
[www.marshall.edu/coepd](http://www.marshall.edu/coepd)  
[coepd@marshall.edu](mailto:coepd@marshall.edu)

## Program Directors

**Early Childhood Education:** Dr. Janet Dozier ([dozier@marshall.edu](mailto:dozier@marshall.edu))  
**Curriculum and Instruction (Elementary/Secondary/Reading):** Dr. Paula Lucas ([whitep@marshall.edu](mailto:whitep@marshall.edu))  
**Special Education:** Dr. Melisa Reed ([reed@marshall.edu](mailto:reed@marshall.edu))  
**Educational Foundations:** Dr. George Watson ([watson@marshall.edu](mailto:watson@marshall.edu))

## Professors

Angel, Arneson, Backus, Boswell, Dozier, Graham, Isaacs, Klein, Lowry, Lucas, Maynard, Mhango, Murphy, Reed, Seelinger, Sottile, Spatig, Watson

## Associate Professors

Banks, Blanco, Corrigan, Kallam, Winter

## Assistant Professors

Allenger, Cartwright, Farenga, Lockwood, Paynter

## 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 insured 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 Student Services for information regarding your program.

# ADMISSION TO THE COLLEGE OF EDUCATION AND PROFESSIONAL DEVELOPMENT

Regular admission to the university constitutes admission to the College of Education and Professional Development for entering freshmen.

## 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 Student Services.

## 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 Office of Student Services prior to enrollment.

## ACADEMIC PROBATION

Any student who has less than a 2.0 average will be placed on academic probation. Students with transfer credit must satisfy the 2.0 overall and institutional requirement.

A student on probation must show the improvement stipulated by the Marshall University Academic Probation and Suspension Policy during each succeeding term in which he or she is enrolled. Students failing to meet this standard will be suspended and declared ineligible to attend the next regular academic semester or may be dismissed from the university.

1. Students, while on academic probation, must request permission to enroll each term from the Director of Student Services in Jenkins Hall 225.
2. Students desiring to take courses at another institution must complete an official request form seeking approval **PRIOR** to visiting another institution as a transient student.

## 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 Office of Student Services, Jenkins Hall 225.

## 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. 2.7 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. 2.7 in each specialization.
  - c. 2.7 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 Pre-Professional Skills Test (PPST).

## TEACHER EDUCATION

### 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 after the prior to completion of 90 credit hours. As noted below, admission to Teacher Education status requires a 2.7 GPA and successful completion of the PRAXIS I examination. 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.

### Admission to Teacher Education

1. Enrolled in the College of Education and Professional Development as a PRE-TEACHER EDUCATION major.
2. Completed at least 24 credit hours, including EDF 218/270 (12 hours for transfer students).
3. Maintained Grade Point Average of 2.7 or better for all courses attempted OVERALL.
4. Maintained Grade Point Average of 2.7 or better for all courses attempted at Marshall University.
5. ACT composite of 21 (see Office of Student Services, 225 Jenkins Hall, for alternative entrance table).
6. Successfully passed ALL THREE PARTS (reading, writing, mathematics) of the Praxis I: Pre-Professional Skills Test (PPST), 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 I: Pre-Professional Skills Test (PPST) during their first 12 hours at Marshall University if they plan to begin professional education core classes during their second academic term.

### Process for Application for Admission to Teacher Education

1. During enrollment in EDF 218, each student will be asked to submit an Application for Admission to Teacher Education.
2. During the semester the application is submitted, personnel in the Office of Student Services (Jenkins Hall 225) will evaluate each student's record to determine eligibility for admission to Teacher Education.
3. Each transfer student is responsible for initiating the application procedure through the Office of Student Services, 225 Jenkins Hall.

Students who desire to become teachers in early childhood, pre-kindergarten/kindergarten, elementary, middle, and secondary schools and who are confident that they can attain the standards of academic and professional competency required, enroll in the College of Education. Students who are enrolled in another college or school of the university may not enroll in the professional education core courses except for EDF 218 and EDF 270.

## 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 dress and conduct which 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 *Handbook of Clinical Experience* can be accessed online at [www.marshall.edu/coe](http://www.marshall.edu/coe).

## 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.*

The PPD is provided free of charge at the Cabell County Health Clinic on specified days. Check with the instructor of your course or inquire in the office of the Director of Clinical Experiences, Jenkins Hall 201, for further details.

## BACKGROUND CHECK POLICY

**ALL STUDENTS REPRESENTING MARSHALL UNIVERSITY MUST BE AUTHORIZED BY THE DIRECTOR OF CLINICAL EXPERIENCES PRIOR TO 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 CertifiedBackground.com as an approved provider of background checks for our students. You must obtain a background check at CertifiedBackground.com or another third party vendor (approved by the Director of Clinical Experiences) to be permitted into a school. All results must be received by the second week of the semester in order to be eligible for any clinical assignment. Certified Background charges \$46.00 for this service. Renewals are cheaper – check the website. All fees are the responsibility of the student. You should contact Kristi James, Director of Clinical Experiences at [james6@marshall.edu](mailto:james6@marshall.edu) or 304-696-3239 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 Clinical Experiences 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). Students are advised not to commit themselves to long-term leases since it may be necessary for some to seek housing in areas which are beyond commuting distance. 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.

**Admission to student teaching at Marshall University requires the following:**

1. Completion of the professional education core prerequisites.
2. CORE CURRICULUM REQUIREMENTS with the grade of *C* or better in English composition 201, 302, or 201H.
3. A Grade Point Average of 2.7 or better in all courses attempted and in **all coursework at Marshall University**, in all courses in the **teaching specializations**, and in all courses in **professional education**. Courses in specialization(s) and professional education must be passed with the grade of *C* or better. Students should review their program sheets to identify professional education courses. It will be the student's responsibility to insure that the above grade averages have been met prior to entering student teaching. Any student who enters student teaching without the above grade averages will be withdrawn by administrative action.
4. The completion of 90% of the coursework in the teaching specialization(s). Applicants must complete a minimum of 100 hours prior to the beginning of student teaching. All professional education courses must be taken prior to student teaching except EDF 475.
5. **Application for Student Teaching.** Applications must be completed by midterm of the semester previous to enrolling for this experience. The deadline date for making application for student teaching will be posted outside the Office of Clinical Experiences, Jenkins Hall 227.

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.

## **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.

## **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, Jenkins Hall 225.



# **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. The application packet will be given to students in EDF 218 or can be picked up in Jenkins Hall 225.

## **Monitoring Acceptance Status**

Once applications are processed and entered on the teacher education database, the student will receive a letter 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 Office of Student Services, Jenkins Hall 225, 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.

## **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
  - Physical Education
4. Secondary 5-Adult Education
  - English
  - French
  - General Science
  - Mathematics
  - Oral Communications
  - Physical Education
  - Social Studies
  - Spanish
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
  - Health 5-Adult
  - Journalism 5-Adult
  - Latin 5-Adult

*(continued)*

Mathematics 5-9  
 Mentally Impaired K-6 or 5-Adult  
 Social Studies 5-9

Students obtain program sheets from the Office of Student Services, 225 Jenkins Hall, 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.

## CURRICULAR STRUCTURE

The Bachelor of Arts degree in the College of Education and Professional Development includes the following components:

### *University-Wide Requirements*

Core I requirements .....9 hours

FYS 100

2 CT-designated courses

Core II requirements..... 25 hours

ENG 101

ENG 201

CMM 103

Fine Arts

Humanities

Math

Physical/Natural Science

Social Science

Additional requirements.....9 hours

6 hours of Writing Intensive courses

3 hours of International or Multicultural courses

College-Wide Requirements .....4 hours

CI 102

CI 350

45 Upper-division hours

Successful passage of all three parts of the Praxis I (PPST)

Admission to Teacher Education

## ART PreK-ADULT

TEACHING SPECIALIZATION..... 55 hours

ART 113, 201, 202, 214, 215, 217, 218, 219, 350 or 353, 299, 301, 305, 307, 315, 340, 389 or 464, 460, 499

ART \_\_ and \_\_: Select two advanced courses from Art Studio, Art History, or Art Education

PROFESSIONAL EDUCATION CORE ..... 39 hours

EDF 218, 270, 319, and 475

CISP 421 and 422

CI 345, 401, 449, and 470

ART 468

Student Teaching (full semester) (CAPSTONE)

#### Other Requirements:

- A portfolio of art work completed in the freshman year for review by the Art faculty. This must be submitted **PRIOR TO** enrollment for advanced art classes.
- A satisfactory exhibition of creative work.
- All coursework in the School of Art and Design must be completed with a grade of *C* or better. 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.
- In addition to the requirements listed here, Art Education majors must meet the policies listed under the School of Art and Design, listed within the College of Arts and Media.

## BIOLOGICAL SCIENCE 9-ADULT

TEACHING SPECIALIZATION .....66-67 hours

MTH 122 and 127

BSC 120, 121, 212, 227, 302 or 430 or 460, 320 or any Ecology or Environmental Science course, 322, 324, 416, and 491

CHM 211, 217, 212, and 218

GLY 200 and 210L

PHY 201 and 202

PS 325

PROFESSIONAL EDUCATION CORE ..... 39 hours

EDF 218, 270, 319, 435, and 475

CISP 421 and 422

CI 345, 415, 449 and 470

Student Teaching CAPSTONE (full semester)

## CHEMISTRY 9-ADULT

TEACHING SPECIALIZATION .....46-51 hours

MTH 127 or 130, and 140 or 229

CHM 211, 217, 212, 218, 307, 327, 345, 365, 366, and 490 or 491

CHM 300-499 Elective

GLY 420

PS 325

PROFESSIONAL EDUCATION CORE ..... 39 hours

EDF 218, 270, 319, 435, and 475

CISP 421 and 422

CI 345, 415, 449, and 470

Student Teaching CAPSTONE (full semester)

## EARLY CHILDHOOD EDUCATION

TEACHING SPECIALIZATION ..... 52 hours

CI 102

CISP 320, 420, 429

ECE 101, 102, 201, 202, 203, 204, 215, 303, 322, 323, 324, 325, 420, 430, and 435

MUS 342

(continued)

PROFESSIONAL EDUCATION CORE ..... 30 hours  
EDF 218, 270, 475  
CISP 428, 445, 454, and 455  
ECE 421, 431, and 472  
CI 459

## **EARLY EDUCATION PK-K (Second specialization only)**

TEACHING SPECIALIZATION ..... 15 hours  
ECE 303, 430 and 431  
CISP 428  
CI 459

## **ELEMENTARY EDUCATION K-6 COMPREHENSIVE**

TEACHING SPECIALIZATION ..... 51 hours  
ART 335  
CI 101, 201, 342, 343, and 446  
ESS 305  
GEO 317  
HST 103, 230, and 231  
MUS 342  
SOS 207  
BSC 105  
PS 109 and 109L, 110 and 110L

PROFESSIONAL EDUCATION CORE ..... 48 hours  
EDF 218, 270, 319, 435 and 475  
CISP 421 and 422  
CI 301, 321, 360, 442, 447, 448, and 471  
Student Teaching CAPSTONE (full semester)

## **ENGLISH 5-ADULT**

TEACHING SPECIALIZATION ..... 36 hours  
ENG 350, 355, 402, 419, 420, 430, 476  
Choose one of the following: ENG 354, 360 or 408  
Choose two from ENG 203, 240 , 241 , 242, 426, 428, 450, or 451  
Choose one of ENG 410 or 412  
Choose one of ENG 321, 323, 421, 422, 423, 424, or 434

PROFESSIONAL EDUCATION CORE ..... 42 hours  
EDF 218, 270, 319, 435, and 475  
CISP 421 and 422  
CI 345, 401, 403, 449, and 470  
Student Teaching CAPSTONE (full semester) .....

## ENGLISH 5-9 (Second Specialization only)

TEACHING SPECIALIZATION.....	30 hours
ENG 203 or 240 or 241 or 242, 350, 402, 410 or 412, 419, 420, and 475	
Choose one of ENG 317, 321, 409, 411, 413, 417, 421, 422, 436, 437, 438, 446, or 462	
Choose one of ENG 319, 323, 414, 415, 423, 424, 433, 434, or 447	
Choose one of ENG 428, 450, or 451	
PROFESSIONAL EDUCATION CORE .....	18 hours
CI 401 and 403	
Student Teaching CAPSTONE (full semester)	

## FRENCH 5-ADULT

TEACHING SPECIALIZATION.....	36 hours
FRN 101 and 102 or 112, 203, 204, 305 or 306, 315 or 316, 323 or 324, 335 or 336, 407	
FRN 400-499 (2 Electives)	
FRN Capstone Course	
PROFESSIONAL EDUCATION CORE .....	42 hours
EDF 218, 270, 319, 435, and 475	
CISP 421 and 422	
CI 345, 401, 403, 449, and 470	
Student Teaching CAPSTONE (full semester)	
Other Requirements	
Proficiency Portfolio and ACTFL Oral Proficiency Interview	

## GENERAL SCIENCE 5-ADULT

TEACHING SPECIALIZATION.....	49 hours
MTH 122 and 127	
BSC 120, 121, and 320 or any Ecology or Environmental Science course	
CHM 211, 217, 212, and 218	
GLY 200 and 210L	
PHY 201, 202, 203, and 204	
PS 101, 325	
PROFESSIONAL EDUCATION CORE .....	45 hours
EDF 218, 270, 319, 435, and 475	
CISP 421 and 422	
CI 345, 401, 403, 415, 449, and 470	
Student Teaching CAPSTONE (full semester)	

## GENERAL SCIENCE 5-9 (Second Specialization only)

TEACHING SPECIALIZATION.....	32 hours
BSC 120, 121, 320 or any Ecology or Environmental Science course	
GLY 200 and 210L	
PS 101 109, 109L, 110, 110L, 325	

(continued)

PROFESSIONAL EDUCATION CORE .....	18 hours
CI 401 and 403	
Student Teaching CAPSTONE (full semester)	

## JAPANESE PreK-ADULT

TEACHING SPECIALIZATION.....	36 hours
JPN 101, 102, 203, 204, 240, 305, 315, 401, 407	
6 hrs. of JPN 300/400 electives	
JPN 490	
PROFESSIONAL EDUCATION CORE .....	45 hours
EDF 218, 270, 319, 435, and 475	
CISP 422	
CI 321, 345, 401, 403, 415, 449, and 470	
Student Teaching CAPSTONE (full semester)	

## JOURNALISM EDUCATION 9-ADULT (Second Specialization only)

TEACHING SPECIALIZATION.....	36 hours
JMC 100, 102, 201, 241, 301, 302, 360, 402, 404, 428, and 440	
JMC Elective	

## LATIN 5-ADULT (Second Specialization only)

TEACHING SPECIALIZATION.....	36 hours
CL course chosen with advisor's approval	
CL 436	
LAT 101, 102, 203, 204, 499	
LAT Electives (5 courses)	
PROFESSIONAL EDUCATION CORE .....	18 hours
CI 401 and 403	
Student Teaching CAPSTONE (full semester)	

## MATHEMATICS 5-ADULT

TEACHING SPECIALIZATION.....	47 hours
MTH 229, 230, 231, 300, 331, 404, 405, 440, 445, 446, 448, 449, 450, and 491	
PROFESSIONAL EDUCATION CORE .....	42 hours
EDF 218, 270, 319, 435, and 475	
CISP 421 and 422	
CI 345, 401, 403, 449, and 470	
Student Teaching CAPSTONE (full semester)	

## MATHEMATICS 5-9 (Second Specialization only)

TEACHING SPECIALIZATION .....	27-29 hours
MTH 122, 127 or 130, 140, 220, 225, 329, 400, 401, and 404	



PROFESSIONAL EDUCATION CORE ..... 18 hours

CI 401 and 403

Student Teaching CAPSTONE (full semester)

## **MENTALLY IMPAIRED K-6 (Second Specialization only)**

TEACHING SPECIALIZATION ..... 18 hours

CISP 320, 420, 433, 435, 439 and 453

## **MENTALLY IMPAIRED 5-ADULT (Second Specialization only)**

TEACHING SPECIALIZATION ..... 18 hours

CISP 320, 420, 433, 435, 439, and 453H

## **MUSIC PreK-ADULT**

TEACHING SPECIALIZATION ..... 62-65 hours

Principal Applied (12 Hours)

Principal Ensemble (7 Hours)

Techniques (5 Hours)

MUS 100 (7 classes)

MUS 111, 112, 113, 114, 211, 212, 213, 214, 218, 290, 301, 315, 320 or 321, 360, 361, and 415

Voice, String, or Piano Majors: MUS 266 (1 semester/1 credit hour)

Instrumental Majors: MUS 266 (3 semesters/3 credit hours) and Choral Ensemble (1 semester hour/1 credit hour)

PROFESSIONAL EDUCATION CORE ..... 39 hours

EDF 218, 270, and 475

CISP 421 and 422

CI 345, 449, and 472

MUS 338, 339, and 340

Student Teaching CAPSTONE (full semester)

### **Other Requirements:**

All coursework in the School of Music and Theatre 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.

In addition to the requirements listed here, Music Education majors must meet the policies listed under the School of Music and Theatre, listed within the College of Arts and Media. Specifically, students should review the introductory section immediately under the music program heading, and the material under the Applied Music and Ensembles headings. In addition to this catalog, detailed information regarding music program policies and procedures and specific requirements for applied music and ensemble participation can be found in the *Music Student Handbook* issued by the School of Music and Theatre.

## **ORAL COMMUNICATION 5-ADULT (COMMUNICATION STUDIES)**

TEACHING SPECIALIZATION ..... 37 hours

CMM 205, 213, 240 or 320, 302, 308, 310, 315, 345, and 450

THE 111, 150, 440 or 441 or elective

(continued)

PROFESSIONAL EDUCATION CORE ..... 45 hours  
EDF 218, 270, 319, 435, and 475  
CISP 421 and 422  
CI 345, 401, 403, 415, 449, and 470  
Student Teaching CAPSTONE (full semester)

Other Requirements:

Oral Communication specialists must pass the voice and articulation screening test. Those who must receive therapy at the Speech Clinic will not receive academic credit for clinic participation. Specialists are also required to participate in co-curricular activities before their senior year. Activities and hours of participation will be recorded by the Communication Studies Department.

## PHYSICAL EDUCATION AND HEALTH (WELLNES PROGRAM) PreK-ADULT

TEACHING SPECIALIZATION ..... 51 hours  
DTS 201  
HS 201, 220, 221, 222, 325, 365, 426  
ESS 118, 211, 218, 305, 350, 369, and 435  
6 PEL Activity Classes (Must have advisor's approval)

PROFESSIONAL EDUCATION CORE ..... 42 hours  
EDF 218, 270, 319, 435, and 475  
CISP 421 and 422  
CI 345, 401, 415, 449, and 470  
Student Teaching CAPSTONE (full semester)

## PHYSICS 9-ADULT COMPREHENSIVE

TEACHING SPECIALIZATION ..... 56-57 hours  
MTH 122, 127 or 130, and 140  
CHM 211 and 217  
GLY 200 and 210L  
PHY 201, 202, 203, 204, 320, 421, 447, and 491 or 492  
PS 325, 400, and 400L  
PHY/PS (11 hours of Elective courses: 2 hours of advanced lab and 3 upper-elective courses)

PROFESSIONAL EDUCATION CORE ..... 39 hours  
EDF 218, 270, 319, 435, and 475  
CISP 421 and 422  
CI 345, 415, 449, and 470  
Student Teaching CAPSTONE (full semester)

## SOCIAL STUDIES 5-ADULT

TEACHING SPECIALIZATION ..... 57 hours  
ECN 250 and 253  
GEO 100, 203, and 317  
HST 101, 102, 103, 208, 219, 230, 231, and 440  
MTH 225  
PSC 104

PSY 201  
SOC 200  
SOS 207 and 404

PROFESSIONAL EDUCATION CORE ..... 45 hours  
EDF 218, 270, 319, 435, and 475  
CISP 421 and 422  
CI 345, 401, 403, 415, 449, and 470  
Student Teaching CAPSTONE (full semester)

## **SOCIAL STUDIES 5-9 (Second Specialization only)**

TEACHING SPECIALIZATION ..... 45 hours  
ECN 200  
GEO 100, 203, and 317  
HST 101 or 102, 103, 208, 230, 231, and 440  
PSC 104  
PSY 201  
SOC 200  
SOS 207 and 404

PROFESSIONAL EDUCATION CORE ..... 18 hours  
CI 401 and 403  
Student Teaching CAPSTONE (full semester)

## **SPANISH 5-ADULT**

TEACHING SPECIALIZATION ..... 36 hours  
SPN 101 and 102 or 112, 203, 204, 305 or 306, 315 or 316, 323 or 324, 335 or 336, and 407  
SPN 400-499 (2 Electives)  
SPN Capstone

PROFESSIONAL EDUCATION CORE ..... 42 hours  
EDF 218, 270, 319, 435, and 475  
CISP 421 and 422  
CI 345, 401, 403, 449, and 470  
Student Teaching CAPSTONE (full semester)

Other requirements:

Proficiency Portfolio and ACTFL Oral Proficiency Interview



# College of Health Professions

**Dr. Michael Prewitt, Dean**

*[www.marshall.edu/cohp](http://www.marshall.edu/cohp)*

*[cohp@marshall.edu](mailto:cohp@marshall.edu)*

The College of Health Professions was formed in 1998 when the academic units of Nursing, Communication Disorders, Clinical Laboratory Sciences, and Dietetics united to better serve the health needs of the region. In July 2006 the college expanded to include the Department of Social Work. In 2010 we welcomed the School of Kinesiology and the Health Informatics program to the COHP. This year we are pleased to introduce an undergraduate public health degree as well as an undergraduate health sciences program. 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.

## 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).

#### CORE I:

**First Year Seminar..... 3 hours**

FYS 100 must be taken during the freshman year.

Students who transfer to Marshall University as sophomores [26 or more credit hours] are exempt from taking FYS 100.

<b>Critical Thinking (CT)</b> .....	<b>6 hours</b>
Students must choose from the Critical Thinking courses listed on the general education web page ( <i>marshall.edu/gened</i> ).	
Students who transfer to Marshall University as sophomores [26 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).	
<b>CORE II:</b>	
<b>Composition: ENG 101 and 201 (or 201H)</b> .....	<b>6 hours</b>
Students with an ACT score of 28-33 are encouraged to take ENG 201H. 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 and 201. If a student receives a grade of “D”, the student will only receive three hours of credit toward ENG 201 and must either repeat ENG 201H or go back and take ENG 101. Students MUST receive a grade of “C” or better in ENG 201. Students who receive a grade of “D” in ENG 201 must repeat the course for a higher grade	
<b>Communication Studies</b> .....	<b>3 hours</b>
Students must choose from the Communication Studies courses listed on the general education web page ( <i>www.marshall.edu/gened</i> )	
<b>Fine Arts</b> .....	<b>3 hours</b>
Students must choose from the Fine Arts courses listed on the general education web page ( <i>www.marshall.edu/gened</i> )	
<b>Humanities</b> .....	<b>3 hours</b>
Students must choose from the Humanities courses listed on the general education web page ( <i>www.marshall.edu/gened</i> )	
<b>Math</b> .....	<b>3 hours</b>
Students must choose from the Mathematics courses listed on the general education web page ( <i>www.marshall.edu/gened</i> )	
<b>Physical/Natural Science:</b> .....	<b>4 hours</b>
Students must choose from the Physical/Natural Science courses listed on the general education web page ( <i>www.marshall.edu/gened</i> )	
<b>Social Science</b> .....	<b>3 hours</b>
Students must choose from the Social Science courses listed on the general education web page ( <i>www.marshall.edu/gened</i> )	

## 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 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.

## 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.

## 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.

## PRE-HEALTH COURSE REQUIREMENTS

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:

- BSC 227 Human Anatomy
- BSC 228 Human Physiology
- CHM 203 General Chemistry I
- CHM 204 General Chemistry II
- CHM 211 Principles of Chemistry I
- CHM 217 Principles of Chemistry I lab
- CHM 212 Principles of Chemistry II
- CHM 218 Principles of Chemistry II lab
- MTH 121 Concepts and Applications of Mathematics,
- MTH 125 Finite Math
- MTH 127 Expanded College Algebra,
- MTH 130 College Algebra
- PSY 201 General Psychology
- SOC 200 Introduction to Sociology

Suggested Electives include:

- ANT 201 Cultural Anthropology
- ART 407 Tribal Art
- BSC 250 Microbiology and Human Disease
- CD 101 Intro to Communication Disorders
- CD 241 Intro to Communication Science
- CLS 105 Medical Terminology and Intro to Laboratory Medicine
- DTS 201 Introductory Nutrition
- DTS 202 Introductory Foods
- Statistics (EDF 417, MGT 218, MTH 225, PSY 223 or SOC 345) Statistics
- GEO 100, Introduction to Cultural Geography
- PH 105, Introduction to Epidemiology
- PH 101, Introduction to Public Health
- PH 270, Global Health
- HS 200 Medical Terminology
- HS 220 Personal Health I
- HS 222 Personal Health II
- HST 103, World Since 1850
- PHY 101 Conceptual Physics

*(continued)*



PHY 101L Conceptual Physics Lab  
SFT 235, Introduction to Safety  
SWK 203 Intro to Social Work  
SWK 210 Social Justice and Human Behavior

## **CLINICAL LABORATORY SCIENCES**

**Jennifer D. Perry, Chair**  
*[www.marshall.edu/cohp](http://www.marshall.edu/cohp)*  
*[clinical@marshall.edu](mailto:clinical@marshall.edu)*

### **Associate Professors**

Amjad, Perry

### **Assistant Professor**

Meadows

There are three degree options in the Clinical Laboratory Sciences (CLS) Department: the Associate in Applied Science in Medical Laboratory Technology (AAS-MLT or MLT); the Bachelor of Science in Medical Laboratory Science (BS-MLS), and the Bachelor of Science in Cytotechnology (BS-CYT). 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. The bachelor’s degree in Cytotechnology follows a “3+1” model, where a student completes 3 years of prerequisites and then completes a 1-year clinical component in a hospital school of cytotechnology.

### **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.

## **MEDICAL LABORATORY TECHNICIAN (AAS-MLT) ASSOCIATE DEGREE**

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.

### **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 2.0. Students who fall into the category of having to take CHM 111 as a prerequisite to CH 211 due to ACT scores must have successfully completed CHM 111 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 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 fall semester of the current year. 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/cohp](http://www.marshall.edu/cohp)).

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 30 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.

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 (CLS 230, 210, 220, 255, 270-273) with their class. 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 (CLS 270, 271, 272 and 273). 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 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:

- CHM 211 Principles of Chemistry I
- CHM 217 Principles of Chemistry I Lab
- CHM 212 Principles of Chemistry II
- CHM 218 Principles of Chemistry II Lab
- BSC 227 Human Anatomy
- BSC 228 Human Physiology
- CLS 200 Clinical Biochemistry
- CLS 230 Clinical Hematology
- CLS 210 Clinical Immunohematology
- CLS 220 Clinical Microbiology
- CLS 255 Clinical Laboratory Problems
- CLS 270 Clinical Practicum Hematology
- CLS 271 Clinical Practicum Clinical Chemistry
- CLS 272 Clinical Practicum Blood Bank
- CLS 273 Clinical Practicum Microbiology

## BACHELOR OF SCIENCE IN MEDICAL LABORATORY SCIENCE

### 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 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 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, nurses, health care computer specialists, hospital administrators, pharmaceutical salespersons, science teachers, college professors, biomedical researchers, librarians, medical sonographers, attorneys, and scientific device reviewers. Upon successful completion of the Bachelor of Science degree in Medical Laboratory Science, the student is eligible for certification examinations offered by such agencies including 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 BS in Medical Laboratory Science program in order to obtain a BS from Marshall University, which includes meeting Core Curriculum standards required for sophomore transfer students with greater than 26 credit hours. Sophomore transfer students with 26 or more credit hours must complete one critical thinking (CT) designated course but are exempt from the remaining 6 hours of Core I. Core II requirements may be fulfilled through a combination of transfer and Marshall credit hours.

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. Most general prerequisite courses in the junior year are also offered online through Marshall University, with the exception of CHM 327, CHM 345 or 365 and BSC 300 or 400 elective; these courses may be taken through other institutions and transferred into Marshall University if preferred. Other online options and course substitution suggestions are available through the program director. ***A minimum of 41 credit hours must be taken from Marshall University in order to obtain the Bachelor of Science degree in Medical Laboratory Science.***

## 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's 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.

The online BS-MLS courses are currently limited to 20 students; admission will be granted to current Marshall University BS-MLS students first 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. Further evaluation for placement into the program will be determined based on over

## Advanced Clinical Practicum/Applied Learning Experiences

MLTs who completed clinical rotations through a NAACLS accredited MLT/CLT program and/or the equivalent of at least 2 years of full-time work experience in a clinical laboratory as an MLT/CLT within the last 5 years would be permitted to obtain advanced standing for the following courses through the Clinical Proficiency Examination:

CLS 472 Advanced Clinical Practicum I (3 credits)

CLS 473 Advanced Clinical Practicum II (3 credits)

Individuals will be evaluated on a case-by-case basis for credit granted for these advanced clinical rotation courses. As part of the clinical proficiency examination, students will be required to take a cumulative online examination and pass with a minimum score of 70%. Advanced Clinical Practicum experiences will be individually customized or credit granted based on the results of the Clinical Proficiency Examination. All students will complete requirements of the CLS 464, Laboratory Instrumentation and CLS 468 Senior Research courses in the clinical practicum setting during the final semester of the BS-MLS program. All students will also be required to complete a rotation in Molecular Diagnostics as part of their Advanced Clinical Practicum experience, or provide thorough documentation of recent clinical experience in this area in a clinical hospital laboratory. Students will be required upon admission to the BS-MLS program to initiate and participate in clinical site placement and/or the clinical affiliation process with a clinical laboratory in a hospital for advanced clinical experiences and complete the necessary documentation by mid-term of the semester preceding the students' anticipated advanced clinical practicum. 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 graduation from the BS-MLS program.

## 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:

<b>Fall Semester 1</b>	<b>Credit Hrs.</b>
CLS 460 Laboratory Management and Education	3
CLS 499 Seminar in Laboratory Management	2
<b>Total Hours</b>	<b>5</b>
 <b>Spring Semester 1</b>	 <b>Credit Hrs.</b>
CLS 310 Clinical Immunology and Molecular Diagnostics	3
CLS 466 Diagnostic Physiology	2
<b>Total Hours</b>	<b>5</b>

<b>Fall Semester 2</b>	<b>Credit Hrs.</b>
CLS 400 Advanced Clinical Chemistry	2
CLS 410 Advanced Immunohematology	2
CLS 420 Advanced Clinical Microbiology	2
CLS 430 Advanced Hematology	2
<b>Total Hours</b>	<b>8</b>
<b>Spring Semester 2*</b>	<b>Credit Hrs.</b>
CLS 464 Laboratory Instrumentation	3
CLS 468 Senior Research (Capstone)	2
CLS 472 Advanced Clinical Practicum I	3
CLS 473 Advanced Clinical Practicum II	3
<b>Total Hours</b>	<b>11</b>

\*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 SCIENCE (BS-MLS) COURSE REQUIREMENTS**

The Bachelor of Science – Medical Laboratory Science requires the following courses in addition to those listed under Core I, Core II and university requirements:

BSC 300 or 400 level elective  
 CHM 327 Introduction to Organic Chemistry  
 CHM 365 Biochemistry or CHM 345 Anal. Chem  
 ECN 200 or 250 Economics  
 MTH 225 Statistics  
 CLS 310 Clinical Immunology & Mol. Diag.  
 CLS 400 Advanced Clinical Chemistry  
 CLS 410 Advanced Immunohematology  
 CLS 420 Advanced Clinical Microbiology  
 CLS 430 Advanced Hematology  
 CLS 460 Laboratory Mgt. & Education  
 CLS 499 Seminar in Laboratory Medicine  
 CLS 466 Diagnostic Physiology  
 CLS 468 Senior Research (Capstone)  
 CLS 472 Advanced Clinical Practicum I  
 CLS 473 Advanced Clinical Practicum II  
 CLS 464 Laboratory Instrumentation

### **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, Tele. 773/ 714-8880). Students who complete CLS programs through Marshall University will be eligible for national certification examinations.

### **CYTOTECHNOLOGY**

Cytotechnologists work in hospitals, clinics, and private physicians' laboratories. They stain and analyze body cells under the microscope for changes that indicate cancer or infection.

### **Bachelor of Science in Cytotechnology**

Students wishing the degree in cytotechnology complete the first three years of the academic curriculum through the Clinical Laboratory Sciences Department of the College of Health Professions and then apply for one year (12 months) at a hospital-based school of cytotechnology.

The senior year of professional education is completed at the Cabell Huntington Hospital (CHH) School of Cytotechnology, which is accredited by the Committee on Accreditation of Allied Health Educational Programs (CAAHEP, 35 East Wacker Drive Suite 1970 Chicago, IL 60601-2208; Tele. 312-553-9355) in collaboration with the American Society of Cytology (ASC). Upon successful completion of the entire curriculum, the student is eligible for the Bachelor of Science degree in Cytotechnology and is eligible to take the certification examination given by the American Society of Clinical Pathologists (ASCP).



### **Admission to a School of Cytotechnology**

Successful completion of the pre-clinical academic program does not automatically assure admission, since enrollment at the associated hospitals is limited and independent of Marshall University. CHH typically allocates 4 student positions per year for MU students.

An applicant for cytotechnology should expect to have earned an overall 2.5 GPA. Applicants for the final year of cytotechnology training provide a letter of application, a completed transcript review form, and two letters of reference to the Clinical Laboratory Sciences Department between January 1 and February 15 of the year they seek admission. Late applications will be accepted on a space-available basis. Copies of applications and transcript evaluations of qualified applicants are supplied to the respective hospital schools by the CLS Department. Each hospital cytotechnology program then selects qualified students to fill available student positions on the basis of Grade Point Average, letters of reference, and a personal interview.

Applicants for cytotechnology preceptorships must meet ASC minimum requirements. ASC requires that students in cytotechnology have completed 60 college semester hours which include 20 credit hours of biological science, 8 of chemistry, and 3 of mathematics. The Board of Registry (ASCP) requires graduates of an accredited school of cytotechnology and a bachelor's degree to be eligible for certification examinations. In order to achieve the requirement of the bachelor's degree, the MU cytotechnology curriculum includes more than the ASC requirements.

Each school of cytotechnology requires admitted students to comply with its internal requirements, which may include attendance at an instructional program on blood-borne pathogens and either begin the Hepatitis B vaccine series or sign a waiver form refusing it. MU students are also required to complete requirements and to provide documentation required by the College of Health Professions.

CHH charges tuition of approximately \$5000 for the year-long preceptorship; these charges are subject to change. Students working for the degree in cytotechnology and who have completed at least 24 credit hours at Marshall University may apply for a waiver of Marshall tuition for the clinical year. Cytotechnology students pay the health professions fee to MU.

Individuals seeking admission to the preceptorship for cytotechnology certification, but not in a degree program through MU should contact CHH directly.

## **COMMUNICATION DISORDERS**

**Dr. Karen McNealy, Chair**  
[www.marshall.edu/cohp](http://www.marshall.edu/cohp)

### **Professor**

McComas

### **Associate Professors**

Frank, McNealy, Miller

### **Assistant Professors**

Coleman, Dixon, Harlow, Holland, Kemper, Leonard, Wood

The Department of Communication Disorders offers an undergraduate and graduate degree in speech pathology. 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.

### **UNDERGRADUATE PROGRAM: ADMISSION/ACADEMIC POLICIES**

All students who declare Communication Disorders (CD) as their major are initially classified as Pre-CD students. The first five courses in the program (CD 101, 228, 229, 239, 241) are open to all students. Upon completion of those courses, Pre-CD students apply for admission to the undergraduate program. Applications for admission are due prior to April 30 of the year in which admission is sought. Admission to the program is required prior to enrolling in subsequent CD courses.

### **Admission to the CD Program**

#### *Category A:*

1. Those with a grade of C or better in all pre-CD courses and faculty approval are guaranteed admission; 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, admission to the program is not guaranteed.
2. 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 admitted to the undergraduate program, they must maintain the minimum requirements of 2.5 GPA (which includes the following 3 categories: (a) 2.5 overall, (b) 2.50 MU and (c) 2.5 CD) and a grade of C or better in all CD courses. Students who are admitted to the undergraduate program may not repeat CD courses for the purpose of raising their GPA to maintain eligibility in the program.

Students accepted into the program will complete the remaining degree requirements (academic coursework and clinical assignments) leading to a B.S. in Communication Disorders, a pre-professional degree. A 2.5 overall GPA is needed to meet CD graduation requirements. Students who apply for and/or accept clinical assignments are expected to fulfill the responsibilities of these assignments for the full semester. Students should consult the department chair, their academic advisor, and the clinic handbook regarding all academic and clinical requirements and standards specific to the program.

### **COMMUNICATION DISORDERS COURSE REQUIREMENTS**

In addition to Core I, Core II and university requirements the department also requires the following courses for graduation. A grade of C or better must be obtained for each of the following courses to meet graduation requirements.

CD 101 Intro to Communication Disorders  
CD 241 Intro to Communication Science  
CD 228 Language & Speech Development  
CD 229 Anatomy and Physiology of Speech & Hearing Mechanisms  
CD 239 Phonetics  
CD 322 Developmental Speech Disorders  
CD 328 Developmental Lang. Disorders  
CD 330 Acquired Communication & Swallowing Disorders  
CD 370L Field Experience  
CD 415 Professional Literacies for the SLP-Capstone Course  
CD 424 Diagnostic Processes  
CD 427 Therapeutic Procedures II  
CD 470L Therapeutic Procedures Lab  
CD 460 Basic Audiology  
CD 463 Aural Rehabilitation  
BSC Any biology course (4 hrs. or more)  
CISP 421 Special Education: Children with Exceptionalities  
EDF 319 Applications of Teaching Theory  
Foreign Language (9 hours in one language or 6 hours in one language and CD 461, Sign Language)  
PHY 101 & 101L  
PSY 223, Elementary Behavioral Statistics  
PSY 311 Child Development  
ENG 475 or 478 Linguistics/Sociolinguistics

In addition, the degree in Communication Disorders requires the following courses that are based on but supersede the Core I, Core II and university requirements:

Social Sciences (9 hrs.)  
Humanities (3 hrs.)

### **Minor in Communication Disorders**

This 12-hour minor will consist of completion of 4 out of the 5 courses listed below:

CD 101  
CD 241  
CD 228  
CD 229  
CD 239

# DIETETICS

**Dr. Kelli Williams, Chair**

[www.marshall.edu/cohp](http://www.marshall.edu/cohp)

## **Professor**

Gould, Linnenkohl, Williams

## **Assistant Professor**

Hovland

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.

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.

Students need to be advised that to be competitive for admission to a supervised practice experience (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.

## **Admission**

Entry to the Didactic Program in Dietetics involves formal application by candidates. Application forms are available from the DPD Director's Office. Students must submit one copy of the "Application for Program Admission" to the DPD Director's Office. Prior to admission to the Didactic Program in Dietetics, students interested in the major can enroll in Pre-Dietetics.

The following criteria are used for selection for admission:

- 1 Complete at least 45 hours of coursework with an overall Grade Point Average of 2.75 or higher.
- 2 Complete DTS 201 and DTS 202 with a grade of C or higher.

## **Academic Policies**

1. An overall Grade Point Average of 2.75 or higher is required for admission to the Dietetics major and for graduation.
2. 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.
3. 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.
4. No required course may be taken on a credit/non-credit basis.
5. 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.
6. All 400-level DTS courses must be completed at Marshall University.
7. Students must be admitted to the Dietetics program before taking required 400-level DTS courses.
8. All students admitted to 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.
9. Students enrolled in DTS 476 (Senior Seminar in Dietetics) are required to take a series of practice tests in order to better prepare them 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 such a time that the desired score is achieved.

## DIETETICS COURSE REQUIREMENTS

Dietetics students must take the following courses in addition to those listed as Core I, Core II and university requirements to earn their bachelor's degree:

ACC 310 Accounting for Entrepreneurs  
BSC 227 Human Anatomy  
BSC 228 Human Physiology  
BSC 250, Microbiology and Human Disease  
CHM 211 and 217 Principles of Chemistry I and Lab  
CHM 212 and 218 Principles of Chemistry II and Lab  
CHM 327 Introductory Organic Chemistry  
CHM 328, Introductory Organic Chemistry Laboratory  
CLS 105 Medical Terminology  
CLS 200 Clinical Biochemistry  
CMM 103 Fundamentals of Speech Communication  
ESS 345 Exercise Physiology  
MGT 320 Principles of Management  
MTH 127 College Algebra Expanded or MTH 130 College Algebra  
MTH 225 Intro Statistics  
PSY 201 General Psychology  
SOC 200 Introduction to Sociology  
DTS 201 Introductory Nutrition  
DTS 202 Introductory Foods  
DTS 215 Assessment & Education Strategies in DTS  
DTS 301 Foodservice Safety & Systems Management I  
DTS 302 Foodservice Safety & Systems Management II  
DTS 310 Life Span Nutrition  
DTS 320 Intermediate Nutrition  
DTS 403 Advanced Nutrition  
DTS 409 Community Nutrition  
DTS 460 Research in Dietetics  
DTS 468 Chemistry of Foods  
DTS 469 Medical Nutrition Therapy I  
DTS 470 Medical Nutrition Therapy II  
DTS 476 Senior Seminar in Dietetics

## 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 internship (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 BHS major on admission to the university. Students in the program must maintain a 2.0 grade point average. All required courses must be completed with at least a C. A maximum of three D's may be earned in the electives.

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.

# KINESIOLOGY

Dr. Gary McIlvain, Chair

## Professors

Mak, McIlvain, Shepherd

## Associate Professors

Dondanville, Schenewark, Twietmeyer

## Assistant Professors

Bae, Konz, Toma

The School of Kinesiology offers bachelor's degrees in a variety of health professions including athletic training, biomechanics, exercise science, and physical education – sports management and marketing. All program-related courses must be taken for a letter grade and cannot be taken under the credit/no credit grading option.

## ATHLETIC TRAINING

Athletic trainers are allied health care professionals who collaborate with physicians to optimize patient and client activity and participation. Athletic training encompasses the prevention, diagnosis, and treatment of emergency, acute, and chronic medical conditions involving impairment, functional limitations, and disabilities. ([www.NATA.org](http://www.NATA.org))

The B.S. in Athletic Training prepares students to become entry-level athletic trainers and qualifies them to take the BOC Exam (national board exam). It is a rigorous academic program that includes coursework in athletic training, anatomy, physiology, exercise physiology, psychology, and other science-related courses. A degree in Athletic Training offers graduates opportunities to practice in a variety of 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 from pre-athletic training into the Athletic Training education program is competitive and not guaranteed. Prospective students must meet the minimum criteria listed below to be considered for admission to the program:

- Admission to Marshall University;
- Declared Athletic Training as a major, including area of emphasis;
- An overall cumulative minimum GPA of 2.70.
- A C or better on all required pre-athletic training coursework: BSC 227 (or equivalent), ENG 101 and 201 (or equivalent), HS 200, HS 222, HS 215
- Apply to the Athletic Training Education Program
- 50 directed observation hours with a Marshall University-affiliated athletic trainer
- Successful interview (Interviews are extended during the spring semesters with applications due March 15)
- Ability to meet the Technical Standards of Admission documented by a licensed physician

### A. Prerequisites – Provisional Admission Criteria

Prospective students must have taken or be currently enrolled in the following when applying to the Athletic Training Education program.

HS 200, Comprehensive Medical Terminology (CT)

HS 215, Introduction to Athletic Training

HS 222, First Aid

BSC 227, Human Anatomy (or equivalent)

ENG 101 and 102 (or equivalent)

### B. Supportive Requirements

BSC 227, Human Anatomy

BSC 228, Human Physiology

EDF 417, Statistical Methods (or PSY 417, BSC 417, or MTH 225)

HS 365, Kinesiology

ESS 345, Exercise Physiology

ESS 375, Fitness Assessment and Exercise Prescription

FCS 210, Nutrition  
PSY 201, General Psychology

C. Athletic Training Core

HS 200. Comprehensive Medical Terminology (CT)  
HS 212, Practical and Emergency Techniques in Athletic Training  
HS 215, Introduction to Athletic Training  
HS 220, Personal Health I  
HS 222, First Aid  
HS 255, Clinical I  
HS 360, Clinical II  
HS 361, Clinical III  
HS 410, Organization and Administration in Athletic Training  
HS 440, Health Assessment for the Athletic Trainer  
HS 423, Orthopedic Assessment of the Upper Extremity for Athletic Trainers  
HS 424, Orthopedic Assessment of the Lower Extremity for Athletic Trainers  
HS 448, Therapeutic Modalities in Athletic Training  
HS 449, Therapeutic Exercise in Athletic Training  
HS 460, Clinical IV  
HS 479, Trends in Athletic Training (Capstone)  
HS 490, Clinical V

D. Areas of Emphasis

*Athletic Training Comprehensive* - Students will complete 18 hours of restricted electives in addition to the core courses. Restricted electives must be approved by advisor. Any of the following: BSC 120, 121, 250, 322, 320, 302, 418, 303, 438; CHM 203, 204, 211, 212, 217, 218; COUN 306, 455, 456, 475, 477, 370; PSY 408, 431, 312, 201, 202, 203, 204, 312, 323; SFT 235; ESS 220, 369, 430, 435, 442, 447 478 495H, 496H; HS 201, 221, 430. Or any declared minor approved by advisor.

*Athletic Training Pre-Physical Therapy* - Students will complete the following - PHY 201, 202, 203, 204; CHM 211, 217, 212, 218, PSY 311, 312; BSC 120 121—in addition to the core courses. Summer school will be required to complete this degree in four years. There are no electives available for students.

*Athletic Training Health Communication* - Students will complete the following - CMM 303, 374, 411, 474, 478, 479, 302, 308, 406—in addition to the core courses. There are no electives available for students.

*Athletic Training Pre-Physician's Assistant* - Students will complete the following - CHM 211, 217, 212, 218, 365; BSC 120 121, 302; PSY 311, 312 - in addition to core courses. Summer School will be required to complete this degree in four years. There are no electives available for students.

*Athletic Training Pre-Chiropractic* - Students will complete the following - PHY 201, 202; CHM 211, 217, 212, 218, 355, 356; BSC 120, 121; PSY 311, 312 - in addition to core courses. Summer School will be required to complete this degree in four years. There are no electives available for students.

*Athletic Training Pre-Med* - Students will complete the following - PHY 201, 202, 203, 204; CHM 211, 217, 212, 218, 355, 356, 361; BSC 120, 121, PSY 311, 312 - in addition to core courses. Summer School will be required to complete this degree in four years.

*Athletic Training Occupational Safety & Health* - Students will complete the following - PHY 201, 202, 203, 204; CHM 211, 217, 212, 218; SFT 235, 372, 373, 373L, 453, 499; PSY 311, 312 - in addition to the core courses. Summer School will be required to complete this degree in four years.

*Athletic Training Safety* - Students will complete the following - SFT 235, 372, 375, 378, 458, 460; PSY 311, 312 - in addition to the core courses.

*Additional Requirements*

- E. Core Curriculum
- F. Restricted electives (must be approved by an advisor)
- G. Minimum **40** UPPER DIVISION HOURS (300-400 Level)
- H. Electives to meet the minimum required **120 hours** for graduation
- I. Developmental courses will not count as part of the number required for graduation.
- J. BOC Exam registration

(continued)

- K. 2.7 overall GPA and C or better on all required coursework
- L. Completion of HS 490 with a B or better

## BIOMECHANICS

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.

### Course Requirements

Courses in this category MAY NOT be complete under the credit/non-credit option.

#### A. Core Curriculum

#### B. Biomechanics – Professional Core

BSC 227, BSC 228

ESS 345, ESS 346, ESS 369, ESS 375, ESS 401, ESS 410, ESS 435, ESS 442, ESS 443

DTS 314

HS 200, HS 201, HS 215, HS 220, HS 222, HS 365, HS 464, HS 465, HS 475, HS 490

MTH 225

SFT 235, SFT 373, SFT 373L

PHY 201, PHY 202, PHY 203, PHY 204

PSY 201, PSY 311, PSY 312

#### C. Areas of Emphasis

*Biomechanics Comprehensive* - Students will complete 3 hours of restricted electives in addition to the core courses. Restricted electives must be upper division. Restricted electives must be approved by advisor.

*Biomechanics Pre-Physical Therapy* - Students will complete the following –CHM 211,217, 212, 218; BSC 120 121– in addition to the core courses. Summer school will be required to complete this degree in four years. There are no electives available for students.

*Biomechanics Physics* - Students will complete the following – PHY 304, 314, 315, 350, and 405 in addition to the core courses. There are no electives available for students.

*Biomechanics Pre-Medical* - Students will complete the following –CHM 211, 217, 212, 218, 355, 356, 361; BSC 120, 121 in addition to core courses. Summer School will be required to complete this degree in four years. There are no electives available for students.

*Biomechanics Safety* - Students will complete the following – SFT 372, 375, 378, 458, and 460 – in addition to the core courses.

### Other Requirements

- D. 40 Upper Division Hours
- E. Graduation Requirement: Completion of HS 490 and 2.75 overall GPA



## EXERCISE SCIENCE

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 sources, 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 Exercise Physiology and Applied Exercise Physiology.

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

- An overall cumulative minimum GPA of 2.50.
- A C or better on all required coursework
- Admission to Marshall University
- Declared Exercise Science as a major, including preferred area of emphasis

Courses in this category MAY NOT be completed under the credit/non-credit option.

- A. Core Curriculum
- B. Exercise Science Professional Core ..... 79 hours
- BSC 227, Human Anatomy (4)
- BSC 228, Human Physiology (4)
- CMM 374, Introduction to Health Communication (3)
- DTS 201, Introductory Nutrition (4)
- ESS 345, Exercise Physiology (3)
- ESS 375, Fitness Assessment and Exercise Prescription (3)
- ESS 386, Adult Fitness (3)
- ESS 442, Principles of Strength and Conditioning (3)
- ESS 443, Principles of Strength and Conditioning Laboratory (1)
- ESS 478, Energy Sources, Body Composition and Performance (3)
- ESS 491, Internship (6 credit hours requirement approved by instructor,  
9 credit hours required for ACSM's Clinical Exercise Specialist certification)
- HS 200, Comprehensive Medical Terminology (3)
- HS 215, Introduction to Athletic Training (3)
- HS 220, Personal Health I (3)
- HS 221, Personal Health II (3)
- HS 222, First Aid (3)
- HS 365, Functional Biomechanics (3)
- PSY 201, General Psychology (3)
- PSY 223, Elementary Behavioral Statistics (3)
- PSY 312, Adult Development (3)
- PSY 440, Physiological Psychology (3)
- PHL 302, Applied Ethics (3)
- C. Area of Emphasis (Students must choose one) ..... 19-26
1. Clinical Exercise Physiology 26
- BSC 120, 121; CHM 211, 212, 217, 218; PHY 201, 202, 203, 204 or other approved.
2. Applied Exercise Physiology 19
- CH 203; CMM 207; MKT 340; MGT 320, 350, 354, 360; PHY 101, 101L or other approved.

### *Other Requirements*

- D. 40 Upper Division Hours
- E. Core Curriculum

(continued)

- G. Must be within 12 credit hours of graduation to register for internship. Must have completed HS 365, ESS 345, ESS 375, ESS 385, ESS 442, and ESS 478 prior to internship (ESS 491).
- H. Graduation Requirement: Completion of ESS 491 and 2.50 overall GPA

#### *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

Students who complete this undergraduate program and 500 hours (9 credit hours) of internship are eligible to take the ACSM certifications Clinical exercise specialist exam.

### **Minor in Exercise Science**

#### *Required:*

- HS 222, First Aid (3)
- DTS 210, Nutrition (3)
- ESS 211, Physiology of Fitness (3)

#### *Elective:* Select two courses from the following:

- HS 220, Personal Health (3)
- ESS 369, Motor Learning (3)
- HS 365, Functional Biomechanics (3)
- ESS 442, Principles of Strength and Conditioning (3)
- ESS 345, Exercise Physiology (3)

### **Minor in Health and Wellness**

#### *Required:*

- HS 200, Comprehensive Medical Terminology (3)
- ESS 220, Fitness and Wellness (3)
- DTS 210, Nutrition (3)
- PH 270, Global Health (3)
- PEL (one must be aerobic and one must be strength training)

### **PHYSICAL EDUCATION**

#### **with an Area of Emphasis in Sport Management and Marketing**

Courses in this category MAY NOT be completed under the credit/non-credit option.

The Physical Education program of the Division of Kinesiology, located in the College of Health Professions, offers a comprehensive, interdisciplinary human services option in physical education which affords students the possibility for emphasis in Sport Management and Marketing, leading to a Bachelor of Arts degree.

- A. Required Classes..... 24
- ESS 118, 218 (CT), 290, 345 or 442, 380, 401, 475
  - HS 201
- B. Elective Classes (Select 18 hours from the following)..... 18
- ESS 250, 301, 381, 390, 410, 416, 418, 425, 430, 440, 476
  - HS 222
  - PLS 201, 320, 340
  - ESS/PLS (3 hours with approval of Academic Advisor and Program Director)

- C. Business/Journalism Requirements..... 18  
     ACC 310  
     ECN 200  
     JMC 330  
     MGT 218, 320  
     MKT 340
- D. Students must **choose any 6 hours from one** of the following specialized tracks .....6  
     MARKETING/SPORTING GOODS RETAIL:  
         MGT 360, 422, 424  
         MKT 341, 344, 440, 442  
     MEDIA/COMMUNICATION/PUBLIC RELATIONS:  
         JMC 382, 383  
         MGT 422  
         MKT 341, 437, 442  
     OPERATIONS/FACILITIES MANAGEMENT:  
         MGT 420, 422, 423, 424  
         MKT 350, 442  
         Students choosing MGT 420 should have reasonable background in math..
- E. ESS 490 Internship, 3-8 hours (Must be senior standing and have completed ESS 290)
- F. General Electives (to meet the minimum hours required for graduation)
- G. 40 Upper Division Hours
- H. 120 Minimum Semester Hours
- J. Core Curriculum

### Minor in Sport Studies

A minor is available in Sport Studies as follows:

- Required courses.....9  
     ESS 118, 218, 301
- Select two courses from the following:.....6  
     ESS 401, 418, 430, 476, 496

### Minor in Sport Management & Marketing:

A minor is available in Sport Management & Marketing as follows:

- Required courses..... 9  
     ESS 250, 380, 410
- Select two courses from the following:..... 6  
     ESS 381, 401, 430, 416, 475

## MEDICAL IMAGING

**Dr. Rita Fisher, Program Director**  
[www.marshall.edu/cohp](http://www.marshall.edu/cohp)

### Program Director

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

### Clinical Coordinator

Karen Foster, M.S., RT (R)(ARRT)

### Faculty

Debby Moore, M.S., RT (R)(CT)(ARRT); Jeff Jobe, B.A., RT (R)(ARRT), Mindy Combs, M.S., RT (QM)(ARRT)

### Adjunct Faculty

Pam Hawn, M.S., RT(R)(CT)(ARRT); Katie Hancock, M.S., RT (R) CV; Katherine Porter, B.A., RT (R)CV)(ARRT)

(continued)

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. The SOMI is accredited by the Joint Review Committee on Education in Radiography (JRCERT) and recognized by the West Virginia Medical Imaging and Radiation Therapy Technology Board of Examiners. 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 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.

## 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.

## 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: BSC 227, BSC 228, PHY 101, 101L, CHM 203, MTH 121 (or higher)
- 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.

### PROGRAM REQUIREMENTS

Progression in the program depends upon:

- 1 Maintaining a minimum GPA of 2.50
- 2 Grade of C or better in all MI coursework
- 3 Selection of radiography or application to sonography track in Year 3; selections of advanced radiography modality track in Year 4.
- 4 Acceptable performance in the clinical setting. Any student found guilty of violation of clinical affiliate policy including but not limited to abuse toward a patient, staff member or physician, will be dismissed immediately.
- 5 Acceptable deportment and ethical behavior according to the ARRT Code of Ethics. All applicants must meet the professional guidelines established by the ARRT to sit for particular certification examinations. Students in violation of the ARRT Code of Ethics may face immediate dismissal.

## **MEDICAL IMAGING COURSE REQUIREMENTS**

Medical Imaging students must meet the following major requirements, in addition to those listed under the Core Curriculum and university requirements, and for their track in radiography or sonography:

BSC 227 Human Anatomy  
BSC 228 Human Physiology  
MTH 121 Algebra (or higher level of college algebra)  
PHY 101 and 101L Concepts of Physics, Statistics  
MI 201 Intro to Radiography  
MI 202 Patient Care in Imaging  
MI 204 Radiographic Anatomy  
MI 205 Imaging Procedures I  
MI 206 Clinical Practice I  
MI 207 Imaging Procedures II  
MI 208 Pharm & Drug Admin  
MI 209 Intro to Imaging Equipment  
MI 210 Clinical Practice II  
MI 211 Seminar in Imaging Science  
MI 212 Seminar in Imaging Science  
MI 402 Quality Management  
MI 403 Adv Practice in Medical Imaging  
MI 410 Research in Medical Imaging  
MI 411 Transcultural Healthcare

## **AREAS OF EMPHASIS (TRACKS) IN MEDICAL IMAGING**

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

### **Mammography**

MI 402, 403, 409, 410, 411, 414, statistics, ACLS certification

### **Medical Imaging Management Advanced Practice**

MI 402, 403, 409, 410, 411, 412, 413, statistics

### **CT/MRI Advanced Practice Track**

MI 402, 403, 404, 405 (or 3 hrs. 406), 409, 410, 411, 415, statistics, ACLS certification

### **Cardiovascular/Interventional Advanced Practice**

MI 402, 403, 407, 408, 409, 410, 411, statistics, ACLS certification

## **AREAS OF EMPHASIS (TRACKS) IN SONOGRAPHY\***

### **Abdominal/OB-GYN**

MI 312, MI 313, MI 314, MI 315, MI 316, MI 317, MI 318, MI 319, MI 311, MI 312, MI 403, MI 410, MI 411, MI 416, MI 417, MI 418, MI 419, MI 420, MI 421, MI 422

### **Vascular**

MI 312, MI 313, MI 314, MI 315, MI 316, MI 317, MI 318, MI 319, MI 311, MI 312, MI 403, MI 407 MI 410, MI 411, MI 418, MI 424

\*Additional courses to be added in 2014-2015.

## **MEDICAL IMAGING PROFESSIONAL-LEVEL COMPLETION PROGRAM**

Applicants with ARRT certification in Radiography, Nuclear Medicine or Radiation Therapy 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.

## **NURSING**

**Dr. Denise Landry, Chair**  
[www.marshall.edu/cohp](http://www.marshall.edu/cohp)

### **Professors**

Appleton, Landry, Prunty, Stotts, Walton

### **Associate Professors**

Cline, Greene, Imes, Ramsburg, Reilley, Turner, Pope, Welch, Widener

### **Assistant Professors**

Elkins

### **Clinical Faculty**

Booton, Gallion, Kovacs, Maynard

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 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, Nurse Midwifery, Nursing Education, 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)).

## **BACHELOR OF SCIENCE IN NURSING (B.S.N.) PROGRAM**

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 are eligible to take the registered nurse licensing examination (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, Health South Rehabilitation Hospital, King's Daughters Medical Center (Ashland, Ky.), Pleasant Valley Hospital (Point Pleasant, W.Va.), 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.

## **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 Nursing program once per year for the fall semester. Students 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 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.



- 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.

## **FOUR-YEAR B.S.N. 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.
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 Admissions Office 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 Admissions Office 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 four-year **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.
- Submit a reference from Dean/Director of nursing program.

### **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 Admissions Office 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.

## **FOUR-YEAR B.S.N. PROGRAM REQUIREMENTS**

Completion of the B.S.N. program requires the completion of 124 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. Permission is contingent on space availability.**

## **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.

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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. Basic 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. Permission is contingent on availability of space.
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 Nursing Undergraduate Handbook. 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, which is contingent on space availability.
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 basic 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 nursing course is taken.
10. Students must be admitted to the School of Nursing in order to enroll in Nursing classes.
11. Other policies are outlined in the Nursing Student Handbook.

## 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 BSN program, or upon admission to the RN to BSN program, students must obtain and maintain a current CPR card (Adult, Infant and Child). Failure to have a current CPR card on file in the nursing office will result in the student being declared ineligible to begin clinical (BSN students) or engage in any activities involving agencies other than the School of Nursing (RN to BSN 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 (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 Chairman 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. In order to proceed with clinicals, B.S.N. 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.

## B.S.N. COURSE REQUIREMENTS

B.S.N. majors must take these courses to complete the 4 year program. All core requirements in addition to those specifically listed below, must also be taken to fulfill university general education requirements. See core requirements listed at the beginning of College of Health Professions section of this catalog and at [www.marshall.edu/gened](http://www.marshall.edu/gened).

BSC 227 Human Anatomy  
BSC 228 Human Physiology\*  
BSC 250 Microbiology  
CHM 203 General Chemistry  
CMM 103 or 104H Intro to Communication\*  
DTS 314 Diet Therapy  
ENG 101 English Composition I\*  
ENG 201 English Composition II\*  
MTH 121 or higher Concepts of Mathematics\*  
Statistics (200 level or higher)  
NUR 219 Nursing Assessment I  
NUR 221 Foundations of Professional Nursing I  
NUR 222 Foundations of Professional Nursing II  
NUR 318 Family & Chronic Illness  
NUR 319 Nursing Assessment II  
NUR 321 OB/Maternity Nursing and Human Responses I  
NUR 322 Nursing and Human Responses II  
NUR 323 Nursing and Human Responses III  
NUR 324 Nursing and Human Responses IV  
NUR 325 Nursing and Human Responses V  
NUR 326 Nursing and Human Responses VII  
NUR 350 Pharmacology for Nurses  
NUR 400 Transcultural Health Care  
NUR 416 Introduction to Research for Evidence-Based Practice  
NUR 419 Professional Nursing  
NUR 421 Nursing and Human Responses VI  
NUR 422 Role Synthesis Practicum  
NUR 425 Capstone Seminar

\*General Education Core Requirement.

## 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 basic Bachelor of Science in Nursing program meet the education requirements to apply to take the National Council Licensure Examination for Registered Nurses (NCLEX-RN). "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 Admissions Office. Please contact that office for questions concerning transfer courses.

## 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 and wish to earn a baccalaureate degree in nursing. The **nursing coursework** may be completed in two semesters of full-time study or extended up to five years for part-time study. Part-time study is recommended for nurses who are working full time. 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.
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. Have successfully passed a background check and drug screen. Contact the school of Nursing at 304-696-6751 for more information.

### APPLICATION PROCESS: RN TO B.S.N. PROGRAM

1. Apply to Marshall University.
2. Apply to the School of Nursing RN to B.S.N. program; form online at [www.marshall.edu/cohp](http://www.marshall.edu/cohp).
3. Send official college transcripts to the Marshall University Admissions Office.
4. Complete background check and drug screen (see #4 under Admission Requirements) through [www.CertifiedBackground.com](http://www.CertifiedBackground.com).

### 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. Prior to beginning the second semester of coursework, a student must hold an unencumbered RN license.

All RN to B.S.N. students are required to meet Marshall University's general education curriculum. Information about the general education requirements is available at [www.marshall.edu/gened](http://www.marshall.edu/gened). In addition, RN to B.S.N. students must complete 3 hours of 200-level or higher statistics prior to taking nursing research (NUR 416). A total of 120 credit hours is needed to graduate. See below for numerical representation of program requirements:

- 120 credits (minimum required to graduate)
- 40 credits (nursing credits for RN licensure)
- 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 credits may be fulfilled by coursework from an associate degree or other college work. Transcripts will be evaluated upon admission to the university to determine if previous coursework meets the Marshall University general education requirements.

### Nursing Courses:

- NUR 305 Concepts in Professional Nursing
- NUR318 Family Nursing
- NUR 333 Health and Physical Assessment for the RN
- NUR 333L Health and Physical Assessment lab for the RN
- NUR 400 Transcultural Health Care
- NUR 410 Community Nursing for the RN
- NUR 416 Introduction to Research for Evidence Based Practice
- NUR 418 Contemporary Nursing
- NUR 427 Seminar for Professional Engagement in Nursing
- NUR 427L Professional Engagement in Nursing

### Sample Plan for those taking nursing courses along with core requirements

#### 1st Semester

Nursing 305.....	4 hours
Nursing 400.....	3 hours
Core/elective .....	3 hours
Core/elective .....	3 hours
<b>Total .....</b>	<b>13 hours</b>

#### 3rd Semester

Nursing 410.....	5 hours
Nursing 416.....	3 hours
Core/elective .....	3 hours
Core/elective .....	3 hours
<b>Total .....</b>	<b>14 hours</b>

#### 2nd Semester

Nursing 318.....	2 hours
Nursing 333.....	2 hours
Nursing 333L.....	1 hour
Statistics (200 level or higher).....	3 hours
Core/elective .....	3 hours
<b>Total.....</b>	<b>11 hours</b>

#### 4th Semester

Nursing 427.....	2 hours
Nursing 427L.....	3 hours
Nursing 418.....	3 hours
Core/elective .....	3 hours
Core/elective .....	3 hours
<b>Total.....</b>	<b>14 hours</b>

### Sample Plan for students who have met all prerequisite and university general education requirements

#### 1st Semester

Nur 305 .....	4 hours
Nur 318 .....	2 hours
Nur 333 .....	2 hours
Nur 333L .....	1 hour
Nur 400 .....	3 hours
<b>Total .....</b>	<b>12 hours</b>

#### 2nd Semester

Nur 416.....	3 hours
Nur 418.....	3 hours
Nur 410.....	5 hours
Nur 427.....	2 hours
Nur 427L.....	3 hours
<b>Total.....</b>	<b>16 hours</b>

## ASSOCIATE IN SCIENCE IN NURSING PROGRAM

[www.st-marys.org/education\\_training](http://www.st-marys.org/education_training)

Vice President of Schools of Nursing and Health Professions: Dr. Shelia M. Kyle

Professors: Debbie Bridgewater, Chryl Budd, Linda Peake, Kathy Tygart

Associate Professors: Allison Morrison

Assistant Professors: Leigh Allen, Nancy Brumfield, Amanda Burton, April Copley, Kimberly Damron, Sheila Foster, Carol Preece, Sara Marriott, Beverly McComas, Rebecca Porter, Tonya Taylor, Joseph Trader

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 71 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 registered nurse licensing examination.

### Accreditation

St. Mary's/Marshall University Cooperative Associate in Science in Nursing program is fully accredited by the West Virginia Board of Examiners for Registered Professional Nurses and the National League for Nursing Accrediting Commission (NLNAC). The NLNAC is located at 3343 Peachtree Road N.E., Suite 850; Atlanta, GA 30326; 404-975-5020; [www.nlnac.org](http://www.nlnac.org).

### ADMISSION REQUIREMENTS: ASSOCIATE IN SCIENCE IN NURSING PROGRAM

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)

(continued)

- 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.

**PROGRAM REQUIREMENTS: ASSOCIATE IN SCIENCE IN NURSING PROGRAM**

**Core Curriculum Requirements**

Students enrolled in the ASN program are exempt from the Core Curriculum requirements.

**General Education Courses**

BSC 227 Human Anatomy  
 BSC 228 Human Physiology  
 BSC 250 Microbiology  
 CHM 203 General Chemistry I  
 DTS 314 Nutrition/Diet Therapy  
 ENG 101 English Composition I  
 ENG 102 English Composition II  
 PSY 201 General Psychology  
 PSY 311 Child Psychology

**Nursing Courses**

NUR 101 Strategies for Success in ASN program  
 NUR 120 Fundamentals  
 NUR 220 Alterations I  
 NUR 225 Psy Nursing  
 NUR 230 Alterations II  
 NUR 235 Maternal-Child Nursing  
 NUR 241 Alterations III

**PUBLIC HEALTH**

Public Health is the science of protecting and improving the health of communities through education, promotion of healthy lifestyles, and research for disease and injury prevention. Public health professionals analyze the effect on health of genetics, personal choice, and the environment in order to develop programs that protect the health of your family and community. These individuals try to prevent problems from happening or re-occurring through implementing educational programs, developing policies, administering services, regulating health systems and some health professions, and conducting research, in contrast to clinical professionals, such as doctors and nurses, who focus primarily on treating individuals after



they become sick or injured. It is a field that is concerned with limiting health disparities and a large part of public health is the fight for health care equity, quality, and accessibility. Graduates of the program will be prepared to enter the exciting world of public health and to pursue graduate programs in public health or other health professions.

The Bachelor of Science in Public Health program, located in the College of Health Professions, offers a comprehensive choice of courses leading to acquiring knowledge in major fields of Public Health, which affords students the possibility to explore varied career and educational options.

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

- An overall cumulative minimum GPA of 2.50.
- A C or better on all required coursework
- Admission to Marshall University
- Declared Public Health as a major.

## REQUIREMENTS

Courses in this category MAY NOT be completed under the credit/non-credit option.

- A. Marshall Core Curriculum
- B. Public Health core courses - Public health majors must meet the following requirements in addition to the General Education courses:
  - DTS 210 - Nutrition
  - PH 101 - Introduction to Public Health
  - PH 105 - Introduction to Epidemiology
  - Principles of Management Information Systems
  - MTH 225 - Introductory Statistics
  - PH 220 - Social and Behavioral aspects of health
  - PH 270 - Global Health
  - PH 285 - Environmental Health
  - PH 305 - Foundations and Formulations of Public Health Policy
  - MGT 320 - Principles of Management
  - PH 350 - Research Methods in Public Health
  - PH 420 - Topics in Public Health
  - PH 430 - Monitoring and Evaluation
  - CMM 479 - Public Health Communication
  - PH 470 - Seminar on Public Health I
  - PH 471 - Seminar on Public Health II
  - PH 490 - Public Health Internship
- C. Public Health Electives  
Public Health major students need to successfully complete 13 courses (39 credit hours) through elective courses. Of these 13 courses, 9 courses need to be Public Health electives and the remaining 4 can be selected from an approved list of electives. Students must consult the faculty and advisors before choosing electives. All Public Health majors must have their schedules approved by their faculty advisors before they can register for classes, or for any schedule adjustment.
- D. 40 upper-division hours
- E. Public Health Internship.  
Must be within 12 credit hours of graduation to register for internship. Must have completed PH 101, PH 105, PH 270, and PH 285 prior to internship.

## PUBLIC HEALTH MINOR

A Public Health minor is available by completing the following requirements:

Required courses: PH 101; PH 105; PH 260; PH 270; PH 280.

# RESPIRATORY CARE

[www.st-marys.org/education\\_training](http://www.st-marys.org/education_training)

**Vice President of Schools of Nursing and Health Professions: Dr. Shelia M. Kyle**

**Program Director: Chuck Zuhars**

**Associate Professors: Chris Trotter, Keith Terry, Chuck Zuhars**

**Instructors: Brent Blevins, James Montgomery**

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](http://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. All applicants are encouraged to take the ACT and submit results to St. Mary's School of Respiratory Care. 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.

## RESPIRATORY CARE COURSE REQUIREMENTS

Respiratory care students must complete the following courses in addition to those listed in the Core Curriculum and university requirements:

BSC 227 Human Anatomy  
BSC 228 Human Physiology

BSC 250 Microbiology  
 CHM 203 General Chemistry  
 CLS 105 Medical Lab Terminology or HS 200 Comprehensive Medical Terminology  
 MTH 121 Concepts & Application  
 Statistics  
 RSP 100 Respiratory Pharmacology  
 RSP 101 Intro to Respiratory Care  
 RSP 102 and 102L Intro to Respiratory Care Proc. And lab  
 RSP 201 Pulmonary Pathophysiology  
 RSP 202 Mechanical Vent Tech & Mgt  
 RSP 203 Respiratory Internship I  
 RSP 204 Pulmonary Rehab/Home Care  
 RSP 205 Cardiopulmonary Diagnostics  
 RSP 206 Neonatal/Pediatric Resp. Care  
 RSP 207 Intro to Critical Care Mgt.  
 RSP 208 Seminar in Resp Care  
 RSP 209 Respiratory Internship II  
 RSP 210 Respiratory Internship III  
 RSP 211 Dynamics of Pulmonary  
 RSP 212 Acute/Chronic Respiratory Management  
 RSP 301 Intro to Respiratory Mgt.  
 RSP 302 Directed Readings/Seminar Critical Care  
 RSP 303 Respiratory Education  
 RSP 304 Advanced Neonatal & Peds  
 RSP 307 Advanced Techniques Adult Critical Care  
 RSP 308 Respiratory Management and Performance Improvement  
 RSP 401 Intro to Sleep Disorders  
 RSP 402 Trends & Issues in Respiratory Care  
 RSP 403 Respiratory Care Research  
 RSP 404 Advance Respiratory Care Practicum  
 RSP 420 Capstone in Respiratory Care

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

## **RRT to B.S.R.C. TECHNOLOGY ENHANCED PROGRAM**

The Marshall University/St. Mary's School of Respiratory Care is planning to offer an RRT to BSRC program for registered respiratory therapists who have diplomas or associate degrees in respiratory care and wish to earn a baccalaureate degree. We expect this program to be available beginning fall 2014. 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**

**Jo Dee Gottlieb, Program Director**  
[www.marshall.edu/cohp](http://www.marshall.edu/cohp)

### **Professors**

Carter, Gottlieb, Harmon

### **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.

## Requirements

Social Work students complete the general and specific education requirements as listed in the section that follows. 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 advisor for recommended electives.

The Social Work department does not grant academic credit, course waivers, or field practicum credit for life experience or previous work experience.

Students should contact the Social Work department faculty for advisement as early as possible.

## Accreditation Status

The BSW Program is accredited by the Council on Social Work Education.

## General Requirements

1. Candidates for graduation must have a Grade Point Average of 2.0 or higher on all work attempted at Marshall University, a 2.0 average in prerequisite courses (ENG 101, 102, BSC 105 or anatomy course, PSC 202, ECN 250, SOC 200, PSY 201, Math) and a GPA of 2.5 or higher in Social Work courses.
2. SWK 203 must be completed with a C or above.
3. Only SWK 370 and SWK 473 are graded under the credit/no credit option.
5. All social work majors must have their schedules approved by their faculty advisors before they register for classes, or for any schedule adjustment.

## SOCIAL WORK COURSE REQUIREMENTS

Social Work majors must meet the following requirements in addition to the core and university requirements listed at the beginning of the College of Health Professions section:

BSC 105 or Human Anatomy  
CMM 103  
ECN 250 Principles of Microeconomics  
PSC 202 American State & Government Politics  
PSY 201 General Psychology  
SOC 200  
SWK 203 Intro to Social Work  
SWK 310 Human Behavior I  
SWK 312 Human Behavior II  
SWK 320 Social Work Practice I  
SWK 322 Social Work Practice II  
SWK 330 Social Welfare Issues in Appalachia  
SWK 332 Social Welfare Policy & Legislation  
SWK 340 Social Work Research  
SWK 370 Social Work Practicum I  
SWK 473 Social Work Practicum II  
SWK 475 Social Work Capstone

## Minor Program

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:

<i>Requirement</i>	<i>Credit Hours</i>
SWK 203, Introduction to Social Work .....	3
SWK 310, Human Behavior and Social Environment I .....	3
SWK 330, Social Welfare Issues in Appalachia .....	3
SWK 332, Social Welfare Policy and Legislation.....	3
SWK 340, Social Work Research .....	3



# Honors College

**Dr. Ronald J. Bieniek, Dean**  
**Dr. Nicki LoCascio, Associate Dean**  
**Dr. Susan Gilpin, Associate Dean**  
*[www.marshall.edu/honors](http://www.marshall.edu/honors)*  
*[honorscollege@marshall.edu](mailto:honorscollege@marshall.edu)*

## MISSION OF THE COLLEGE

The Honors College at Marshall University fosters academic excellence in a community of learners whose undergraduate education is enhanced through innovative teaching and learning, an engaging interdisciplinary curriculum, creative and critical inquiry with talented faculty, and diverse leadership and service opportunities.

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:

- demonstrate the flexible thinking required in integrative learning environments
- appreciate the challenges and rewards of interdisciplinary learning
- learn both independently and collaboratively
- demonstrate leadership in a variety of settings
- recognize their obligation to give back to the communities to which they belong

The college, housed in the John R. Hall Center for Academic Excellence [Old Main 230], encompasses university honors, the John Marshall Scholars program, the Society of Yeager Scholars program and the Hedrick Scholars. In addition, the college sponsors the Honors College Student Association, which offers opportunities to plan and participate in honors social activities and community service projects.

## ADMISSION TO THE COLLEGE

Incoming first-year students with a minimum ACT composite of 26 (or SAT equivalent of 1170) and an unweighted GPA of 3.5 or above are invited to join the Honors College. Students currently enrolled at Marshall with a minimum 3.5 GPA in each of their first two semesters and an ACT composite of 24 will be invited to join the college before their third semester of study. Transfer students with a minimum 3.5 GPA will be admitted on a case-by-case basis.

## ACADEMIC POLICIES

1. To remain in good standing with the college, students must maintain a cumulative GPA of 3.3.
2. Students in the Honors College are required to meet with Honors College staff for advising each semester until the program requirements have been met.

## GRADUATION IN HONORS

Students who wish to graduate from the Honors College must complete 24 semester 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, 3 credits
- HON 200: Second Year Seminar, 3 credits
- At least two interdisciplinary honors seminars, 3 credits each
- Any combination of department-offered honors courses or HON courses

The official transcript will state that the student has completed the requirements of the Honors College.

## PROGRAMS

### UNIVERSITY HONORS

The university honors curriculum consists of several separate but interconnected components:

1. Entering freshmen register for FYS 100H: **First Year Seminar**.
2. All second-year students will take HON 200, **the Second Year Seminar** in leadership, ethics and civic engagement.
3. Each semester University Honors provides several small, **interdisciplinary seminars** for upperclass students taught by professors from different disciplines. The 3-credit-hour 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 versions of regular courses** that can be used to complete University honors. **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 regular course to make it an honors course and to receive honors credit. The student contracts with an instructor, 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 greater depth and breadth in grappling with the course materials, higher-level cognitive processes and products, and extra engagement with the professor. H-option instructions and forms are available on the Honors College website.
6. **Other Honors Experiences**

The college strongly encourages honors students to **study abroad**. To that end, a study abroad academic experience may be considered the equivalent of **one** 3-credit honors experience.

Participation on the staff of the Honors College student newsletter (HON 484) or on the Steering Committee of the Honors College Student Association earns honors credit.

Disciplines may offer their majors the option of pursuing **departmental honors**. Currently, this option is available in both Anthropology and Sociology at the invitation of department faculty. Please see the Sociology and Anthropology departmental listing in the College of Liberal Arts section for further information on departmental honors in those disciplines.

### SCHOLARSHIPS

Only students admitted to the Honors College as incoming freshmen are eligible for the following merit-based scholarships: West Virginia residents receive either the John Marshall or Mary Willis Marshall Scholarship, Metro residents the Board of Governors Scholarship, and non-residents the John Laidley Scholarship. For additional information, please see the Student Financial Assistance section of this catalog and visit the Honors College website. Renewal of merit scholarships requires maintenance of a 3.20 GPA in the first year and a 3.50 GPA thereafter.

### SOCIETY OF YEAGER SCHOLARS

The Society of Yeager Scholars 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 Society of Yeager Scholars 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. Students accepted into the society will receive tuition, fees, room and board, a textbook allowance, a personal computer, a stipend, and education-related study abroad expenses.



## Curriculum

The Yeager curriculum includes:

1. A core of integrated, interdisciplinary seminars, one each semester for a scholar's first two years.
2. The development of proficiency in modern language. For those scholars who have completed at least two years of high school foreign language coursework, and who wish to continue study in that language, a minimum of 12 credit hours will be required. For those scholars who have no foreign language experience, or who decide to start another language, a minimum of 18 credit hours will be required.
3. A summer study program at the University of Oxford [United Kingdom] after completion of four semesters at Marshall University.
4. Additional courses to round out the Yeager core curriculum of a scholar's program:
  - ENG 200H, a 3-credit course
  - Literature: Two 3-credit courses for a total of 6 credit hours.
  - Social Sciences: Two 3-credit courses chosen from two different disciplines, for a total of 6 credit hours.
  - Oral Communication: One 3-credit course, CMM 104H.
  - Mathematics: At least three credits.
  - Natural and Physical Sciences: At least eight credits chosen from the following:
    - Biological Sciences
    - Geology
    - Chemistry
    - Physics
    - Integrated Science and Technology

The Yeager core curriculum will total 54-62 credit-hours. Some of these credits may also apply to the student's major.

5. A senior project developed through independent study with a mentor professor earns 2 credits.
6. In order to remain in the Yeager Scholar program, a student must maintain a cumulative 3.50 GPA.

Upon completion of the Yeager curriculum, scholars who have taken a minimum of three additional credits of honors experience will graduate in University Honors.



# College of Information Technology and Engineering

**Dr. Wael Zatar, Dean**  
**Ms. Elizabeth E. Hanrahan, Associate Dean**  
*www.marshall.edu/cite*  
*cite@marshall.edu*

**Art and Joan Weisberg Division of Engineering**  
**Dr. Asad Salem, Chair** (*salema@marshall.edu*)

**Professors**

Begley, Dulin, Larsen, McCormick, Pierson, Salem, Zatar

**Associate Professor**

Chen, Nichols, Wait

**Assistant Professor**

Hijazi, Mostafa

**Art and Joan Weisberg Division of Computer Science**  
**Dr. Venkat Gudivada, Interim Chair** (*gudivada@marshall.edu*)

**Professors**

Chaudri, Gudivada

**Associate Professor**

Biros, Han, Thompson

**Assistant Professor**

Wahjudi

**Division of Applied Science and Technology**  
**Dr. Allan Stern, Chair** (*stern@marshall.edu*)

**Professors**

Stern, Szwilski

**Associate Professor**

Christofero, McIntosh, Roudebush, Simonton

**Assistant Professor**

Liu

## MISSION OF THE COLLEGE

CITE will be a recognized leader in practice-oriented teaching and applied research.

CITE is committed to serve the lifelong educational needs of students, new graduates, working professionals, and employees.

CITE builds on combined traditions of student-focused education, entrepreneurship, and funded research and service emphasis. CITE provides education when and where needed, incorporating technology-enhanced methods, by full-time,

dedicated faculty complemented by expert adjunct faculty from industry and government. CITE has offices on both the Huntington and South Charleston campuses.

In addition to the undergraduate programs described in this catalog, CITE offers graduate programs and professional education in engineering, environmental science, information systems, safety, and technology management. The *Graduate Catalog* contains further information.

## PROGRAMS

The College of Information Technology and Engineering offers the following programs:

1. Bachelor of Science in Computer Science
2. Pre-Computer Science
3. Bachelor of Science in Engineering (B.S.E.) degree, emphasis in Civil Engineering
4. Engineering transfer program
5. Pre-Engineering
6. Bachelor of Science in Safety Technology
7. Master of Science in Engineering with emphases in Engineering Management, Environmental Engineering, or Transportation and Infrastructure
11. Master of Science in Environmental Science
12. Master of Science in Information Systems
13. Master of Science in Safety with emphases in Occupational Safety and Health or Mine Safety
14. Master of Science in Technology Management with emphases in Environmental Management, Information Security, Information Technology, Manufacturing Systems, or Transportation Systems and Technologies

## ADMISSION REQUIREMENTS

CITE 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 - 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 19 and minimum composite ACT of 19 (Math SAT of 460; composite SAT of 900)
- CITE 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 CITE Undecided students to see their advisors before they register each semester. These students are also required to take UNI 102, "Strategies for Academic Success."

### Degree Evaluation (Junior Level)

After achieving Junior status, successfully completing a minimum of 58 hours, students are required to schedule an appointment for a degree evaluation with the Associate Dean in the College Office. This evaluation will show students what course requirements have been completed and exactly what requirements remain. The evaluation also will help ensure that students are making satisfactory progress towards graduation. Students must have completed the evaluation in order to register for the next semester of courses. Engineering Transfer students are exempt from this requirement.

## 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 CITE 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.

## 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, 58 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.

## COMPUTER SCIENCE

**Dr. Venkat Gudivada, Interim Division Chair**  
*gudivada@marshall.edu*

The Bachelor of Science in Computer Science program prepares students for careers in computer science through learning based on practice and grounded in theory. Students learn how to analyze, design, build, test, and deploy computer based systems by making technical trade offs between performance, scalability, availability, reliability, security, maintainability, cost and societal impact. Marshall's computing facilities are state-of-the-art and readily available to students.

## Admission and Transfer Criteria

Minimum requirements for admission into the Computer Science major for first-time freshmen are

- an ACT composite score of 21 (composite SAT of 980) and
- an ACT mathematics score of 24 (Math SAT of 560).

Minimum requirements for admission into the Computer Science major for transfer students, whether from within Marshall University or from another institution, are:

- 15 earned semester credit hours of college-level coursework,
- an overall Grade Point Average of at least 2.0 in all college-level coursework,
- completion of ENG 101 (or equivalent) with a grade of C, and
- completion of MTH 132, or MTH 127/130 and MTH 132 (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 127/130 and MTH 132.

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.

## B.S. Degree Requirements

The B.S. degree program requires 120 credit hours of coursework. Students are advised to pay careful attention to Core Curriculum requirements; please consult an advisor.

### 1. Core Curriculum

Core I

FYS 100 or FYS 100H

Two Critical Thinking courses (CT) ..... 6 hrs.  
(3 hrs. met in major)

## Core II

ENG 101 and ENG 201 .....	6 hrs.
CMM 103 or CMM 207 .....	3 hrs.
Math (requirement met in major)	
Physical or Natural Science (requirement met in major)	
Social Science .....	3 hrs.
Humanities .....	3 hrs.
(CL, ENG, PHL, or RST labeled Humanities)	
Fine Arts .....	3 hrs.
(ART 112, MUS 142, MUS 210, or THE 112)	

### *Additional University Requirements*

Writing Intensive courses (W) .....	6 hrs.
Multicultural (M) or International (I) course .....	3 hrs.

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

Transfers with 26 or more credit hours must complete one CT course but are exempt from the remaining Core I requirements. Core II can be completed with Marshall or transfer courses.

## 2. Mathematics

The following courses are required:

MTH 220: Discrete Structures  
MTH 229: Calculus with Analytic Geometry I (CT) (5 CH)  
MTH 230: Calculus with Analytic Geometry II (4 CH)  
MTH 329: Elementary Linear Algebra  
MTH 345: Applied Probability and Statistics

## 3. Science

Any three courses with labs from the following science areas:

BSC 120: Principles of Biology I (4 CH) or above  
CHM 211: Principles of Chemistry I and  
CHM 217: Principles of Chemistry Lab I (5 CH total) or above  
GLY 200: Physical Geology and  
GLY 210L: Earth Materials Lab (4 CH total) or above  
PHY 201 General Physics I (3 CH) or PHY 211: Principles of Physics I (4 CH)  
and PHY 202: Conceptual Physics Lab 1 (1 CH) or above

## 4. Business and Engineering

The following courses are required:

ENG 354: Scientific and Technical Writing  
ENGR 221: Engineering Economy  
MGT 320: Principles of Management I

## 5. Computer Science Core

The following courses are required (professional ethics and social responsibility topics are discussed in CS 490):

CS 110: Computer Science I  
CS 120: Computer Science II  
CS 210: Data Structures and Algorithms  
CS 215: Advanced Data Structures and Algorithms  
CS 300: Programming Languages  
CS 305: Software Engineering I

(continued)

CS 310: Software Engineering II  
CS 320: Internetworking  
CS 330: Operating Systems  
CS 340: Cyber Security  
CS 360: Automata and Formal Languages  
CS 402: Computer Architecture  
CS 410: Database Engineering  
CS 490: Senior Project I (capstone)

## 6. Computer Science Electives

Choose two of the following electives:

CS 315: Software Quality Assurance  
CS 370: Computer Graphics  
CS 404: High Performance Computing  
CS 405: Computing for Bioinformatics  
CS 420: Distributed Systems  
CS 425: Computational Intelligence  
CS 440: Image Processing  
CS 455: Systems Engineering  
CS 460: Multimedia Information Retrieval  
CS 475: Internship (3-12 CH; only a maximum of 3 hrs. can be used as a CS elective)  
CS 480-483: Special Topics

## 7. Free Electives

Students may choose additional CS courses, liberal arts courses, courses towards a minor, or any other courses according to personal preference.

A minimum of 120 credit hours is required for graduation.

## Minor in Computer Science

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: CS 110, CS 120, CS 210, and any two CS courses at the 300 or 400 level.

## 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 (or equivalent) with a grade of C;
- Completion of MTH 127/130 College Algebra (or equivalent) grade of C;
- MTH 132 Pre-Calculus (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.

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)

### First Semester

<i>Course</i>	<i>Course Title</i>	<i>Credits</i>
ENG 101	English Composition I	3
FYS 100	First Year Seminar	3
MTH 127	College Algebra– Expanded Version	5
or MTH 130	or College Algebra	or 3
	Core II Course	3
UNI 102	Strategies for Academic Success	1
	<b>Total Credits:</b>	<b>13-15</b>

\*Placement in MTH 127/130 is based on ACT/SAT math scores.

### Second Semester

<i>Course</i>	<i>Course Title</i>	<i>Credits</i>
	Humanities	3
MTH 132	Pre-Calculus	5
CS 110	Computer Science I	3
	Core II Course	3
	Core II Course	3
	<b>Total Credits:</b>	<b>17</b>

## ENGINEERING (B.S.E.)

Dr. Asad Salem, Division Chair

[salema@marshall.edu](mailto:salema@marshall.edu)

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

1. BSE graduates will be recognized for their success in designing engineering systems that promote the health, safety, and welfare of the public.
2. BSE 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. BSE graduates will practice in specific areas of engineering that are consistent with the needs of the region served by Marshall University.

As the sample curriculum shown on the next page illustrates, the B.S.E. program has been designed with these goals in mind by providing a balanced mix of foundational mathematics and science courses (27%), core engineering courses (27%), and engineering emphasis courses (24%). Technical elective courses provide students an opportunity to get additional specialization.

Most engineering courses at Marshall are taught by faculty who are registered Professional Engineers with real-world engineering experience as well as extensive experience in engineering education.

### 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 127/130 College Algebra and MTH 132 Pre-Calculus.

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 MTH127/130 College Algebra and MTH132 Pre-Calculus.

### Graduation Requirements

The B.S.E. degree program requires a minimum of 128 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 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, Pre-Calculus. Such students will likely need an extra semester or summer term to satisfy BSE requirements.

## **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 and 216, 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.

## **B.S.E. Degree Requirements**

### **1. Core Curriculum**

Core I (9 CH)

FYS 100 or FYS 100H

\*Two Critical Thinking courses (CT) (6 CH) (3 hrs. CT met in major)

Core II

Composition: ENG 101 and ENG 201 (6 CH)

Communication: CMM 103 or CMM 207 (3 CH)

Math (requirement met in major)

Physical or Natural Science (requirement met in major)

Social Science (3 CH)

Humanities (3 CH)

(CL, ENG, PHL, or RST labeled Humanities)

Fine Arts (3 CH)

#### *Additional University Requirements*

\*Writing Intensive courses (W) (6 Hrs.)

\*Multicultural (M) or International (I) course (3 hrs.)

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

Transfers with 26 or more credit hours must complete one CT course but are exempt from the remaining Core I requirements. Core II can be completed with Marshall or transfer courses.

\*For BSE majors, two courses must also be designated as Critical Thinking courses (CT); two courses must also be designated as Writing Intensive courses (W); one course must also be designated as Multicultural (M) or International (I) course.

Courses designated by a (CE) are Civil Emphasis courses

### **2. Mathematics**

MTH 229 Calculus with Analytic Geometry I (CT) (5 CH)

MTH 230 Calculus with Analytic Geometry II (4 CH)

MTH 231 Calculus with Analytic Geometry III (4 CH)

MTH 335 Differential Equations (4 CH)

MTH 345 Applied Probability and Statistics (3 CH)

### **3. Science**

CHM 211 Principles of Chemistry I and CHM 217: Principles of Chemistry Lab I (5 CH total)

CHM 212 Principles of Chemistry II and CHM 218: Principles of Chemistry Lab II (5 CH total)(CE)

GLY 200 Physical Geology (3 CH) (CE)

PHY 211 Principles of Physics I (4 CH) and PHY 202: Laboratory Methods in Physics I (1 CH)

#### **4. Engineering**

ENGR 102 Introduction to CAD (1 CH)  
ENGR 103 Freshman Engineering Seminar (1 CH)  
ENGR 104 The Engineering Profession (1 CH)  
ENGR 111 Engineering Computations (3 CH)  
ENGR 201 Circuits (4 CH)  
ENGR 213 Statics (3 CH)  
ENGR 214 Dynamics (3 CH)  
ENGR 216 Mechanics of Deformable Bodies (3 CH)  
ENGR 219 Thermodynamics (3 CH)  
ENGR 221 Engineering Economy (3 CH)  
ENGR 318 Fluid Mechanics (3 CH)  
ENGR 451 Introduction to Project Management (3 CH)  
ENGR 452 Senior Engineering Seminar (1 CH)  
ENGR 453 Senior Design Projects (3 CH)

#### **5. Civil Emphasis**

CE 241 Geomatics (4 CH) (CE)  
CE 312 Structural Analysis (3 CH) (CE)  
CE 321 Civil Engineer Materials (3 CH) (CE)  
CE 322 Soil Mechanics (3 CH) (CE)  
CE 331 Hydraulic Engineering (4 CH) (CE)  
CE 342 Transportation Engineering (3 CH) (CE)  
CE 413 Reinforced Concrete (3 CH) (CE)  
CE 432 Water/Wastewater Treatment (4 CH) (CE)

#### **6. Senior Design, Design Elective, and Technical Electives**

To be eligible to take the capstone design course (ENGR 453), students must have senior standing in engineering which is defined as follows:

- Students in the CE Emphasis must have completed four of the following six courses: CE 312, CE 321, CE 322, CE 331, CE 342, AND CE 413.

The CE design elective must be taken from the following courses: CE 414 Steel Design, CE 425 Foundation Design, CE 443 Highway Design, or CE 434 Advanced Water and Wastewater Treatment.

In general, two (2) technical electives must be taken from the following approved list of courses. However, it may be possible to use other courses with approval of the student's advisor and a majority of the engineering faculty:

- Any 300-level or 400-level engineering (ENGR or CE) course.
- Chemistry (CHM): 307, 327, 345, 355, 356, 357, 358, 361, 365, 366
- Geology (GLY): 313, 314, 325, 427, 455, 456, 457
- Mathematics (MTH): 329 (or 331), 415, 443

## **ENGINEERING TRANSFER**

**Dr. Asad Salem, Division Chair**  
***salema@marshall.edu***

Marshall University offers an engineering transfer program that consists of three to four semesters of a professional engineering curriculum, including basic mathematics, science, and core engineering courses common to most undergraduate engineering programs. In order to complete the final courses of a specific engineering degree students must transfer to another institution (usually West Virginia University or West Virginia University Institute of Technology).

To qualify for admission a minimum Math ACT score of 24 (Math SAT of 560) and a composite score of 21 (SAT composite of 980) is required. However, students 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 127/130 College Algebra, (or equivalents) grade of C
- MTH 132 Pre-Calculus, (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.

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 before CHM 211.

### First Year

<i>First Semester</i>	<i>Hrs.</i>	<i>Second Semester</i>	<i>Hrs.</i>
MTH 229, Calculus I .....	5	MTH 230, Calculus II .....	4
ENG 101, English Composition.....	3	ENGR 111, CS For Engineers I.....	3
CHM 211, Chemistry I.....	3	CHM 212 & 218, Chemistry II* or	
CHM 217, Chem. Lab. I.....	2	ENGR 102, Intro to CAD.....	1
ENGR 103 Freshman Engineering Seminar .....	1	PHY 211/202.....	5
ENGR 104 The Engineering Profession .....	<u>1</u>	Humanities/Social Science.....	<u>3</u>
	15		16

### Second Year

<i>First Semester</i>	<i>Hrs.</i>	<i>Second Semester</i>	<i>Hrs.</i>
MTH 231, Calculus III .....	4	MTH 335, Differential Equations .....	4
ENGR 213, Statics .....	3	ENGR 214, Dynamics .....	3
PHY 211, Physics I.....	4	PHY 213, Physics II.....	4
PHY 202 or 212, Physics Lab .....	1	PHY 204 or 214, Physics Lab .....	1
ENGR 201, Circuits I* .....	4	ENGR 221 Engineering Economy*	
ENG 201 or		or ENGR 219 Thermodynamics*	
or ENGR 221, Engineering Economy* .....	<u>3</u>	ENGR 216 Mech. of Materials*	
	19	or ENGR 202, Circuits II* .....	<u>4</u>
			18-19

\* See advisor; course not required by all disciplines.

## 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:

Calculus .....	12 hrs.
Chemistry .....	8 hrs.
Physics .....	8 hrs.
English .....	6 hrs.
Statics .....	3 hrs.
Computer Programming .....	2 hrs.
Graphics .....	2 hrs.

- 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.

## 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 127/130 College Algebra (or equivalent) with a grade of C
- MTH 132 Pre-Calculus (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 requirements listed above 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.

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)

#### ***First Semester***

<i>Course</i>	<i>Course Title</i>	<i>Credits</i>	
ENG 101	English Composition I	3	R
ENGR 103	Freshman Engineering Seminar	1	R
MTH 127 or MTH 130*	College Algebra- Expanded Version or College Algebra	5 or 3	R
SFT 235	Intro to Safety (Int'l)	3	A
FYS 100	First Year Seminar	3	A
UNI 102	Strategies for Academic Success	1	R
<b>TOTAL CREDITS:</b>		<b>14-16</b>	

\*Placement in MTH 127/130 is based on ACT/SAT math scores.

(continued)

## **Second Semester**

<i>Course</i>	<i>Course Title</i>	<i>Credits</i>	
MTH 132	Pre-Calculus	5	R
CHM 111	Foundations of Chemistry	3	R
	Option: Core II Course (CT)	3	A
	Fine Arts	3	A
	Communication Course	3	A
	<b>TOTAL CREDITS:</b>	<b>17</b>	

## **SAFETY TECHNOLOGY**

**Dr. D. Allan Stern, Division Chair**

***stern@marshall.edu***

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.

The Bachelor of Science degree in Safety Technology 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 and follows the recommendations of the Applied Science Accreditation Commission/Accreditation Board for Engineering & Technology (ASAC/ABET) for the preparation of Safety Professionals.

To qualify for admission to the B.S. in Safety Technology degree program a minimum Math ACT of 19 and minimum composite ACT of 19. (MTH SAT 460; composite SAT 900) 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.

In May 2006, the Board of Certified Safety Professionals ruled that all ABET-accredited schools may now issue to graduating seniors the designation of GSP (Graduate Safety Practitioner). Students will receive an application packet from the department to fill out and it will be sent to the BCSP office. A certificate will be handed out to the students at semester's end. 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).

### **Requirements for B.S. Degree, 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 I 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](http://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.

### **Requirements for B.S. Degree**

Pre-Pharmacy option courses that are in addition to requirements are designated by an asterisk (\*).

#### **1. Core Curriculum**

Core I (9 Hrs.)

FYS 100 or FYS 100H First year Seminar (3 Hrs.)

Two Critical Thinking courses (CT) (6 Hrs.)

Core II

ENG 101 and ENG 201 (6 hrs)

CMM 103 or CMM 207 (3 hrs)

Math (requirement met in major)



Physical or Natural Science (requirement met in major)

Social Science (Requirement met in major)

Humanities (3 Hrs.)

CL, ENG, PHL, or RST labeled Humanities

Fine Arts (3 Hrs.)

ART 112, MUS 142, or THE 112

*Additional University Requirements*

Writing Intensive courses (W) (6 Hrs.)

Multicultural or International course (Requirement met in major: SFT 235 is an International course) 3 Hrs.

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

Transfers with 26 or more credit hours must complete one CT course but are exempt from the remaining Core I requirements. Core II can be completed with Marshall or transfer courses.

## 2. Scientific and Technical Writing

ENG 354 Scientific and Technical Writing (3 Hrs.)

## 3. Mathematics

Note: 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.

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

1. Math 127 (5 hrs.), and Math 122 or MTH 132 Pre-Calculus (3 hrs.); 8-10 hours total

OR

*21 or higher Math ACT (Math SAT of 500)*

2. Math 130 (3 hrs), and Math 122 or MTH 132 Pre-Calculus (3 hrs.); 6-8 Hrs total

Math 140\*\* or Math 229 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.

OR

*24 or higher Math ACT (Math SAT of 560)*

3. Math 132 or higher level course such as MTH 229 or 229H

4. \*MTH 229 Calculus I

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.

## 4. 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 Chemistry Lab I 2

CHM 212, Principles of Chemistry II 3

CHM 218, Principles of Chemistry Lab II 2

CHM 204, General Chemistry II 3

(CHM 203 is not required for Safety majors who have completed CHM 211)

Or \*CHM 355, Organic Chemistry I (3)

\*CHM 356 Organic Chemistry II (3)

\*CHM 361 Intro Organic Chemistry Lab (1)

PHY 201, General Physics I 3

PHY 202, General Physics Lab I 1

PHY 203, General Physics II 3

PHY 204, General Physics Lab II 1

Biology 104 or \*Biology 120 4

\*BSC 121, Principles of Biology II (4)

(continued)

## 5. Management:

Student should choose ONE course from the following:

MGT 320, Principles of Management  
ACC 215, Principles of Accounting

## 6. Statistics Courses

Student should choose ONE course from the following:

MTH 225, Introductory Statistics  
PSY 223, El. Behavioral Statistics  
MGT 218, Business Statistics

## 7. Psychology Courses

PSY 201, General Psychology  
PSY 420, Introduction to Industrial  
Organizational Psychology or PSY 418, Psychology of Personnel

## 8. Anatomy/Physiology

HS 201, Introduction to Applied Anatomy & Physiology  
Or \* BSC 227, Human Anatomy (4)  
\*BSC 228 Human Physiology (4)

## 9. Engineering-Related Course

ENGR 221, Engineering Economy

## 10. Professional Safety Core

SFT 235, Introduction to Safety	3
SFT 340, Industrial Fire Prevention	3
SFT 372, Safety & Industrial Technology	3
SFT 373, Principles of Ergonomics	3
SFT 373L, Principles of Ergonomics Lab	1
SFT 375, Construction Safety I	3
SFT 454, Industrial Environmental Protection	3
SFT 454L, Industrial Environmental Protection Lab	2
SFT 460, Safety Training Methods	3
SFT 465, Incident Investigation Techniques	3
SFT 489, Process Safety Management	3
SFT 498, Environmental Safety and Health Legislation	3
SFT 499, Organization, Administration and Supervision of Safety Programs	3
SFT 490 (Capstone), Internship	3

## 11. Occupational Safety Electives (student must select 6 hours)

SFT 378, Safety Evaluation  
SFT 453, International Safety  
SFT 458, Hospital Safety  
SFT 480-483, Special Topics  
SFT 485-488, Independent Study  
SFT 491-494, Workshop  
SFT 497, Occ. Safety and Health  
\*BSC 250, Microbiology and Human Disease (4)

A minimum of 120 hours is required for graduation.

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

### **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.

SFT 235, Introduction to Safety.....	3
SFT 372, Safety and Industrial Technology.....	3
SFT 373, Principles of Ergonomics.....	3
SFT 373L, Principles of Ergonomics Lab.....	1
SFT 499, Organization, Administration, and Supervision of Safety Programs .....	3
One additional SFT course.....	<u>3</u>
<b>Total.....</b>	<b>16</b>

### **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.

SFT 235, Introduction to Safety.....	3
SFT 372, Safety and Industrial Technology.....	3
SFT 375, Construction Safety I.....	3
Two additional SFT courses .....	<u>6</u>
<b>Total.....</b>	<b>15</b>



# College of Liberal Arts

**Dr. Robert Bookwalter, Interim Dean**

*[www.marshall.edu/cola](http://www.marshall.edu/cola)*

*[cola@marshall.edu](mailto:cola@marshall.edu)*

## MISSION OF THE COLLEGE

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.

## DEGREE PROGRAMS

The College of Liberal Arts offers four-year degrees in these majors:

Anthropology

Classical Language–Latin

Classics

Communication Studies

Health Communication

Interpersonal Communication

Organizational Communication

Public Communication

Economics - B.A.

English

Creative Writing

Literature

Generalist

French

Geography - B.A. or B.S.

German

History

International Affairs

Japanese

Philosophy

Political Science

Psychology

Religious Studies

Sociology

Spanish

## ADMISSION TO THE COLLEGE

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 107.

### 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. If you have not declared a major (Undecided), you must meet with the staff of the University College for advising. 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 107.

### Determining Your Catalog

When you declare your major the current catalog 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 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 58, 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 15 semester hours. If you are on probation and are subject to mandatory advising, first bring your proposed schedule to your advisor. Once your advisor

approves your schedule, bring 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 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 if 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. In these hours, you must meet the following requirements.

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.

### FOREIGN LANGUAGE..... 12

Successful completion of 12-hour sequence ending with FRN 204; GER 204; JPN 204; LAT 204; or SPN 204. 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 or FRN 112 for which they will receive 6 hours of credit (for FRN 101 or SPN 101) if they earn at least a C. The next course in the sequence would then be Spanish 203 or French 203. 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 of a foreign language and its culture.

### HUMANITIES (in addition to the Core II requirement) .....3

Any 3-hour course must be taken from among the following: any Classics course except CL 230, 231, 232, 233, 234, 235, 236, 237; any Philosophy course; or any Religious Studies course except RST 304, 320, 325, 351.

### LITERATURE.....6

Hours may be taken from any of the following: Classics 210, 230, 231, 232, 233, 234, 235, 236, 237; any English 200, 300 or 400 level course in literature (writing courses do *not* count); any Latin 300 or 400 level course; Religious Studies 220, 225, 304, 310, 351; any course in French, German, Japanese or Spanish literature.



SOCIAL SCIENCES (in addition to the Core II requirement) .....	9
Courses are to be taken in at least three fields. (Check prerequisites before registering):	
Anthropology	
Criminal Justice and Criminology	
Economics (any course except 328 or 423)	
Geography (any course except 101, 230, 350, 425, 430)	
History	
Political Science	
Psychology	
Sociology (any course except 108)	
Women's Studies 101	
NATURAL AND PHYSICAL SCIENCES (in addition to the Core II requirement) .....	4
Choose one four hour course from one of the following fields (Check prerequisites before registering):	
Biology	
Chemistry	
Geography 101, 230, 350, 425	
Geology	
Integrated Science	
Physical Science	
Physics	
MULTICULTURAL requirement (in addition to the Core II requirement) .....	3
INTERNATIONAL requirement (in addition to the Core II requirement) .....	3

## FOUR-YEAR CURRICULA

### DEPARTMENT OF CLASSICS

**Dr. E. Del Chrol, Chair**

[www.marshall.edu/classical-studies/](http://www.marshall.edu/classical-studies/)  
[classicalstudies@marshall.edu](mailto:classicalstudies@marshall.edu)

#### Professors

Perkins

#### Associate Professors

Chrol, Franzen

Classics is the academic area of scholarly study which investigates the Greek and Roman past in order to understand ourselves in relation to the past. This field includes the archaeologies, histories, literatures, languages, and cultures of ancient Greece and Rome from their Neolithic origins until the end of the Fifth Century C.E. The Department of Classics offers two types of undergraduate degrees, a B.A. in Classics and a B.A. in Latin, and two graduate degrees, an M.A.T. in Latin and an M.A. in Latin.

#### Languages

Students can fulfill their foreign language requirement by taking twelve hours of Greek or Latin.

#### Opportunities

Degrees in Classics and Latin offer the same variety of career opportunities as other Liberal Arts degrees. In general, they provide a broad base of knowledge and intellectual skills that enable individuals to be flexible and versatile in a constantly changing job environment. In particular these degrees provide: a) a solid basis for professional training in law and medicine; b) preparation for occupations connected with Classical Archaeology; c) a basis for work in various government positions where there is a long tradition of hiring people with a classical background; and d) preparation for occupations connected with education, which include teaching in public and private schools as well as at the college and university level.

## **Undergraduate Degrees**

The B.A. in Classics through the Humanities degree program combines interdisciplinary study with a concentration in Classics. This thirty-three hour degree consists of three team-taught interdisciplinary core courses from any combination of 250, 390-394 and 490-494, of which a 400-level course serves as the capstone course for the degree, one introductory course from Classics, Philosophy and Religious Studies, and five upper-level courses chosen from any discipline. Each student works with an advisor and may work with a committee of faculty to design these contract courses so that they center on a particular interest or area of study.

The B.A. in Latin can be acquired through the College of Liberal Arts or the College of Education. In both, the degree consists of Classics 436 (Roman Civilization) and thirty hours of Latin, eighteen of which must be above Latin 204.

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 or the College of Education, and must demonstrate a proficiency in writing through examination by the department.

## **Latin Capstone Experience**

The Latin Capstone Experience consists of LAT 499, Senior Project, a three credit-hour course in which 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

## **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 101, 102 and 203 in order to continue to the next course in the sequence.

## **Credit Transfer**

The Department of Classics does not accept the transfer of credit earned in courses taken by correspondence. Students wishing to receive transfer foreign language credit should consult the chair.

## **Minors**

There are three minors in Classics. A minor in Classics consists of fifteen hours drawn from any Classics course except CL 200. A minor in Classical culture consists of fifteen hours selected from CL 230, 319, 370, 435, 436 and 460, 470 and 471. A minor in Classical Literature consists of fifteen hours of CL 230, 231, 232, 233, 234, 235, 236, or 237.

A minor in Latin consists of twelve hours of Latin, nine of which must be above the 100-level, and one 400-level course taught in English: either CL 436, 472 or 475.

A minor in Greek consists of Greek 201, 202, 301 and 302, and CL 435 (Greek Civilization).

## **Master of Arts in Teaching**

Students who are planning a career in secondary school education can complete their preparation for this field with the Master of Arts in Teaching offered by the College of Education. This degree combines the undergraduate major in Latin with education courses and clinical experience. Students must specialize in a second content area in addition to Latin.

## **Course Descriptions**

Course descriptions in Classics may be found alphabetically in the "Courses of Instruction" section.

## **DEPARTMENT OF COMMUNICATION STUDIES**

**Dr. Camilla Brammer, Chair**

[www.marshall.edu/commstu/](http://www.marshall.edu/commstu/)  
[commstu@marshall.edu](mailto:commstu@marshall.edu)

### **Professors**

Bookwalter, Brammer, Cooper, Tarter, Torppa

### **Associate Professors**

Gilpin, Greenwood

### **Assistant Professors**

J. Underhill, S. Underhill

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.

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, CMM 104H, or CMM 207) may not be used to satisfy major requirements.

All Communication Studies concentrations require the following classes: CMM 302, CMM 303, CMM 411, and CMM 478. The specific requirements for each concentration are listed below.

### **Health Communication**

The Health Communication concentration is intended for students seeking careers in health settings or services, public health professions, and/or administrative positions in the health professions as well as graduate work in the field of Communication Studies.

The following departmental courses are required for this concentration: CMM 374, CMM 474, and CMM 479. Students will select three additional Communication Studies courses from the following: CMM 213, CMM 308, CMM 311, CMM 315, CMM 345, CMM 406, or CMM 420. Students must also select three Communication Studies electives for a total of nine credit hours.

### **Interpersonal Communication**

The Interpersonal Communication concentration is intended for students seeking careers in business, service industries, professions requiring face-to-face collaborative interaction, and/or graduate work in the field of Communication Studies.

The following departmental courses are required for this concentration: CMM 213, CMM 311, CMM 315 or CMM 322, CMM 345, CMM 413, and CMM 420. An additional 9 hours of electives in Communication Studies are required. The department recommends forming a minor, in consultation with an advisor, in one of the following departments: Counseling, Psychology, or Sociology.

### **Organizational 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 the field of Communication Studies. The following departmental courses are required for this concentration: CMM 302, CMM 315, CMM 319 or CMM 322, CMM 401, CMM 408, and CMM 420. An additional 9 hours of electives in Communication Studies are required. The department recommends forming a minor, in consultation with an advisor, in one of the following departments: Journalism (Public Relations), Management, Political Science, Psychology, or Sociology.

### **Public 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 the field of Communication Studies. The following departmental courses are required for the concentration: CMM 205, CMM 302, CMM 308, CMM 310, CMM 402, and CMM 409. An additional 9 hours of electives in Communication Studies are required. The department recommends forming a minor, in consultation with an advisor, in one of the following departments: Criminal Justice, English, History, Journalism, Marketing, or Political Science.

### **Communication Education**

The College of Education offers a concentration in Communication Education. This concentration is intended for students seeking teaching specialization in Oral Communication for the Middle School (grades 5-9) or Middle and Secondary School (grades 5-12). See the College of Education section for college and specialization requirements.

### **Minor in Communication Studies**

A minor in Communication Studies consists of 12 hours, but may not include CMM 103, CMM 104H, or CMM 207 as those courses are used to fulfill general education requirements.

### **Course Descriptions**

Course descriptions in Communication Studies may be found alphabetically in the “Courses of Instruction” section.

## **CRIMINAL JUSTICE AND CRIMINOLOGY**

*See Integrated Science and Technology within the College of Science.*

**ECONOMICS: B.A. through College of Liberal Arts**  
**Dr. Harlan Smith, Head, Division of Finance and Economics**  
*smithh@marshall.edu*

**Professors**

Adkins, J. Agesa, R. Agesa, Akkihal, Brookshire, Newsome, Smith

**Associate Professors**

Wilkins

**Assistant Professor**

Hamilton

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.

Students who select this option must fulfill all COLA requirements for the B.A. degree and complete the following coursework: Economics 250, 253, 326, 328, 423, 466 (Capstone); 9 additional hours in Economics to be chosen with the advice and approval of the Academic Advisor; and Management 218. 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.

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. Harlan Smith in the College of Business.

**Course Descriptions**

Course descriptions in Economics may be found alphabetically in the "Courses of Instruction" section.

**DEPARTMENT OF ENGLISH**

**Dr. Jane Hill, Chair**  
*www.marshall.edu/english*  
*english@marshall.edu*

**Professors**

Burberry, Hill, Hood, Moore, Riemer, Schray, Taft, Teel, Van Kirk, Young

**Associate Professors**

Aftanas, Hatfield, Hong, Peckham, Prejean, Schiavone, S. Smith, Viola, Zhao

**Assistant Professors**

Brewster, Carey, Damai, Lillvis, Oeding, E. Smith, Squire, Treftz, White

**Term Faculty**

Anderson, Carpenter, Ellison, Lumpkin, O'Malley, Oudghiri-Otmani, Sonderman

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.

Majors may choose from four Areas of Emphasis: Literature, Creative Writing, Education and Generalist. 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.

Although the emphases in each area differ, the goals are essentially the same: an acquaintance with English and American literature necessary for the liberally educated person; a knowledge of the language 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 420: Senior Seminar, which requires a capstone project to be determined by the student in collaboration with the instructor.

The B.A. program in all areas of emphasis 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 420.
- Appropriate courses for area of emphasis 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 in any area of emphasis.

### Major Core Courses (must be taken by all majors in all areas of emphasis)

ENG 350: Literary Studies for English Majors (taken within first 9 hours of coursework).....	3
ENG 355: Introduction to Critical Theory.....	3
ENG 420: Senior Seminar (not to be taken until at least 12 hours of major coursework at the 400 level have been completed).....	3

### Additional Major Courses for Literature Area of Emphasis

<i>Courses</i>	<i>Hours</i>
I. British Literature before 1800 (Choose from 409, 410, 411, 412, 436, or 480-488 [when so designated by the chair]) .....	3
II. American Literature before 1900 .....	3
(Choose from 421, 422, 423, or 480-488 [when so designated by the chair])	
III. Individual Author .....	3
(Choose from 409, 410, 411, 412, or 480-488 [when so designated by the chair])	
IV. Literary Studies .....	15
(Choose from 200, 200H, 203, 206, 209, 210, 211, 212, 213, 215, 225, 231, 235, 240, 241, 242, 280-289 (when so designated by the chair), 344, 409, 410, 411, 412, 415, 421, 422, 423, 424, 430, 432, 433, 434, 435, 436, 447, 450, 451, 455, 458, or 480-488 [when so designated by the chair])	
V. Any upper-division English course (300- or 400-level).....	3

### Additional Major Courses for Creative Writing Area of Emphasis

<i>Courses</i>	<i>Hours</i>
I. Contemporary Literature .....	3
(Choose from 424, 432, 433, 434 or 480-488 [when so designated by the chair])	
II. Any 400-level literature course <b>not</b> used to satisfy Contemporary Literature requirement.....	3
(Choose from 409, 410, 411, 412, 415, 421, 422, 423, 424, 426, 430, 432, 433, 434, 435, 436, 447, 450, 451, 455, 458, or 480-488 [when so designated by the chair])	
III. Creative Writing Sequence .....	12
[Choose one genre and then 12 hours from the courses attached to that genre: <b>Poetry</b> (360, 377, 491, and 378 or 379); <b>Fiction</b> (360, 378, 492, and 377 or 379); or <b>Creative Nonfiction</b> (360, 379, 493, and 377 or 378)]	
IV. English electives.....	9
(Choose from any 200-, 300-, or 400-level ENG class)	

### Additional Major Courses for Generalist Area of Emphasis

English Electives .....	27
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### College of Education and Professional Development, English Education 5-Adult teaching specialization

Please see the College of Education and Professional Development section.

### Minor in English

A minor in English requires 15 hours in English beyond 201 or 201H, with no more than six hours on the 200 level.

### Course Descriptions

Course descriptions in English may be found in the alphabetical “Courses of Instruction” section.

**DEPARTMENT OF GEOGRAPHY**  
**Dr. Joshua Hagen, Chair**  
*[www.marshall.edu/geography/](http://www.marshall.edu/geography/)*  
*[geograph@marshall.edu](mailto:geograph@marshall.edu)*

**Professors**

Hagen, Leonard

**Associate Professors**

Law, Walz

**Assistant Professor**

Djietror

The Geography Department at Marshall University offers a supportive atmosphere featuring responsive, accomplished faculty and state-of-the-art facilities. Geography majors study the traditional foundations and tools of the discipline and have access to the latest technology for research and preparation for employment. The department maintains a large historical map library, a physical geography lab, and a Geographic Information Systems/Remote Sensing (GIS/RS) lab. Students in Geography at Marshall enjoy many opportunities to interact with faculty and other students and to actively participate in regional- and national-level geography organizations.

Graduates of the program have enjoyed successful careers as urban and regional planners, cartographers, GIS analysts, environmental consultants, tourism professionals, mineral resource analysts, historic preservation planners, transportation planners, and teachers. Many of our majors have secured employment prior to graduation, reflecting the demand for professional geographers in a variety of fields, while others successfully pursue master's degrees.

Students in the College of Liberal Arts may major in Geography and earn either a Bachelor of Arts (B.A.) or Bachelor of Science (B.S.) degree. The B.A. degree in Geography is for students who prefer human geography, such as regional, cultural, political, economic geography, GIS, or planning. The B.S. degree in Geography is for students who prefer physical geography, such as environmental science, meteorology, planning, GIS, and remote sensing.

The undergraduate program in Geography consists of core requirements, including a capstone course (GEO 499), and geography electives for a minimum of 35 hours of geography coursework. Students who plan to major in geography should choose geography electives appropriate to the B.A. (social science) or B.S. (natural science) in consultation with a faculty advisor. Several core geography requirements are available as online courses (e.g., GEO 100, 101, 203, 317). In consultation with a faculty advisor, students must choose an appropriate natural science (B.S.) or social science (B.A.) minor.

**All Geography majors are required to earn a C or better in their Geography coursework if those hours are to count toward graduation.**

**Core Requirements in Geography (B.A. or B.S.)**

**B.A. in Geography**

**B.S. in Geography**

The Bachelor of Science degree in Geography is available for students with an interest in physical geography, GIScience, meteorology, or weather broadcasting. The Geography B.S. degree has a sequence of 6 required courses, including a capstone course, for a total of 20 credit hours. To compensate for the increased number of hours for the B.S. in Geography degree (including the meteorology and weather broadcasting areas of emphasis), the College of Liberal Arts' foreign language requirement of 12 hours will be waived.

For students focusing in physical geography or GIScience, students must complete an additional 22 credit hours from the list of Physical Geography and/or GIScience courses. Therefore, the Geography B.S. will total a minimum of 42 credit hours of required and elective Geography coursework.

**Core Requirements (20 credit hours)**

GEO 100: Introduction to Human Geography (CT) (3 credits)

GEO 101: Physical Geography (CT) (4 credits)

GEO 317: World Regional Geography (3 credits)

MTH 225: Statistics (or substitute one of MGT 218, PSY 223, SOC 345/ANT 301, or EDF 417) (3 credits)

GEO 426: Principles of GIS (4 credits)

GEO 499: Geography Capstone (3 credits)



## **Electives (22 credit hours)**

### *GIScience courses*

- GEO 110: Basic GIS (1 credit)
- GEO 111: Air Photos and Satellite Imagery (1 credit)
- GEO 112: Introduction to Global Positioning Systems (GPS) (1 credit)
- GEO 429: Intermediate GIS - Vector Analysis (3 credits)
- GEO 430: Intermediate GIS - Raster Analysis (3 credits)
- GEO 431: Principles of Remote Sensing and Photogrammetry (3 credits)
- GEO 432: Enterprise GIS (3 credits)
- GEO 433: GPS and Mobile Geospatial Technologies (3 credits)

### *Physical Geography courses*

- GEO 222: Global Environmental Issues (CT) (3 credits)
- GEO 230: Introduction to Meteorology (CT) (4 credits)
- GEO 350: Severe Local Storms and Natural Hazards (4 credits)
- GEO 360: Weather Analysis (3 credits)
- GEO 422: Environmental Geography (3 credits)
- GEO 425: Climatology (3 credits)

## **B.S. in Geography with an Area of Emphasis in Meteorology**

For students specializing in the meteorology area of emphasis, students must take the Geography Core requirements of 20 credit hours. In addition, students must take the following Meteorology electives (23 credit hours) to satisfy the area of emphasis. Therefore a student will complete a minimum of 43 credit hours (20 core requirement + 23 electives) of coursework specializing in meteorology.

### *Meteorology Area of Emphasis Electives (23 credit hours)*

- GEO 230: Intro to Meteorology (4 credits)
- GEO 350: Severe Storms and Natural Hazards (4 credits)
- GEO 360: Weather Analysis (3 credits)
- GEO 425: Climatology (3 credits)
- GEO 431: Remote Sensing (3 credits)
- \*PHY 308: Thermal Physics (3 credits)
- \*PHY 330: Mechanics (3 credits)

\*Requires that the student must have taken the following: PHY 211 and 202 (lab), General Physics and General Physics Laboratory; PHY 213 and 204 (lab), Principles of Physics and Laboratory Methods in Physics; MTH 229, Calculus with Analytic Geometry I; MTH 230, Calculus with Analytic Geometry II; MTH 231, Calculus with Analytic Geometry III.

## **B.S. in Geography with an Area of Emphasis in Weather Broadcasting**

For students specializing in the weather broadcasting area of emphasis, students must take the Geography Core requirements of 20 credit hours. In addition, students must take the following Weather Broadcasting electives (20 credit hours) to satisfy the area of emphasis. Therefore a student will complete a minimum of 40 credit hours (20 core requirements + 20 electives) of coursework specializing in weather broadcasting.

### *Weather Broadcasting Area of Emphasis Electives (20 credit hours)*

- GEO 230, Introduction to Meteorology (4 credits)
- GEO 350, Severe Storms and Natural Hazards (4 credits)
- GEO 360, Weather Analysis (3 credits)
- GEO 425, Climatology (3 credits)
- JMC 331, Announcing and Newscasting (3 credits)
- JMC 332, Video Production (3 credits)

## **Minor in Geography**

A minor in Geography consists of a minimum of twelve credit hours of Geography coursework chosen in consultation with a faculty advisor.

## Minor in Meteorology

A minor in Meteorology, which provides a specialized program for students interested in Physical Geography and Meteorology, consists of a minimum of 14 credit hours. GEO 230, 350, and 360 are required and GEO 101, 425, 483 and GLY 150 are optional.

## Certificate or Minor in GIScience

Geospatial Information Science is a research field that utilizes specialized computer hardware, software, and procedures for presentation and analysis of all types of natural and social science data referenced (mapped) to the earth's surface. An undergraduate certificate OR minor in GIScience consists of a minimum of 18 hours in courses designated as GIScience. Students must take courses from at least two different departments. Either GEO 426, Principles of GIS (cross-listed as ANT 402), or IST 423, GIS and Data Systems, is required. Students are encouraged to take both GEO 426 and IST 423. Students must have a *B* (3.0) average in their GIScience courses and no grade below a *C* (2.0) in their GIScience courses to earn the certificate. Students may not earn both a GIScience minor and a GIScience undergraduate certificate. Students who complete the requirements for the certificate OR minor should be able to:

- perform basic and advanced GIScience techniques using vector and raster data;
- apply GIScience to display, support, and analyze research questions in the social or natural sciences;
- collect and create GIScience data using various technologies and software;
- employ and evaluate geographic concepts such as projections, coordinate systems, and scale;
- recognize and apply computer science concepts such as data collection, representation, queries, and storage; and
- enter GIScience employment or continue GIScience work at the graduate level.

## GIScience Courses

BSC 410/PS 410/IST 420, Physical Principles of Remote Sensing with Applications (4 credit hours)  
BSC 410/PS 411/IST 421, Digital Image Processing and Computer Simulation Modeling (4 hrs.)  
ENGR 241, Geomatics (3 hrs.)  
GEO 110, Basic GIS (1 hr.)  
GEO 111, Air Photos and Satellite Imagery  
GEO 201, Introduction to GPS (1 hr.)  
GEO 426, Principles of GIS (3 hrs.) or IST 423, GIS and Data Systems (3 hrs.)  
GEO 429, Intermediate GIS – Vector Analysis (3 hrs.)  
GEO 430, Intermediate GIS – Raster Analysis (3 hrs.)  
GEO 431, Analysis of Digital Airborne and Space-Based Imagery (3 hrs.)  
GEO 432 Enterprise GIS (3 hrs.)  
GEO 433 GPS and Mobile Geospatial Technologies (3 hrs.)  
GEO 490, Internship (3 hrs.; must be GIScience approved in advance)  
GLY 212, Geological Field Mapping (2 hrs.)  
IST 322, Terrestrial Systems (3 hrs.)  
IST 323, Aquatic Ecology (3 hrs.)  
IST 423, GIS and Integrated Data Systems (3 hrs.)  
IST 428, CAD and Terra Modeling (3 hrs.)  
IST 470, Internship (1-4 hrs.; must be GIScience approved in advance to qualify)  
Special Topics courses as approved by the GIScience Curriculum Committee.

## Course Descriptions

Course descriptions in Geography may be found alphabetically in the “Courses of Instruction” section.

## DEPARTMENT OF HISTORY

**Dr. Daniel Holbrook, Chair**

[www.marshall.edu/history/](http://www.marshall.edu/history/)

[history@marshall.edu](mailto:history@marshall.edu)

### Professors

Miller, Mills, Palmer

### Associate Professors

Barksdale, Holbrook, Rensenbrink, Rutherford, Trowbridge, Williams, White

## **Assistant Professors**

Deal, Diener, Tabyshalieva, Woods

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.

The major in History requires a minimum of 36 credit hours of History, including HST 101, 102, 103, 200, 230, 231, 400. Students must also take at least one course from each group of courses listed below. At least twelve credit hours in History must be in courses above the 200 level.

### *United States*

HST 125, 250, 303, 307, 312, 323, 333, 342, 343, 347, 350, 360, 365, 404, 405, 407, 408, 409, 411, 414, 423, 424, 433, 434, 438, 440, 443.

### *European*

HST 205, 206, 219, 220, 223, 304, 306, 307, 406, 421, 422, 425, 426, 428, 430, 446

### *World*

HST 208, 260, 261, 265, 301, 302, 305, 307, 313, 361, 376, 378, 380, 423, 435, 436, 439, 442, 445, 446

## **Capstone**

By successful completion of HST 400, History majors fulfill the capstone experience requirement.

## **Minors**

There are four distinct minors in History from which students may select:

- A. History (15 hours): Only two of the following general surveys (History 101, 102, 103, 230 and 231) can be used to fulfill the requirements of this minor. All courses offered by the History Department are acceptable.
- B. United States History (15 hours): Both of the general surveys of United States History (History 230 and 231) can be used to fulfill the requirements of this minor. All courses in United States History offered by the History Department are acceptable.
- C. European History (15 hours): Only two of the general surveys of World History (History 101, 102 and 103) can be used to fulfill the requirements of this minor. All courses in European History offered by the History Department are acceptable.
- D. World History (15 hours): Only two of the general surveys of World History (History 101, 102 and 103) can be used to fulfill the requirements of this minor. All courses on the history of Africa, Asia, the Developing World, Latin America and the Middle East offered by the History Department are acceptable.

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 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 Comprehensive, 5-12, or Social Studies, 5-8, should see the Dean of the College of Education.

## **Master of Arts in Teaching**

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 [www.marshall.edu/coehs/administration/services/MAT/default.asp](http://www.marshall.edu/coehs/administration/services/MAT/default.asp).

## **Course Descriptions**

Course descriptions in History may be found alphabetically in the "Courses of Instruction" section.

## HUMANITIES: CLASSICS, PHILOSOPHY, RELIGIOUS STUDIES

The Humanities degree program is offered cooperatively by three separate departments: 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 final degree certificate displays both the departmental discipline and the Humanities major.

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.

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 as follows, one for each discipline:

Classics: 230, 231, 232, 233, 234, 235, 236, 237

Philosophy: any 200 or 300 level course, except 302 and 304

Religious Studies: 205, 206, 300

**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. We offer CL/PHL/RST 250 (Orientation in Humanities), CL/PHL/RST 390, 391, 392, 393, 394, and CL/PHL/RST 490, 491, 492, 493, 494 (Humanities Seminar). These courses make use of the combined resources of any two of our disciplines to gain insight into a wide variety of topics, depending on the current interests of students and faculty. The capstone course also aims to reflect on skills and themes the students have explored in their progress through the program.

**Five Courses by Contract (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 contract course selection, advising, and long-range planning. The committee may consist of two or more faculty members from at least two disciplines. Contract courses need not be restricted to those our departments offer and may be structured on the basis of chronological period, comparative cultures, traditional departmental emphasis, theme, or topic. Further information may be obtained from any faculty member in Classics, Philosophy, or Religious Studies.

### Course Descriptions

Course descriptions for Humanities may be found alphabetically in the "Courses of Instruction" section under Classics, Philosophy, and Religious Studies.

## INTERNATIONAL AFFAIRS

**Dr. Jess Morrisette, Program Director**

***[www.marshall.edu/polsci/academic-programs/international-affairs/](http://www.marshall.edu/polsci/academic-programs/international-affairs/)***

A major in International Affairs combines studies in Economics, Geography, History, and Political Science and emphasizes the study of a foreign language.

A major in International Affairs must meet the specific and general requirements for the B.A. degree except as altered by the following requirements:

- a. 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).
- b. The following courses are required:
  - Economics 250, 253, and any two of 340, 408, 420 or 460
  - Geography 405 or 317
  - History 103 and 231
  - Political Science 207, 209, 406 and three hours from PSC 405, PSC 412, PSC 415, PSC 420, PSC 423, or PSC 424
- c. History: Choose six hours from the following: HST 206, HST 208, HST 223, HST 265, HST 301, HST 302, HST 303, HST 304, HST 305, HST 306, HST 307, HST 313, HST 361, HST 378, 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.
- d. Electives: A minimum of 9 hours from among the following:
  - Anthropology: ANT 201, ANT 440, ANT 441, ANT 465, ANT 468
  - History: HST 206, HST 208, HST 223, HST 265, HST 301, HST 302, HST 303, HST 304, HST 305, HST 306, HST 307, HST 313, HST 361, HST 378, 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

Political Science: PSC 405, PSC 407, PSC 408, PSC 409, PSC 410, PSC 411, PSC 412, PSC 415, PSC 416, PSC 417, PSC 420, PSC 422, PSC 423, PSC 424, PSC 428, PSC 429, PSC 431, PSC 444

Geography: GEO 100, GEO 203, GEO 222, GEO 317, GEO 403, GEO 404, GEO 405, GEO 406, GEO 407, GEO 408, GEO 409, GEO 412, GEO 422.

- e. With the approval of the advisor other courses may be substituted or added such as special topics offerings, area studies courses, summer workshops or internships.
- f. International Affairs majors shall, in their senior year, take the designated capstone course, INT 499.
- g. A minor in International Affairs requires 12 credit hours in any of the following courses:
  - ANT 201
  - CMM 322
  - ECN 250, 253, 420, 460
  - GEO 317, 405
  - HST 103, 208, and any non-American history course
  - PSC 209, 420, 423

No course in a student's major may apply toward the minor in International Affairs.

### **Course Descriptions**

Course descriptions for International Affairs may be found alphabetically in the "Courses of Instruction" section under Economics, Geography, History, International Affairs, and Political Science.

## **DEPARTMENT OF MODERN LANGUAGES**

**Dr. Caroline Perkins, Chair**

*[www.marshall.edu/language/](http://www.marshall.edu/language/)  
[language@marshall.edu](mailto:language@marshall.edu)*

### **Professors**

Burgueño, Dolmetsch, López, Migernier, Morillo, Stump

### **Associate Professors**

Anderson, Quintana-Villamandos

### **Assistant Professors**

Butler, Rivas

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, both at 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 or minor in French, German, Japanese, and Spanish. The department has created special designators, MDL 280-283 and MDL 480-483, 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. The German and French majors must include seven courses, typically twenty one hours, in courses numbered above 204 and must include three courses, typically nine hours, of 400-level courses. The Japanese major also must include twenty-one hours numbered above 204. JPN 305, 315, 401, 490 and one other



400-level course are required. The Spanish major also must have twenty-one hours above 204 and must include a course in composition, a course in conversation, a course in culture, and three courses, typically nine hours, of 400-level courses. In French, German, and Japanese, two 3-hour courses taught in English will be allowed to count toward the completion of the required hours for the major.

### **Minor in a Modern Language**

A minor in French, German, Japanese, or Spanish may be earned by successful completion of 12 hours in the designated language (100-level courses do not count for a minor). One 3-hour course of French, German or Japanese literature in translation or culture taught in English will be allowed to count toward the completion of the required hours for the minor.

### **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, or 112 language courses in order to continue to the next course. Students receiving a *D* in 203 are eligible to continue to 204 only upon the passing of a challenge examination in the first week of the new semester with a grade of *C* or better.

### **Policy on Native Speakers**

A native speaker of a foreign language may not enroll in nor receive college credit for basic foreign language courses (those numbered 101-204) in his or her native tongue. This policy does not automatically extend to courses numbered above 204, but upon departmental recommendation may be extended to courses in conversation and composition (300 level) for a student already deemed fully proficient in his or her native tongue.

### **Credit Transfer**

The Department of Modern Languages does not accept the transfer of credits earned in courses taken by correspondence. 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, German, Japanese, or Spanish 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. Majors should be able to demonstrate an advanced low level of proficiency in the target language in order to graduate. Graduating seniors will be required to turn in a portfolio that demonstrates their language skills.

### **Summer Study Programs Abroad**

- *French Language and Culture Program in Lyon, France:* Students can earn six hours of academic credit by studying at the Universite Catholique de Lyon, France during the month of July. The program offers courses in the French language at elementary, intermediate, and advanced levels. It also offers courses in composition, conversation, literature, history and art. The instructors are native speakers of French who hold advanced university degrees and who are fully accredited by the French 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 June and return August 1st. While in Lyon, students reside with families. The cost of the program includes tuition (6 hours) and room and board (three meals a day) for a month. Contact Prof. Eric Migernier in the Dept. of Modern Languages for specific information and to obtain application forms.

- *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.



## Course Descriptions

Course descriptions for Modern Languages may be found alphabetically in the “Courses of Instruction” section under the name of the language.

## DEPARTMENT OF PHILOSOPHY

**Dr. John N. Vielkind, Chair**

*[www.marshall.edu/philosophy](http://www.marshall.edu/philosophy)*

*[vielkind@marshall.edu](mailto:vielkind@marshall.edu)*

### Professors

Barris, Ormiston, Powell, Vielkind

A concentration in Philosophy leads to a degree in Humanities. Philosophy asks very basic questions about the nature of reality. Because these questions include our own reality—what we are as human beings—Philosophy activates and makes grow what we ourselves in fact are. Part of being human is to be with others in a world, and Philosophy is also the growth of our relations with other people and with the world around and in us. We teach this growth in the form of the deepest reasoning we can give in response to our questions.

Major requirements may be found under Humanities. A minor in Philosophy consists of 15 hours.

## Course Descriptions

Course descriptions for Philosophy may be found alphabetically in the “Courses of Instruction” section.

## DEPARTMENT OF POLITICAL SCIENCE

**Dr. Marybeth Beller, Chair**

*[www.marshall.edu/polsci/](http://www.marshall.edu/polsci/)*

*[polsci@marshall.edu](mailto:polsci@marshall.edu)*

### Professors

Behrman, Brown, Warner

### Associate Professors

Beller, Davis, Morrissette

### Assistant Professors

Butz, Schulenberg

### Instructor

Proctor

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.

A **major in Political Science** must fulfill the general and specific requirements for the B.A. degree and must complete 36 hours in Political Science, including Political Science 104, 105, 211, and **499 (Capstone Experience)**. In addition, each major must take at least three courses in any one of the five fields into which Political Science offerings are divided and at least one course in any three of the remaining four fields.

The fields of the Political Science curriculum with courses in each are as follows:

- American National, State, and Local Politics: 202, 301, 307, 376, 381, 383, 423, 427, 436, 440, 442, 446, 460, 484
- International and Comparative Politics: 207, 209, 405, 406, 407, 408, 409, 410, 411, 412, 415, 416, 420, 422, 423, 424, 428, 429, 431, 442, 444
- Constitutional Democracy: 417, 418, 421, 427, 429, 436, 444, 446, 460, 484
- Political Theory: 200, 418, 419, 421, 425, 426, 428, 429, 430, 446
- Public Administration, Public Policy and Urban Politics: 233, 311, 333, 433, 450, 452, 453, 454, 461

Courses that appear in more than one field may not be counted twice.

A **minor in Political Science** consists of completing 15 credit hours, in any combination, from the courses listed above.

Recommended electives include Economics (especially 250 and 253); History 205 and 206 (for pre-law students), 230, 231; Accounting 215 and 216 (for pre-law students); Philosophy; Psychology; Sociology; Communications Studies 310; and English 408.

## Course Descriptions

Course descriptions for Political Science may be found alphabetically in the “Courses of Instruction” section.

## **The Dr. Simon D. Perry Program on Constitutional Democracy**

### **Patricia Proctor, J.D., Director**

This program is the curricular arm of the Simon Perry Center for Constitutional Democracy, housed in the College of Liberal Arts. The aim of the program is to demonstrate the role of powerful forces in shaping the nature of our constitutional system over a long period of time. It highlights the role of some of America's greatest leaders in this effort.

The new program attracts students wishing to pursue research and studies in constitutional democracy; to develop a richer academic experience in a program that is uniquely related to law; and to study the role of famous historical leaders such as George Washington, John Marshall, Alexander Hamilton, Thomas Jefferson, Abraham Lincoln, the two Roosevelts, and many others.

Students are encouraged to take a variety of courses in this interdisciplinary program: PSC 417, 418, 421, 427, 429, 436, 444, 446, 460 and 484;

HST 409, 411, and 414; ENG 462; PHL 451; and SOC 423.

Students may also earn a minor in Political Science with a concentration on Constitutional Democracy by taking any five of the following courses:

PSC 417, 418, 421, 427, 429, 436, 444, 446, 460 and 484

Course Descriptions may be found alphabetically in the "Courses of Instruction" section.

## **DEPARTMENT OF PSYCHOLOGY**

**Dr. Steven Mewaldt, Chair**

[www.marshall.edu/psych/](http://www.marshall.edu/psych/)

[mewaldt@marshall.edu](mailto:mewaldt@marshall.edu)

### **Professors**

Amerikaner, Bardi, Beard, Footo-Linz, LeGrow, Lindberg, Mewaldt, Mulder, Pittenger, Wyatt

### **Associate Professors**

Fugett-Fuller, Hinton, Linz, Muellerleile

### **Assistant Professors**

Goudy, Howerton, Koontz, Tiano

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.

The Psychology major earns a liberal arts B.A. degree while also preparing for a variety of post-baccalaureate options. These include: a) graduate education in such fields as Psychology, Medicine, Law or Business; b) work in business, industry and organizations; and c) work in mental health and social service settings.

Since graduate education is essential for students hoping to become psychologists and since admission into graduate programs in Psychology is quite competitive, students with graduate education goals are encouraged to work particularly closely with their advisors throughout their undergraduate careers.

Please note that for all upper division (300- and 400-level) Psychology courses, prerequisites include successful completion of at least 12 college credits at the 100-level or higher.

### **Required Courses: (21 credits)**

1. General Psychology - PSY 201.
2. Elementary Behavioral Statistics - PSY 223.
3. Experimental Psychology - PSY 323.
4. Choose at least one from the *Social/Personality Perspective*: PSY 302, PSY 360, PSY 408, PSY 418, PSY 420, PSY 426, PSY 430, PSY 433.
5. Choose at least one from the *Experimental/Biopsychology Perspective*: PSY 324, PSY 350, PSY 391, PSY 416, PSY 417, PSY 440, PSY 443.
6. Choose at least one from the *Developmental/Individual Perspective*: PSY 311, PSY 312, PSY 330, PSY 406, PSY 465, PSY 475.
7. *Capstone Course*: After consulting with your advisor, choose one of the capstone options. PSY 456, PSY 457, PSY 460, PSY 470, PSY 471, PSY 480, PSY 499. Not all will be available every semester, so you may not be able to enroll in your first choice. See description of "capstone" below.

### **Electives: (12 credits)**

Students may select any additional 4 courses (12 credits) in Psychology to complete their major requirements. Students are strongly urged to consult with their advisors about these important choices. The groupings of courses listed as follows are intended to guide the selections of students with specific educational and career objectives.

1. Majors intending to apply for graduate/professional schools (*e.g.*, Psychology, Medical School, Law School): PSY 302, PSY 311/312, PSY 406, PSY 408, PSY 416, PSY 417, PSY 440, PSY 456, PSY 460. Suggestions for minor: consult with your advisor.
2. Majors intending to work in business and industry after completing their B.A. degree: PSY 302, PSY 406, PSY 416, PSY 418, PSY 427, PSY 470, Economics 100, Accounting 215. Suggestions for minor: Marketing, Management, Safety Technology.
3. Majors intending to work in mental health settings after completing their B.A. degree: PSY 204, PSY 311/312, PSY 330, PSY 360, PSY 380, PSY 408, PSY 433, and PSY 471. Suggestions for minor: Counseling, Social Work or Special Education.
4. Majors who wish to use Psychology as a general Liberal Arts degree: Follow requirements and any minor (whatever interests you, in consultations with advisor).

### **Minor in Psychology**

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.

### **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.

### **Capstone**

Psychology majors can satisfy the capstone requirement by successfully completing one of several courses: Research in Psychology (PSY 456-457); an undergraduate practicum in either Clinical or Industrial/Organizational Psychology (PSY 470 or 471); Nonverbal Behavior (PSY 480); the capstone seminar (PSY 499), which will focus on a variety of topics, or History and Systems of Psychology (PSY 460).

In order to enroll as a capstone student in any of these courses, a student must have a 2.0 GPA in Psychology and overall, have completed at least 80 credit hours of undergraduate coursework, and satisfy the specific course prerequisites. Permission to enroll as a capstone student is required from the instructor, and there is an application process for admission to PSY 470, 471, 456, and 457. Advanced students can take more than one of these courses, but only one will be used for the capstone experience. Check with your advisor in your junior year for specific capstone requirements.

### **Course Descriptions**

Course descriptions for Psychology may be found alphabetically in the "Courses of Instruction" section.

## **DEPARTMENT OF RELIGIOUS STUDIES**

**Dr. Clayton L. McNearney, Chair**

*rst@marshall.edu*

**Professor**

McNearney

**Associate Professor**

Ruff

The academic exploration of religion leading to a major emphasis in Religious Studies is possible because we are a component of the program in Humanities. Along with the departments of Philosophy and Classics, we offer a diversified, interdisciplinary, team-taught curriculum in which students share in the shaping of their individual "contract" major. For details of required courses including the capstone, and an explanation of how to develop a contract, see the section titled Humanities. Members of the department place great emphasis upon faculty-student advising. You are encouraged to contact a full-time member of the faculty to discuss the possibilities open to you, including the possibility of a "double major," at any time.

A minor in Religious Studies consists of 15 hours.

*(continued)*

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 computer literacy and a proficiency in writing through examination by the department.

### **Course Descriptions**

Course descriptions for Religious Studies may be found alphabetically in the “Courses of Instruction” section.

## **DEPARTMENT OF SOCIOLOGY AND ANTHROPOLOGY**

**Dr. Martin Laubach, Chair**

***[www.marshall.edu/sociology/](http://www.marshall.edu/sociology/)***

### **Professors**

Freidin

### **Associate Professors**

Garnett, Hadler, Hoey, Laubach, Roth, Sullivan

### **Assistant Professor**

Conley, Fondren

## **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.

## **Major in Sociology**

To graduate with a major in Sociology, a student must take 39 credits of required core classes and electives as described below.

The required core of the Sociology major consists of 18 credits (6 classes):

- SOC 200 Introductory Sociology
- SOC 344 Social Research I
- SOC 345 Social Statistics I
- SOC 360 Sociological Theory
- SOC 391 Junior Seminar
- SOC 492 Senior Seminar (Capstone)

An additional 21 credits (7 classes) of electives must be chosen from classes with the SOC prefix. These electives must include:

- a) a minimum of three classes from courses in one of the focus areas listed below to develop program depth; this selection must include the italicized course as the foundation course for that focus area.
- b) classes that contribute to three other focus areas to develop program breadth.
- c) free electives: the remaining 3-9 credits can be fulfilled by any class with the SOC prefix, including Independent Study and Internship. The number of remaining credits will vary dependent on the selection of courses to satisfy requirement a) and b) above. Some classes are listed in more than one focus area and a student can count such classes in more than one focus area for this requirement; however, the requirement for the total number of credit hours must of course still be met.

The focus areas are as follows:

*Organizations & Institutions*

*SOC 300 Social Organization*  
SOC 362 Health, Culture, and Society  
SOC 408 The Family  
SOC 433 Sociology of Work  
SOC 450 Sociology of Religion  
SOC 342 American Society

*Stratification/Diversity*

*SOC 375 Social Stratification*  
SOC 423 Social Class, Power and Conflict  
SOC 425 Race and Ethnicity  
SOC 432 Sociology of Appalachia  
SOC 440 Introduction to the Sociology of Aging  
SOC 450 Sociology of Religion  
SOC 455 Sociology of Sex and Gender

*Social Problems & Collective Behavior*

SOC 310 Individual and Society  
SOC 311 Deviance and Social Control  
*SOC 313 Contemporary Social Issues and Problems*  
SOC 413 Social Movements and Social Change  
SOC 420 Criminology  
SOC 435 Juvenile Delinquency  
SOC 460 Holocaust & Genocide  
SOC 468 National Identity

*Demography, Health, and Human Environments*

SOC 362 Health, Culture, and Society  
*SOC 401 Population and Human Ecology*  
SOC 432 Sociology of Appalachia  
SOC 440 Introduction to the Sociology of Aging  
SOC 442 Urban Sociology  
SOC 452 Sociology of Death and Dying  
SOC 466 Culture and Environment

**Capstone Requirement**

Sociology majors fulfill the capstone requirement by completing the sequence of SOC 391 Junior Seminar in the Fall semester and SOC 492 in the Spring semester and submitting the capstone portfolio.

**Minor in Sociology**

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.



The required core of the Sociology minor consists of 9 credits (3 classes):

SOC 200 Introductory Sociology

SOC 344 Social Research I

SOC 360 Sociological Theory

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; SOC 492 Senior Seminar (Capstone) and a 3 credit SOC 485 Independent Study 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 21<sup>st</sup> 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.

### **Major in Anthropology**

To graduate with a major in Anthropology, a student must take 39 credits of required core classes and electives as described following.



The required core of the Anthropology major consists of 24 credits (8 classes):

- ANT 201 Cultural Anthropology
- ANT 322 Archaeology
- ANT 331 Physical Anthropology
- ANT 478 Introduction to Sociolinguistics (cross-listed with ENG 478)
- ANT 361 Ethnographic Methods
- ANT 391 Junior Seminar
- ANT 491 Theory in Ethnology
- ANT 492 Senior Seminar (Capstone)

An additional minimum of 15 credits of electives must be chosen from classes with the ANT prefix; these electives must include a minimum of 3 credits archaeology and 3 credits socio-cultural anthropology. All classes numbered ANT 320-329 and ANT 420-429 count as archaeology. All classes numbered ANT 350-369, ANT 410-419 and ANT 450-469 count as socio-cultural anthropology. Classes with an area study focus (ANT 440-449) count as socio-cultural anthropology, except ANT 440 African Cultures, ANT 441 Oceania, and ANT 442 Native Americans, which each counts as 1½ credit archaeology and 1½ credit socio-cultural anthropology.

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.

### **Capstone Requirement**

Anthropology majors fulfill the capstone requirement by completing the sequence of ANT 391 Junior Seminar in the Fall semester and ANT 492 in the Spring semester and submitting the capstone portfolio.

### **Minor in Anthropology**

A minor in Anthropology requires 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 ANT prefix. A maximum of 6 credits below the 300 level can be counted towards the minor.

The required core of the Anthropology minor consists of 9 credits (3 classes):

- ANT 201 Cultural Anthropology
- ANT 322 Archaeology
- ANT 361 Ethnographic Methods or ANT 491 Theory in Ethnology

Students majoring or minoring in Anthropology 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 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; ANT 492 Senior Seminar (Capstone) and a 3 credit ANT 485 Independent Study 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."

### **Course Descriptions**

Course descriptions for Anthropology and Sociology may be found alphabetically in the "Courses of Instruction" section.

# INTERDISCIPLINARY MINORS

## AFRICAN AND AFRICAN AMERICAN STUDIES

**Dr. David J. Trowbridge**

*david.trowbridge@marshall.edu*

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:

ANT 440: African Cultures  
CI 459: Multicultural Influences in Education  
CJ 406: Race, Ethnicity, Gender & Crime  
ENG 240: Intro to African American Literature  
GEO 407: Geography of Sub-Saharan Africa  
GEO 409: North Africa and the Middle East  
HST 301: Latin America: Discovery to Independence  
HST 312: African American History  
HST 360: Race and Sport in American History  
HST 365: Modern Civil Rights Movement  
JMC 455: Women, Minorities, and the Mass Media  
MGT 150: Diversity Issues in Business  
MUS 171: African Drum and Dance  
MUS 426: American Music and its Influences  
PSC 376, Black Politics  
PSC 422, African Political Systems  
PSC 460, Civil Rights and Liberties  
SOC 425: Race and Ethnicity  
SOS 207: Problems of a Multicultural Society

## ASIAN STUDIES

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

ART 403: Art of Asia  
CHN 203: Intermediate Chinese III  
CHN 204: Intermediate Chinese IV  
GEO 403: Geography of Asia  
HST 265: Modern East Asia  
HST 378: The Emergence of Modern Asia  
HST 380: Civilizations of Asia to 1600

HST 435: Modern Japan  
HST 436: Modern China  
HST 439: Modern China through Film  
JPN 203: Intermediate Japanese III  
JPN 204: Intermediate Japanese IV  
JPN 304: Japanese Literature  
JPN 315: Advanced Japanese II  
PSC 407: Asian Politics  
RST 206: Introduction to the Religious Traditions of Asia  
RST 360: Hindu Mysticism  
RST 361 : Buddhism

Contact: Dr. Anara Tabyshalieva by phone at 304-696-2724 or by e-mail at [tabyshalieva@marshall.edu](mailto:tabyshalieva@marshall.edu).

## **LATIN AMERICAN STUDIES**

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**

GEO 408, Middle and South America  
HST 301, Latin America from Discovery to Independence  
HST 302, Latin America from Independence to Present  
HST 305, Drug Wars in the U.S. and Latin America  
HST 423, U.S.Latin American Relations  
PSC 411, Latin American Politics  
SPN 335, Latin America Culture and Civilization  
SPN 411, PreModern Latin American Literature  
SPN 412, Contemporary Latin American Literature  
SPN 413, Literary Genres and NonCanonical Issues in Latin America  
SPN 417/418, Hispanic Film and Literature  
SPN 435, Contemporary Latin American Culture

Contact: Dr. Chris White by phone at 304-696-2722 or by e-mail at [whitec@marshall.edu](mailto:whitec@marshall.edu).

## **SEXUALITY STUDIES**

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). The chair of the Sexuality Studies Committee must approve all courses a student wants applied to 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 below, except the Introduction to Sexuality Studies, are approved for certain instructors only.

Political Science/History/Anthropology/English 280. Introduction to Sexuality Studies. Rotating faculty.  
Classics 471. Ancient Sexuality. Dr. Del Chrol.

(continued)

English 344. Film & Fiction Special Section: Sexuality in Cinema Dr. Walter Squire. (Make sure you sign up for the section taught by Dr. Squire).  
 English 434. Sexuality and the Beats. Dr. Alan Gravano.  
 English 455. Queer Theory. Dr. Alan Gravano.  
 History 407. History of Sexuality in the U.S. Dr. Greta Rensenbrink.  
 History 408. History of LGBT Peoples. Dr. Greta Rensenbrink.  
 History 480/580. Writing and Re-Writing the Norse Saga. Dr. Laura Michele Diener.  
 Philosophy 330. Philosophy of Sex. Dr. John Vielkind.  
 Political Science 481/581. The Politics of Gender and Sexuality. Dr. Shawn Schulenberg.  
 Psychology 101. Human Sexual Behavior. Dr. Paige Muellerleile.  
 Psychology 465. Love, Intimacy and Attachment. Dr. Keelon Hinton.

Contact: Dr. Del Chrol by phone at 304-696-4323 or by e-mail at [chrol@marshall.edu](mailto:chrol@marshall.edu).

## **WOMEN'S STUDIES MINOR**

**Dr. Greta Rensenbrink, Director**

**Old Main 357/304-696-3643**

**[www.marshall.edu/womenstu](http://www.marshall.edu/womenstu)**

Marshall University offers a minor in Women's 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 Studies minor. Please check the program website for frequency taught and faculty information. The website will also list Special Topics courses.

ART 404	Iconography of Mary
CJ 406	Race, Gender, Ethnicity and Crime
CJ 440	Criminal Justice Response to Domestic Violence
CL 210	Love and War
CL 231	Women in Greek and Roman Literature
CL 460	Ancient Goddess Religions
CL 471	Ancient Sexuality
GEO 419	Geography of Gender
HST 250	Women in US History
HST 407	History of Sexuality in the United States
HST 443	20th Century US Women's History
HST 451	History of Women in Sports
JMC 455	Women, Minorities, and the Media
PHL 340	Philosophy of Sex Orientation and Gender
PSC 419	Women and Political Thought
PSY 330	Human Sexual Behavior
PSY 430	Psychology of Women and Gender
SOC 455	Sociology of Sex and Gender
SPN 408	Latin American Women
WS 101	Introduction to Women's Studies

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.

ENG 240	African American Literature
ENG 242	Women Writers
ENG 344	Film and Fiction: Sexuality in Cinema
ENG 414	19 Cent. British Novel



# College of Science

**Dr. Charles Somerville, Dean**  
**Dr. H. Wayne Elmore, Associate Dean**  
*[www.marshall.edu/cos/](http://www.marshall.edu/cos/)*  
*[cos@marshall.edu](mailto:cos@marshall.edu)*

The College of Science was established in 1976 and is composed of three divisions: Biological Sciences, Physical Sciences, and Mathematics and Applied Science. The three divisions contain the college's six academic units (Biological Sciences, Chemistry, Geology, Mathematics, Physics and Physical Sciences, and Integrated Science and Technology).

Biological Sciences, Chemistry, Physics and Physical Sciences, and Geology are housed in the Science Building. Mathematics is located in Smith Hall, and Integrated Science and Technology is in the Morrow Library and Prichard Hall. Some lecture and laboratory classes are held in the Robert C. Byrd Biotechnology Science Center.

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.

## 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.

## 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 500 in math and a 1000 composite score are required. Students who are fully admitted are allowed to enroll in the major of their choice.

Students who do not meet these admission requirements but still wish to pursue a program in the College of Science may gain admission by enrolling as pre-science majors and completing the following requirements:

1. Completion of ENG 101, 200H or 201H with a grade of C or higher.
2. Completion of one of the following: MTH 127, 130, 132, 122, 140 or 229 with a grade of C or higher.
3. Transfer students with GPA less than 2.0 who have not passed college algebra with a C or better will be placed in pre-science until they have a C or better in one of the following: MTH 127, 130, 132, 122, 140 or 229..

After meeting these requirements students will become fully admitted and will be allowed to declare a major.



## PROGRAMS

The following programs are available through the departments in the College of Science:

- Applied Mathematics (B.S.)
- Biochemistry (B.S.)
- Biology (B.S.)
- Biotechnology (B.S.)
- Cell, Molecular and Medical Biology (B.S.)
- Chemistry (B.S. - ACS Certified)
- Chemistry (B.S.)
- Computer and Information Technology (B.S.)
  - Game Development Emphasis
  - Web Application Development Emphasis
  - Computer Forensics Emphasis
  - Computer Application Development Emphasis
- Criminal Justice and Criminology (B.A.)
- Digital Forensics and Information Assurance (B.S.)
- Ecology and Evolutionary Biology (B.S.)
- Environmental Chemistry
- Environmental Science (B.S.)
  - Transportation Technology Emphasis
- Forensic Chemistry (B.S.)
- Geology (B.A. and B.S.)
  - Engineering Geology Emphasis
  - Environmental Geoscience Emphasis
- Integrated Science and Technology (B.S.)
  - Environmental Assessment and Policy
- Mathematics (B.S.)
- Microbiology (B.S.)
- Natural Resources and Recreation Management (B.S.)
- Physics (B.S.)
  - Applied Physics Emphasis
  - BioPhysics Emphasis
  - Medical Physics Emphasis
- Statistics (B.S.)
  - Mathematical Statistics Emphasis

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: (1) for any course taken to meet the specific requirements for a B.S. degree (see below); (2) for any course taken to fulfill the requirements for a departmental major; or (3) for any course taken to fulfill the requirements for a minor (item 5).
6. Candidates must earn at least 12 hours in a minor subject. Requirements for the minor are determined by the minor department. The minor field may be chosen from any department within the university that offers a minor as long as it is outside of the student's major field.
7. 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 (Do not apply to Engineering Geology or Environmental Geoscience areas of emphasis or Integrated Science and Technology)**

### ***HUMANITIES***

<i>Requirements</i>	<i>Credit Hours</i>
I. Literature.....	3
II. Natural and Physical Sciences .....	12
Courses to be distributed in at least two fields from biological sciences, chemistry, geology and physics.	
III. Mathematics - Calculus .....	3-10
Requirement varies by department. Students with lower ACT or SAT scores will be placed in the mathematics sequence at an appropriate level.	

## **DEGREE PROGRAMS**

### **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.

### **BIOLOGICAL SCIENCES**

**Dr. David Mallory, Interim Chair**

**[www.marshall.edu/biology](http://www.marshall.edu/biology)**

**[biology@marshall.edu](mailto:biology@marshall.edu)**

#### **Professors**

Binder, Brumfield, Elmore, Evans, Fet, Georgel, Gilliam, Harrison, Joy, Mallory, May, Pauley, Price, Somerville, Strait, Valluri

#### **Associate Professors**

Blough, Collier, O'Keefe, LoCascio, Trzyna, Zhu

#### **Assistant Professors**

Antonsen, Constantino, Kovatch, Schultz

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.

Majors in the life sciences provide preparation that can lead directly to a variety of careers in industry, government agencies, and the basic and applied health fields. They also provide excellent preparation for pursuing graduate studies leading to professions in the biological and health sciences. All majors require a minimum of 40 hours of coursework in the

Department of Biological Sciences. These include BSC 120, BSC 121 and at least 12 hours of core courses, a 2 hour capstone experience requirement (BSC 491) and a minimum of 18-20 hours of electives chosen under the guidance of the faculty advisor to satisfy one of the following majors: Biology; Biomedical Sciences; Ecology and Evolutionary Biology; Microbiology; Cell/Molecular Biology. Additional requirements include the specific requirements of the College of Science in humanities and social sciences, and support courses in chemistry, physics, and mathematics listed as follows:

## REQUIRED COURSES

Biological Science 120, 121*	8 hrs.
Biological Science core courses: 302, 320, 322, 324 (minimum of three)	12-15 hrs.
Biological Science 491** (Capstone)	2 hrs.
Chemistry 211, 212, 217, 218, 355, 356, 361	19 hrs
Physics 201, 202, 203, 204	8 hrs.
Mathematics 132 or 229 or two of the following: MTH 122, 130 (or 127), 140, 225	5-8 hrs.

\*Students must pass BSC 120 and earn a grade of C or better in BSC 121, CHM 211, and CHM 212 before they can enroll in any upper-level BSC course except BSC 227, 228 and 250. BSC 104 and 105 will not substitute for BSC 120 and 121 for any major in the Department of Biological Sciences.

\*\*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.

## MAJORS

### Biology

The biology major is designed for students who do not wish to specialize in their undergraduate work, but will be prepared for a broad spectrum of positions within the biological sciences. Students must meet all the previously stated required courses. They are required to complete all four of the BSC core courses: BSC 302, 320, 322, and 324. The remaining 15 (minimum) elective credit hours are to be selected from each of the specialized tracks. Students must have at least one of the "Required by Major" courses from three of the four majors.

### Cell, Molecular and Medical Biology

The major in cell, molecular and medical biology provides preparation for careers in biotechnology, cell biology, medicine and/or medical research. Students in this major must take BSC 302, 322, and 324 as their Biological Science core courses (see preceding section), as well as three of the following courses:

- BSC 365 - Introductory Biochemistry - 3 cr.
- BSC 420 - Plant Physiology - 4 cr.
- BSC 422 - Animal Physiology - 4 cr.
- BSC 450 - Molecular Biology - 3 cr.

An additional minimum of 9 credit hours of electives are to be chosen from the following courses:

- BSC 301 - Vertebrate Embryology - 4 cr.
- BSC 304 - Microbiology Laboratory - 2 cr.
- BSC 310 - Comparative Vertebrate Anatomy - 4 cr.
- BSC 366 - Biochemistry (lab) - 2 cr.
- BSC 413 - Principles of Organic Evolution - 3 cr.
- BSC 417 - Biostatistics - 3 cr.
- BSC 424 - Animal Parasitology - 4 cr.
- BSC 426 - Medical Entomology - 4 cr.
- BSC 442 - Advanced Microbiology - 4 cr.
- BSC 444 - Bioinformatics. 3 cr.
- BSC 452 - Molecular Biology Laboratory Techniques - 3 cr.
- BSC 454 - Principles of Advanced Methods in Molecular Biology - 3 cr.

### Ecology and Evolutionary Biology

The major in ecology and evolutionary biology offers opportunities for careers in areas such as environmental health, resource management, and basic and applied ecological research. Students are required to complete the previously stated

required courses, which must include BSC 320 and two of the remaining three core courses. The “Required by Major” courses for Ecology and Evolutionary Biology are:

BSC 413 - Principles of Organic Evolution - 3 cr.

BSC 417 - Biostatistics - 3 cr.

BSC 482 - Biosystematics - 3 cr.

The remaining minimum of 9 or 10 elective credit hours are to be chosen from the following courses:

BSC 212 - Invertebrate Zoology - 4 cr.

BSC 304 - Principles of Microbiology Lab - 2 cr.

BSC 310 - Comparative Vertebrate Anatomy - 4 cr.

BSC 365 - Introductory Biochemistry - 3 cr.

BSC 401 - Ichthyology - 4 cr.

BSC 405 - Economic Botany - 3 cr.

BSC 406 - Herpetology - 4 cr.

BSC 408 - Ornithology - 4 cr.

BSC 409 - Mammalogy - 4 cr.

BSC 410 - Remote Sensing/GIS Appl. - 4 cr.

BSC 411 - Dgtl Image Proc/GIS Model - 4 cr.

BSC 416 - Plant Taxonomy - 4 cr.

BSC 420 - Plant Physiology - 4 cr.

BSC 422 - Animal Physiology - 4 cr.

BSC 424 - Animal Parasitology - 4 cr.

BSC 430 - Plant Ecology - 4 cr.

BSC 431 - Limnology - 4 cr.

BSC 445 - Microbial Ecology - 3 cr.

BSC 446 - Microbial Ecology Lab - 2 cr.

BSC 460 - Conservation of Forests, Soil, & Wildlife - 4 cr.

BSC 480-483 - Special Topics - 1-4 cr. (requires approval)

## Microbiology

Students completing the major in microbiology will be prepared for career opportunities in environmental, pharmaceutical, and industrial microbiology. Students will also be prepared to continue specialization at the graduate level in clinical, food and dairy, soil and sanitary bacteriology, as well as industrial microbiology.

Students are required to complete the previously stated required courses which must include:

BSC 302 - Principles of Microbiology - 3 cr.

BSC 324 - Principles of Genetics - 4 cr.

and either

BSC 320 Ecology - 4 cr. OR

BSC 322 Cell Biology - 4 cr.

In addition, the “Required by Major” courses for Microbiology are:

BSC 304 - Microbiology Lab - 2 cr.

BSC 365 - Introductory Biochemistry - 3 cr.

BSC 443 - Microbial Genetics - 3 cr.

The remaining minimum of 9 elective credit hours are to be chosen from the following:

BSC 320 or 322 if not taken as a required course

BSC 417 - Biostatistics - 3 cr.

BSC 418 - Medical Mycology - 2 cr.

BSC 424 - Animal Parasitology - 4 cr.

BSC 438 - Emerging Infectious Diseases - 3 cr.

BSC 445 - Microbial Ecology - 3 cr.

BSC 446 - Microbial Ecology Lab - 2 cr.

BSC 448 - Introductory Immunology - 3 cr.

BSC 483 - Intermediate Biochemistry - 3 cr.

BSC 480-483 - Special Topics - 1-4 hrs. (requires approval)

## Minor Requirements in Biological Sciences

A student may qualify for a minor in Biological Sciences by successfully completing BSC 120, 121, at least one BSC core course (BSC 302, 320, 322 or 324) and a minimum of 4 additional hours at the 300-400 level. 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.

## CHEMISTRY

**Dr. Michael Castellani, Chair**

[www.marshall.edu/chemistry](http://www.marshall.edu/chemistry)

[chemistry@marshall.edu](mailto:chemistry@marshall.edu)

### Professors

Babb, Castellani, Frost, Hubbard, Norton, Schmitz

### Associate Professors

Morgan, Price, Wang

### Assistant Professors

Day, Kolling, McCunn, O'Connor, Quiñones, Rakus

Courses offered by the Department of Chemistry provide programs of study that allows 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.

## Curricula in Chemistry

**B.S. Degree, Major in Chemistry:** This major in chemistry is intended for students needing a broadly based, flexible science background. The requirements are as follows:

<i>Requirements</i>	<i>Credit Hours</i>
A. Science.....	59-75
Chemistry 211, 212, 217, 218, 305, 355, 356, 361, 307 (or 357 and 358*), 345, 432, 448	33
Upper division Chemistry electives	3
Capstone Experience - Chemistry 490 or 491	2
Mathematics through 229 or 140	3-8
Physics 201-204 or (211, 202, 213, 204)	8
Science and Mathematics electives	10-19
B. General Electives from any college.....	9-21
Students interested in careers in technical sales, management, and marketing in the chemical industry are encouraged to take the following courses as electives: Economics 250, 253, Marketing 340, 440 or 442; Management 320.	

\* In this case, CHM 358 counts as an upper-division elective.

**B.S. Degree, Major in Biochemistry** – Students completing the Biochemistry degree 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.

(continued)

Additionally, Biochemistry is an excellent choice for students preparing for careers in Medicine, Dentistry, Pharmacy, Law or Engineering. The requirements are:

<i>Requirements</i>	<i>Credit Hours</i>
A. Science.....	80-88
Chemistry 211, 212, 217, 218, 305, 355, 356, 361, 345, 307 (or 357 and 358*), 365, 366, 432, 467	72-75
Upper division Chemistry electives†	3
Capstone Experience (Biochemistry Related) - Chemistry 490 or 481	2
Mathematics through either 229 (preferred) or 140	3-5
Physics 201-204 or (211, 202, 213, 204)	8
Biological Sciences 120, 121, 322, 324, and 450	19
B. General Electives from any college.....	11-14

\*Recommended for students considering graduate school, CHM 358 counts as an upper division elective in this major.

†CHM 358 or 411 is recommended for students considering graduate school.

Note: The BSC coursework provides a Biological Sciences minor.

**B.S. Degree, Major in Forensic Chemistry:** This major is intended for students who wish to pursue a career in fields involving forensics. Students are strongly encouraged to engage in a Forensic Chemistry related Capstone Experience (CHM 491). The requirements are:

<i>Requirements</i>	<i>Credit Hours</i>
A. Science.....	80-82
Chemistry 211, 212, 217, 218, 305, 355, 356, 361, 345, 307 (or 357 and 358*), 365, 411, 432	36-40
Upper division Chemistry elective	3
Capstone Experience - Chemistry 490 or 491	2
Mathematics 140 or 229	
Mathematics 225 or 345	6-8
Physics 201-204 or (211, 202, 213, 204)	8
Biology 120, 121 and either 322 or 324	12
Integrated Science and Technology 160, 341 and 445	7
Two courses from IST 340, BSC† 324, 450, or CHM† 428 or 467	6-8
B. General Humanities and Social Science Requirements.....	6
Criminal Justice 314, and either 323 or 422	

\*In this case, CHM 358 counts as an upper-division elective.

†Selection of one of the BSC courses provides a Biological Sciences minor, while selection of the IST course provides an Integrated Science and Technology minor. Chemistry courses may not be counted both as a chemistry elective and in this category.

**B. S. Degree, Major in Environmental Chemistry:** 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 attend Professional training in Law, or Safety, or Industrial Hygiene. The requirements for this major are:

<i>Requirements</i>	<i>Credit Hours</i>
A. Science.....	82-90
Chemistry 211, 212, 217, 218, 305, 355, 356, 361, 307 or (357 and 358*), 365, 411, 423, 432	36-40
Capstone Experience (Environmental chemistry related)- 490 or 491	2
Statistics: either BSC 417, IST 424, or MTH 345	3



Mathematics through 140 or 229	3-5
Physics 201-204 or (211, 202, 213, 204)	8
Biological Sciences 120, 320, and 445	11
Integrated Science & Technology 322 and 323	8
Geology 200	3
Environmental Science Electives^	8
B. General College Humanities and Social Science Requirements .....	3
GEO 416 or 422	

\*Recommended for students considering graduate school, CHM 358 counts as an upper division elective in this major.

^Students should choose at least 8 credit hours from courses in the list below. Courses from a maximum of two departments may be selected. Students wishing a physical science emphasis may take all of the Geology electives and not take either BSC 445 or IST 323.

BSC 431, 446

CHM 467

GLY 320L, 420, 455, 455L, 456, 456L

IST 320, 321

PHY 412

**B.S. in Chemistry Degree, ACS Certified:** 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. The requirements for this degree are:

<i>Requirements</i>	<i>Credit Hours</i>
A. Chemistry.....	45 hours
Principles of Chemistry 211, 212, 217, 218	10
Organic Chemistry 355, 356, 361	9
Physical Chemistry 357, 358	8
Instrumental Methods 411	4
Research Methods in Chemistry 305	1
Introductory Biochemistry 365	3
Inorganic Chemistry 448	4
Capstone Experience - Chemistry 491	6
Seminars 331, 332, 431, 432	CR
B. Physics 211, 202, 213, 204 or equivalent .....	10
C. Mathematics through 231.....	13-16

**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.

## Double Majors

Double majors within the Department of Chemistry may include any majors other than the B.S., Major in Chemistry. Double majors that include majors outside the Department of Chemistry may include any Department of Chemistry majors. For example, the B.S. Major in Chemistry could be used as a double major with any Biological Sciences major.

## Minor in Chemistry

The Department of Chemistry awards a minor in chemistry to students who have completed the following courses with a minimum C average: CHM 211, 212, 217, 218, and any two additional courses chosen from CHM 307, 345, 355, 356, 357, 358, or 448.

## ENVIRONMENTAL SCIENCE

See Integrated Science and Technology.

## FORESTRY AND ENVIRONMENTAL STUDIES

### Cooperative Plan of Study

Marshall University and the Duke University School of the Environment have entered into an agreement whereby a student may spend three years at Marshall followed by two years at Duke. Students who are accepted by Duke for this program pursue one of two degrees: Master of Forestry (M.F.) or Master of Environmental Management (M.E.M.). At the end of the fourth year (minimum of 24 Duke credits) the student may be eligible for the B.S. degree with a major in Biological Sciences from Marshall University. Following the fifth year (minimum total of 48 Duke credits) students may qualify for one of the two professional master's degrees.

Students are normally admitted only at the beginning of the fall term.

Applications to Duke University should be submitted by February 15 preceding the fall in which admission is desired. Duke requires the Graduate Record Examination (GRE) for admission. Students should arrange to take the GRE in the first semester of the junior year.

The curriculum outlined below shows the courses required of students who seek admission to Duke as biology majors at Marshall. Marshall requires a Grade Point Average (GPA) of 2.5 or higher for the three years of on-campus work. Students are strongly encouraged, however, to maintain a GPA of 3.0 or higher to qualify for acceptance into Duke. Students accepted into the program over recent years have had a mean GPA of approximately 3.3. In the fourth year a sufficient number of hours must be successfully completed at Duke to total 128 when added to those already completed at Marshall.

Forestry and Environmental Studies majors are required to meet the Marshall University College of Science requirements for the B.S. degree and to take the following courses:

Biological Sciences 120 and 121	8 hrs.
Biological Sciences 320, 322, and 324	12 hrs.
Chemistry 211, 212, 355-356, and 361	15 hrs.
Chemistry 217 and 218	4 hrs.
Physics 201, 202, 203, and 204	8 hrs.
Mathematics 225 and 229	8 hrs.
Economics 250	3 hrs.

## DEPARTMENT OF GEOLOGY

**Dr. William Niemann, Chair**

[www.marshall.edu/geology](http://www.marshall.edu/geology)

[geology@marshall.edu](mailto:geology@marshall.edu)

### Professors

Martino

### Associate Professors

El-Shazly, Niemann

### Assistant Professor

Scharman

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 non-metallic mining companies as well as petroleum, natural gas, and coal companies. New and challenging careers have recently developed in environmental and engineering geology. The majority of graduates in the past few years have found employment with environmental and geotechnical companies. Other employers include geological surveys, and local, state, and federal regulatory agencies. Career opportunities in the teaching profession at the high school and university level may also be available to those with advanced degrees.

The Department of Geology offers two degree programs (B.A. and B.S.), which have been recognized and approved by the American Institute of Professional Geologists, a national organization that certifies professional geologists.

The Bachelor of Arts degree in Geology is design for those who prefer greater curriculum flexibility, are less certain of their career objects, or who may wish to enter the teaching profession at the junior high or high school level.

The Bachelor of Science degree in Geology is intended for those who wish to directly enter the Geology/Earth Science profession upon completion of the degree or wish to further their education at the graduate level. Coursework can be tailored to emphasize environmental geoscience or fossil fuels.

In addition, the department offers a Bachelor of Science in Geology with emphasis in engineering geology. This area of specialization is one of several that can be pursued and has recently developed as a formal program with its own specific curriculum. It has been added in order 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 of coursework in math, physics, and engineering. By completing this curriculum, candidates would automatically complete the requirements for a minor in engineering.

A second area of emphasis in environmental geoscience has been developed to meet the increased demand for this sector of employment. This area accounts for 30% of all geoscientists who are currently employed in the U.S. and is expected to expand by 21-35% by 2010. The area of emphasis in environmental geoscience utilizes an interdisciplinary curriculum which will prepare graduates for careers involving the application of geologic concepts to the solution of environmental problems. These problems include 1) the protection of human health and natural ecosystems from adverse biochemical or geochemical reactions to naturally occurring chemicals or to chemicals and chemical compounds released into the environment by human activities, and 2) the protection of life, safety and well-being of humans from geological processes such as floods, earthquakes, and landslides through land-use planning.

The department offers local and distant field trips to provide experience in a variety of natural geological settings. Students also have ample opportunity to participate in independent or cooperative research projects with faculty. The Geology Department currently has a working arrangement with the U.S. Army Corps of Engineers which allows students to work part time at the Corps while pursuing their degrees. Geology majors may also participate in Marshall University's cooperative program with the U.S. Army Corps of Engineers. A co-op student's schedule is crafted by the Department of Geology and the Division of the Corps that employs the student. Following the first year, the student alternates semesters of coursework with semesters of work experience. Completion of the cooperative program normally takes five years.

Geology majors can fulfill two requirements of the Core Curriculum with courses from the geology curriculum. Computer Methods in Geology (GLY 430) fulfills the computer literacy requirement. The capstone experience (GLY 491, 492) 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 the geology summer field camp.

High school students interested in geology as a career option are advised to take one year of chemistry, one year of physics or biology, and mathematics through at least geometry, algebra and trigonometry. Courses in physical or earth science are also highly recommended.

## Requirements

*All Majors (including engineering and environmental areas of emphasis):*

Chemistry 211, 212; labs. 217, 218

Biology and Physics -8 hrs. -Biological Science 120; and PHY 201-202 or PHY 211-202 and 203-204

Geology 110 (minimum B grade required) or 200; 210L; 201; 211L; 212; 313; 314; 325; 421 or 423; 430; 451; 451L; 491 and/or 492

Additional requirements for the B.A. Degree:

7-8 additional hours of 300-400 level Geology courses and Math 122 and 130, or Math 132

Total Geology hours: 39-42

*Additional requirements for the B.S. Degree:*

Math 229; recommended: Mathematics 230, 231 - especially for those planning graduate work.

Elective Geology courses: GLY 280; 281; 282; 283; 485; 486; 487; 488; 418; 421; 422; 423; 425; 426; 427; 455 and 455L; 456, 457.

GLY 485-488 may be substituted for required choices with approval from the Chairman of the Department of Geology.

## Requirements for Engineering Geology area of emphasis:

Mathematics 229, 230 .....	9
Chemistry 211, 212, 217, 218 .....	10
Physics 211, 212 (or 202), 213, 214 (or 204).....	10

(continued)

Geology 200, 210L, 201, 211L, 212, 313, 314, 325, 430, 451, 451L, 455, 455L, 456, 457 .....	41
Engineering 107, 213, 216 and 332 .....	13
English: 354 .....	3

A total of 13 hours of engineering coursework is required. Other engineering courses may be substituted (maximum of 7 hours) for the required ones where deemed appropriate by the Geology and Engineering Department Chairs.

All geology areas of emphasis require 2 hours of capstone experience (GLY 491 and/or 492) which will be devoted to a senior thesis, an internship, or a summer field camp. This will involve a research project that will involve the acquisition, analysis, and interpretation of data related to any topic within the scope of engineering geology. A written thesis and oral defense will be required which will need the approval by a majority of geology faculty, including the student's thesis director.

### Requirements for the Environmental Geoscience area of emphasis

I. English Composition	Hours
ENG 354 Scientific & Technical Writing.....	3
II. Social Sciences	
GEO 320 Environmental Geography .....	3
GEO 429 Fundamentals of GIS .....	3
III. Natural Sciences	
PHY 201-204 General Physics.....	8
PS 410 Remote Sensing.....	4
GLY 455, 455L Hydrogeology .....	4
GLY 456, Environmental Geology .....	4
GLY 457 Engineering Geology .....	3
GLY 425 Geochemistry .....	4

The courses listed here do not include College of Science and university requirements.

### Minor in Geology

The Department of Geology awards a minor in geology to any student who has successfully completed, with at least a C average, 12 hours of Geology coursework. At least 9 hours must be in courses at the 200 level or above.

## INTEGRATED SCIENCE AND TECHNOLOGY

**Mr. Brian Morgan, Chair**  
[www.marshall.edu/isat/](http://www.marshall.edu/isat/)  
[isat@marshall.edu](mailto:isat@marshall.edu)

### Professors

Brown (CJC), Cohenford (IST), A. Crews (CJC), G. Crews (CJC), Dameron (CJC), Murray (IST)

### Associate Professors

Armstead (ES), Bora (CJC), Chahryar (CIT), DeTardo-Bora (CJC), Jones (ES), Lim (CIT), Morgan (CIT)

### Assistant Professors

Kim (NRRM), Graefe (NRRM), Sammons (DF/IA), Brunty (DF/IA), Gardner (DF/IA)

### Instructors

Colvin (ES), Shank (ES)

### Adjuncts

Anderson (IST), Bolen (NRRM), Bryson (CJC), Cartwright (IST), Gooding (RBA), Legg (CJC), Litteral (RTI), Mak (NRRM), Parker (CJC)

The Integrated Science and Technology degree program brings together faculty and subject matter from computer and information science, criminal justice and criminology, engineering, communication studies, mathematics, physics, biological sciences, and forensic science to create a unique degree program with the following objectives:

- To create a more effective method of engaging students by presenting the value and excitement of science and technology in today's world;

- To provide for the development of communication skills throughout the curriculum, thus enhancing each student's potential for successful employment;
- To demonstrate the importance of science and technology to the needs of society and relate the issues of society to those who engage in science and technology;
- To integrate the use of computers and expert systems as a curriculum tool to teach decision-making, information gathering, and communication
- To provide a broad, interdisciplinary curriculum that will more fully prepare graduates for changing employment opportunities;
- To create future employees who have solid backgrounds in science and technology as well as the communication and people skills necessary to work in a flexible and changing work environment.

The curriculum in Integrated Science and Technology is designed to provide students with maximum flexibility in choosing and designing majors and areas of emphasis.

The Department of Integrated Science and Technology offers majors in Biotechnology, Computer and Information Technology, and general studies in Integrated Science and Technology. In addition, the following degree programs are housed within the Integrated Science and Technology department:

- Criminal Justice
- Digital Forensics and Information Assurance
- Environmental Science
- Natural Resources and Recreation Management

See those specific program descriptions for details.

All students complete an initial IST core of courses, which focuses on technological, scientific and quantitative skills. A strategic sector intensively immerses learners in the content and skills of their major. The senior capstone experience focuses on student research and project management. IST courses are intensively “hands-on” and include both problem and project-based learning. Students within programs under Integrated Science and Technology do not have to complete a minor, although, students will have the opportunity to do so.

Students in the Department of Integrated Science and Technology can enrich their studies by completing areas of emphasis in Game Development, Computer Forensics, Web Development, Computer Application Development, or Transportation Technology.

## 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.

## Program Components

The IST program has four major components:

- General education requirements include “connections” courses that examine the relationships between society and science and technology; Core I and Core II core curriculum requirement courses in the liberal and fine arts, social sciences, math, communications, humanities, and critical thinking; and a public service/volunteer experience.
- Core IST courses are analytical methods, instrumentation, and issues in Science and Technology.
- Strategic Sector courses, taken in the junior year, allow students to begin work toward their concentration while being exposed to other areas of the program and the university.
- Concentration courses replace the traditional major, and include a two-semester senior “capstone” project, which can be a research project, development of software, a thesis, or other project approved by the student's advisor and which serves as a culmination of the student's work in the field.

The Integrated Science and Technology degree is a four-year program that requires a minimum of 120 credit hours.

## BACHELOR OF SCIENCE DEGREE IN INTEGRATED SCIENCE AND TECHNOLOGY

### DEGREE REQUIREMENTS

**Hours**

GENERAL EDUCATION .....28-30

See the College of Science section for requirements.

(continued)

CORE IST COURSES.....	22-26
Connections.....	6
IST 120: Connections I (CT) (3)	
IST 220: Connections II (CT) (3)	
Analytical Methods.....	7-9
Statistics: IST 130 Analytical Methods I:Statistics (4)	
Mathematics: MTH 140: Applied Calculus (3) or MTH 229: Calculus I (5)	
For Criminal Justice and Natural Resources and Recreation Management majors, MTH 121 and MTH 130 (or MTH 127 or higher) fulfill the College of Science requirement for math. (Effective Spring 2014, MTH 160 will fulfill the math requirement.)	
Issues in Science and Technology.....	12
4 credit hours of Issues in Science (see degree-specific requirement)	
IST 150: Spreadsheet and Database Principles (3)	
IST 264: Technology Foundations (3)	
IST 301: Public Service (1) (Note: (Note: Natural Resource and Recreation Management and Criminal Justice students earn public service credit in their major courses and are exempt from IST 301.)	
SCIENCE or TECHNICAL ELECTIVES .....	12-18
See the specific course plans for the desired major/program of study for specifics.	
STRATEGIC SECTOR/CONCENTRATION.....	36-51
Students choose from the following majors: Biotechnology, Computer and Information Technology, Criminal Justice, Digital Forensics, Environmental Science, Integrated Science and Technology, or Natural Resources and Recreation Management. See the specific course plans for the desired major/program of study for specifics.	
CAPSTONE EXPERIENCE .....	3-6
IST 490: Senior Project I and IST 491: Senior Project II; or IST 470: Internship; or PLS 490: Internship; or CJ 492: Senior Seminar	
ELECTIVES/TECHNICAL ELECTIVES.....	0-21
<b>TOTAL CREDIT HOURS FOR GRADUATION .....</b>	<b>120</b>
(a minimum of 40 hours must be 3-400 level)	

## INTEGRATED SCIENCE AND TECHNOLOGY DEPARTMENT MAJORS, AREAS OF EMPHASIS AND MINORS

- Majors are specific degree programs of study within the Department of Integrated Science and Technology.
- Areas of Emphasis are specific focuses recognized on a student's transcript within majors in the Department of Integrated Science and Technology.
- Minors are 12-15 hours of courses offered by the Department of Integrated Science and Technology, but not all minors are open to students majoring in a degree program offered by the IST Department. CJC majors can minor in any minor offered under IST, but CIT majors cannot minor in CIT-designated minors, etc. Please consult your advisor for specifics.

## MAJOR IN INTEGRATED SCIENCE AND TECHNOLOGY

In the IST major, students develop a plan of study that includes all requirements listed for the IST general degree and an area of emphasis chosen from the above list. Students also enrich their degree program with the extensive resources available at the university, including minor and certificate options.

## SPECIALIZED MAJORS

### Major in Biotechnology

A major in biotechnology provides students with a technical, specialized program with a strong core curriculum in Chemistry and Biology. The program is tailored to provide the type of educational environment that prepares the students of today and tomorrow for careers in the biopharmaceutical and the diagnostic industry, forensics, health sciences, research and medicine. Emphasis is placed on hands training and ability to utilize the modern tools of science to harness the natural and biological capabilities of plants, animals, and microbes for the benefit of man and exposes students to the modern tools of molecular biology, immunology and biochemistry as well as to such disciplines as bioinformatics, molecular diagnostics,



molecular genetics, genetic engineering and protein biotechnology. Required courses include: IST 241, 340, 341, 342, 343, 443; CHM 211, 212, 217, 218; BSC 120, 417.

The pre-professional specialization includes traditional science and math courses required by most professional programs such as medical school, genetic counseling or graduate school. These include: BSC 322 & 365, CHM 355-356 & 361, PHY 201-204 and MTH 229. The Applied Research specialization prepares students for a career in the biotechnology industry, forensic DNA analysis or university research laboratories and allows for greater freedom in choosing elective courses.

### **Major in Computer and Information Technology**

Just what is a major in Computer and Information Technology? 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. Graduates are able to specialize in one of four areas:

- computer application development
- web application development
- computer forensics
- game development

CIT graduates' skills are highly marketable and graduates are prepared for careers in literally any of today's industries that use IT. 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.

IST faculty work to help students develop:

- communication, critical thinking and team skills through collaborative learning
- real-life employable skills through hands-on experience
- provide 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 application development, computer forensics, and game 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 Visual Basic .NET, 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. A major in Computer and Information Technology provides a solid grounding in the information technology field and allows students to select and complete an area of emphasis in computer application development, computer forensics, web application development, or game development. See a specific area of emphasis for course requirements.

Required courses include: IST 120, 163, 212, 220, 224, 260, 263, 264, 362, 365; MGT 320. Remainder of requirements come from selected area of emphasis.

### **Major in Criminal Justice**

The Criminal Justice and Criminology program 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 Criminal Justice and Criminology program 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.

(continued)

**Please note that the Criminal Justice curriculum changed for incoming majors as of Fall 2013.**

A candidate for a Bachelor of Arts degree in Criminal Justice must fulfill the general education requirement of the College of Science (with the exception of calculus), the degree requirements of the Department of Integrated Science and Technology, and the specific requirements listed below for the major in Criminal Justice.

A major in criminal justice consists of 36 total credits: 12 credits of Core CJ Requirements and 24 credits of CJ electives, selected by the student in consultation with a CJC Advisor. With these electives, students can craft a program of study that suits their interests and career goals. We have identified three primary areas (Law Enforcement, Legal Studies, and Corrections) in which students may wish to focus their elective choices and identified eight suggested courses in each area that students may wish to select. Students interested in a more generalized major should choose eight elective courses that suit their needs and career goals. Please see the Courses of Instruction section to determine which courses have prerequisites.

**CJ Core Requirements (12 cr.)**

CJ 200: Introduction to Criminal Justice (3 cr.)

CJ 302: Criminal Justice Research Methods\* (3 cr., prerequisite: CJ 200)

CJ 404: Theoretical Criminology (3cr., prerequisite: CJ 200)

CJ 492: Senior Seminar (3 cr., prerequisites: CJ 200, CJ 302, CJ 404)

\*Fulfills IST's statistics requirement.

**CJ Electives (24 cr.)**

- Suggested Electives for Students Interested in Law Enforcement: CJ 211, CJ 312, CJ 314, CJ 323, CJ 400, CJ 406, CJ 410, and CJ 490. Other options may include, but are not limited to: CJ 241, CJ 300, CJ 316, CJ 322, CJ 325, CJ 326, CJ 340, CJ 351, CJ 426, CJ 440, and Special Topics.
- Suggested Electives for Students Interested in Legal Studies: CJ 221, CJ 223, CJ 322, CJ 323, CJ 421, CJ 422, CJ 423, and CJ 490. Other options may include, but are not limited to: CJ 241, CJ 316, CJ 325, CJ 326, CJ 400, CJ 406, CJ 426, CJ 440, and Special Topics.
- Suggested Electives for Students Interested in Corrections: CJ 231, CJ 325, CJ 331, CJ 400, CJ 406, CJ 421, CJ 433, and CJ 490. Other options may include, but are not limited to: CJ 241, CJ 300, CJ 332, CJ 340, CJ 426, and Special Topics.

**Major in Digital Forensics**

The Bachelor of Science in Digital Forensics and Information Assurance program prepares students to meet these challenges of today's cyber threats. Digital forensic and information assurance 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.

Hands-on labs and experiences are a central part of the program. Students are exposed to a wide array of professional tools including hardware and software. As part of the curriculum, students will sit for the AccessData Certified Examiner test. This provides students with the opportunity to leave the university with a degree and a sought-after real world credential.

Students are given the opportunity to apply for multiple internship opportunities that afford them the chance to gain even more hands-on experience.

Emphasis is placed on hands training and ability to utilize modern tools to find electronic evidence for the purpose of civil litigation and law enforcement and to defend computer network from intrusion. In addition to those courses required within the IST Department, required courses include: IST 163, 260, 261, 263, 362, 363, 447, 448, 449, 462, 463, 464, 467; MGT 320; CJ 326; ENG 354; and MIS 420.

Transfer students with prior college experience can receive equivalent credit for required courses. A minor in a relevant field of study such as Business or Criminal Justice would be recommended.

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 IST department chair. The background check is done at the student's expense.

**Major in Environmental Science**

The Bachelor of Science in Environmental Science degree is an integrated program requiring math, communication, and environmental studies courses from the Integrated Science and Technology program, basic science courses from Geology, Biology, Chemistry, and Physics departments, and course options in Business and Liberal Arts.

Students in Environmental Science must complete 20 hours of Environmental Studies courses from the IST curriculum, 25 hours of basic science and 16 hours of upper level (300 or 400) science courses. Transfer students with prior college experience can receive equivalent credit for required courses.

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 recommended for Environmental Science majors.

*Basic Science Requirements:*

CHM 211, 217, 212, and 218; one of IST 111, BSC 104, BSC 120 or equivalent (BSC 120 required, if Environmental Science majors plan to take 300-400 level BSC courses); IST 212 or PHY 201 with lab; GLY 200

*Upper-Level Science requirements:*

Students must complete 15 hours of 300 or 400 level coursework from the Chemistry, Biology, Geology, or Physics Departments as approved in consultation with their advisor, or an approved plan of study focusing on technology and sustainability systems.

*IST Environmental Studies Requirements:*

IST 120, 130, 220, 260, 321, 322, 323, 423, 435, 490, 491 or 470, plus three hours of an IST environmental studies course elective.

## **Major in Natural Resources and Recreation Management**

The Natural Resources and Recreation Management program offers a B.S. in Natural Resources and Recreation Management, focusing on natural resource management for natural areas, resources, parks, and protected areas, as well as natural areas recreation.

The NRRM degree is an interdisciplinary Bachelor of Science degree, in which students will study the fields of natural resource management, environmental science, environmental studies, biology, sociology, psychology, and business.

Natural Resources and Recreation Management prepares qualified professionals for employment in nature centers, municipal, state, or national parks, with land conservation organizations, the US Forest Service, Army Corps of Engineers, resident and day camp institutions, as well as zoos, living history museums, and a variety of tourism entities to name a few.

*NRRM Core Foundations:*

All Natural Resources and Recreation Management majors are required to take these courses: PLS 101, 231, 310 or 311, 361, 402, 411, 432, 433; IST 322 or 323 or PLS 405, and 12 credit hours of 300-400 level PLS courses; PLS 490: Internship (dual majors may choose IST490/491); MTH 127 or MTH 130 or MTH 160. (*Note:* Natural Resource and Recreation Management students earn public service credit in their major courses and are exempt from IST 301.)

*Electives:*

Based on the degree requirements listed previously, students have 23 hours of electives to complete; however, IST 423 (or equivalent) is a prerequisite to PLS 433 and should be taken as part of the electives. The student also must complete 8 additional hours of Natural or Physical Science credits to meet the College of Science requirement. Electives must be approved by student's NRRM faculty advisor.

## **MINORS**

### **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.

### **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. Students must complete 15 hours, including IST 264, three courses of the sequence in Digital Forensics (IST 447, 448, 449, 463), and CJ 326.

### **Criminal Justice Minor**

A minor in Criminal Justice consists of 15 hours of courses, CJ 200 and 12 other hours. These hours should be chosen with the assistance of a Criminal Justice advisor.

### **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 Integrated Science and 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.

Required Courses for this minor (18 hours): IST 163, 236, 360, 438, 439, and 460.

## **Integrated Science and Technology Minor**

Students interested in a minor must complete at least 12 credit hours of work, which may be from any courses offered by the IST program. Six hours of coursework must be at the 300 or 400 levels. For specific suggestions of courses, consult the faculty or the IST department website ([www.marshall.edu/isat](http://www.marshall.edu/isat)).

## **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 (15 credit hours):

PLS 101 .....	3
One of the following courses: 301, 330, or 350.....	3
One of the following courses: 360, 361, or 362.....	3
One of the following courses: 401, 410, or 411.....	3
One of the following courses: 310, 311, 431, or 432.....	3

## **Web Development Minor**

Students are introduced to XHTML, 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. This minor consists of 15 hours of courses, which include: IST 263, 264, 365, 430, and 436.

## **AREAS OF EMPHASIS**

### **Computer Application Development Area of Emphasis**

Focus is 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++, VB.NET and C#. Students also learn to specify, design, and build large-scale software systems for existing hardware.

Courses for this area of emphasis include the core IST/CIT requirements, plus IST 236, 238, 303, 332, 333, 334, 423, and 430.

### **Computer Forensics Area of Emphasis**

This emphasis is a result of collaboration among Marshall University's Department of Criminal Justice, Department of Integrated Science and Technology, and Forensic Science degree program. The study of Computer Forensics prepares students for careers in the identification, preservation, examination and analysis of evidence from computers and other electronic devices including e-Discovery, law enforcement, civil litigation, military, intelligence, and private industry. This area of emphasis focuses on the identification, preservation, examination, analysis and presentation of evidence from computers and other electronic devices.

Courses for this area of emphasis include the core IST/CIT requirements, plus the following courses: IST 363, 447, 448, 449, 463, 464; and CJ 326.

### **Environmental Assessment and Policy Area of Emphasis**

This area of emphasis focuses on the establishment and study of a green and sustainable world. This area is appropriate for those interested in how environmental data are collected and analyzed and how decisions are made to protect environmental quality. Coursework includes a solid foundation in the most current analytical and technological methods for environmental analysis. Environmental mapping and modeling are used extensively in the study of both terrestrial and aquatic systems.

Specific courses required include GLY 200; CHM 203, 204; IST 320, 321, 322, 323; MGT 320; PSC 333; IST 423, 424, and 425.

### **Game Development Area of Emphasis**

Game development is a very popular venue in higher education. This area of emphasis combines sound principles of computer application development with computer game development. This connection between application development and game development better serves students who are coming to Marshall University with aspirations of developing computer and console games. Game development is not limited to the PC as we are teaching PC game development, console game development, and mobile game development.

A computer is dedicated to gaming (Marshall's Advanced Gaming and Interactive Computing Lab - MAGIC Lab). Students will utilize the environment to play different types of computer games, to research the latest trends and graphics, and to discuss gaming. The space will also be available to students designing and developing their own games for courses taught in the area of emphasis and for their senior project, which will consist of the development of an advanced computer game.

Courses for this area of emphasis include the core IST/CIT requirements, plus IST 236, 238, 303, 332, 360, 438, 439, and 460.

### **Transportation Technology Area of Emphasis**

In addition to the general Environmental Science degree, there is also a Transportation Technology area of emphasis. This area of emphasis integrates knowledge and skills from the environmental sciences with specific course content related to the development and environmental assessment of transportation systems. Area of emphasis includes basic skills in survey techniques, advanced coursework in GIS, the integration of GIS with CAD applications, and the design and operation of transportation systems.

### **Web Application Development Area of Emphasis**

The Web application development area of emphasis allows students to specialize in developing Web applications and content using web-based development languages, such as HTML5, PHP, ASP.Net, CSS, JavaScript, and the effective design and organization of databases, including the development of fully functional e-commerce systems.

Courses for this area of emphasis include the core IST/CIT requirements, plus IST 236, 332, 363, 423, 430, 436, and 466.

Through a unique opportunity and collaboration with the Graphics Design department in the College of Arts and Media, students within the Web Application Development area of emphasis may also obtain a minor in graphics design by taking 18 approved hours of ART courses.

## **MATHEMATICS**

**Dr. Alfred Akinsete, Chair**

[www.marshall.edu/math/](http://www.marshall.edu/math/)  
[math@marshall.edu](mailto:math@marshall.edu)

### **Professors**

Adkins, Akinsete, Aluthge, Brooks, Carlton, Cusick, Drost, Lawrence, Mitchell, Pupplo-Cody, Rubin, Sarra, Saveliev, Silver

### **Associate Professors**

Horwitz, Karna

### **Assistant Professors**

Jung, Mallick, A. Mummert, C. Mummert, Niese, Sanyal, Schroeder

### **Instructors**

Briscoe, Crytzer, Mace, Marsh, Miller, Scudder, Stapleton, Subedi, Tivener

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 major.

### **Mathematics, Applied Mathematics and Statistics Major Requirements**

Any of the majors requires 14 mathematics/statistics courses, a minimum of 47 credit hours. Students with a second major or a minor outside of the Department of Mathematics can count some of those credit hours towards their Mathematics, Applied Mathematics or Statistics major. This is explained in the section on Elective Requirements below.

Since the major is quite flexible, students are expected to consult with an advisor in the department. Moreover, before graduation, the advisor must approve the selection of sequences and electives.

(continued)



**Core Requirements for All Majors (21 CH; 5 courses)**

The following are required for majors in Mathematics, Applied Mathematics and Statistics:

MTH 229	(5 CH)	Calculus with Analytic Geometry I
MTH 230	(4 CH)	Calculus with Analytic Geometry II
MTH 231	(4 CH)	Calculus with Analytic Geometry III
MTH 300	(4 CH)	Introduction to Higher Mathematics
MTH 331	(4 CH)	Linear Algebra

**Capstone Requirement for All Majors (2 CH; 1 course)**

Mathematics, Applied Mathematics and Statistics majors must complete one of the following:

MTH 490	(2-12 CH)	Internship
MTH 491	(2 CH)	Senior Seminar

**Sequence Requirements for Mathematics Majors (12 CH; 4 courses)**

Mathematics majors must complete two of the following elective sequences:

MTH 427 and MTH 428	Advanced Calculus
MTH 430 and MTH 431	Topology
MTH 450 and MTH 452	Modern Algebra
MTH 460 and MTH 461	Complex Variables

**Sequence Requirements for Applied Mathematics Majors (12 CH; 4 courses)**

Applied Mathematics majors must complete two of the following elective sequences:

MTH 335 and	
(MTH 415 or MTH 416)	Differential Equations
MTH 442 and MTH 443	Numerical Methods
MTH 445 and MTH 446	Probability and Statistics
MTH 460 and MTH 461	Complex Variables

**Core Requirements for Statistics Majors (15 CH; 5 courses)**

Statistics majors must complete the following courses:

MTH 326	Applied Statistical Methods
MTH 412	Regression Analysis
MTH 413	Experimental Designs
MTH 445 and MTH 446	Probability and Statistics

**Elective Requirements for All Majors (0–12 CH; 0–4 courses)**

Mathematics, Applied Mathematics, and Statistics majors are not required to satisfy the College of Science requirement of a minor in another discipline. However, Mathematics, Applied Mathematics, and Statistics majors often elect to complete a second (or more) major(s) and/or one (or more) minor(s). The Department of Mathematics encourages students to pursue broad interdisciplinary studies. The elective courses in this section may not duplicate those used for the sequence requirements. The number of elective courses required depends on outside minors and majors. The following are the three options:

- (1) **No Outside Major or Minor:** A student may graduate with a major in either Mathematics or Applied Mathematics, without a second major or a minor, by completing an additional 4 elective mathematics courses from the list of elective courses. The major requires 47 credit hours. Also, a student may graduate with a major in Statistics, without a second major or a minor, by completing an additional 3 elective mathematics courses from the list of elective courses. The major requires 47 credit hours.
- (2) **Outside Minors:** A student graduating with a single major in Mathematics, Applied Mathematics, or Statistics, and at least one minor outside the department, must complete at least 2 additional elective mathematics courses from the list below. Statistics Majors must choose these electives from the statistics/probability courses listed below. Effectively, the Mathematics Major and Applied Mathematics Major require 41 credit hours and the Statistics Major requires 44 credit hours.
- (3) **Outside Double Majors:** A student graduating with multiple majors, including either Mathematics or Applied Mathematics, need not take any additional elective mathematics courses. A student pursuing multiple majors, including Statistics, needs one (1) additional elective statistics/probability course. Effectively, the Mathematics major and Applied Mathematics major require 35 credit hours and the Statistics major requires 41 credit hours.



### Elective Courses for All Majors

MTH 326 (3CH), Applied Statistical Methods  
MTH 335 (4 CH), Differential Equations  
MTH 405 (3 CH), History of Mathematics  
MTH 411 (3 CH), Mathematical Modeling  
MTH 412 (3 CH), Regression Analysis  
MTH 413 (3 CH), Experimental Designs  
MTH 415 (3 CH), Partial Differential Equations  
MTH 416 (3CH), Advanced Differential Equations  
MTH 420 (3 CH), Nonparametric Methods  
MTH 422 (3CH), Time Series Forecasting  
MTH 425 (3CH), Sampling Designs and Estimation  
MTH 427 (3 CH), Advanced Calculus I  
MTH 428 (3 CH), Advanced Calculus II  
MTH 430 (3 CH), Topology I  
MTH 431 (3 CH), Topology II  
MTH 440 (3 CH), Discrete Mathematics  
MTH 442 (3 CH), Numerical Linear Algebra  
MTH 443 (3 CH), Numerical Analysis  
MTH 445 (3 CH), Probability and Statistics I  
MTH 446 (3 CH), Probability and Statistics II  
MTH 448 (3 CH), Modern Geometry  
MTH 449 (3 CH), Projective Geometry  
MTH 450 (3 CH), Modern Algebra I  
MTH 452 (3 CH), Modern Algebra II  
MTH 455 (3 CH), Number Theory  
MTH 460 (3 CH), Complex Variables I  
MTH 461 (3 CH), Complex Variables II  
MTH 464 (3CH), Statistical Computing  
MTH 466 (3CH), Stochastic Processes

### Double Majors

#### 1. 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.

#### 2. Statistic and Mathematics Double Major or 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 additional 9 credit hours are required from the list of elective courses, with no less than 6 credit hours of these chosen from among the probability and 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/probability courses from the elective courses, not already listed under the Core Requirements for Statistics Majors.

Effectively, any of the double majors requires 59 credit hours; no credit will derive from an outside major or minor.

### Area of Emphasis in Mathematical Statistics

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 15CH in statistics/probability 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:

Core Required Courses (27 CH, 7 Courses)

MTH 229 (5 CH), Calculus with Analytic Geometry I

MTH 230 (4 CH), Calculus with Analytic Geometry II

(continued)

MTH 231 (4 CH), Calculus with Analytic Geometry III  
MTH 300 (4 CH), Introduction to Higher Mathematics  
MTH 331 (4 CH), Linear Algebra  
MTH 445 (3 CH), Probability and Statistics I  
MTH 446 (3 CH), Probability and Statistics II

Elective Courses with permission (9 CH):

Any three additional courses from the following electives

MTH 326 (3 CH), Applied Statistical Methods  
MTH 412 (3 CH), Regression Analysis  
MTH 413 (3 CH), Experimental Designs  
MTH 420 (3 CH), Nonparametric Methods  
MTH 422 (3 CH), Time Series Forecasting  
MTH 464 (3 CH), Statistical Computing  
MTH 466 (3 CH), Stochastic Processes

### **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 score in Mathematics 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, MTH 130, or MTH 132) 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. Students who score 4 or 5 on the Calculus AB examination are given credit for Mathematics 130 and Mathematics 229, and those who score 4 or 5 on the Calculus BC examination are given credit for Mathematics 229 and Mathematics 230. Students who score 3 on BC are given credit for MTH 229; those who score 3 on AB are given credit for Mathematics 132.

### **Teacher Certification in Mathematics**

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 an advisor in Mathematics about a second major in Applied Mathematics or Mathematics. Mathematics Education majors may count MTH 450 and (MTH 335 or MTH 427) as a sequence toward the Applied Mathematics Major.

### **Master of Arts**

The Department of Mathematics also offers an M.A. degree program in mathematics. Graduate assistantships carrying stipends and tuition waivers are available. Please contact the Mathematics department or consult the *Graduate Catalog* for further details.

### **Minor in Mathematics**

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: MTH 229, MTH 230, MTH 300, and one of the following: MTH 231, MTH 329, MTH 331, MTH 345, MTH 405, MTH 430, MTH 440, MTH 448, MTH 449, MTH 450, or MTH 455.

### **Minor in Statistics**

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 15 credit hours. The student must have at least 2.0 grade point average, and a grade of C or better in the required core courses (6 credit hours), and three additional courses (9 credit hours) chosen with permission from the list of elective courses. At least 9 credit hours of the required 15 credit hours must be taken at Marshall University.

**Core Required Courses (6 CH)**

MTH 225 Introductory Statistics

MTH 326 Applied Statistical Methods

**Elective Courses with permission (9 CH)**

Any three additional courses from the following electives:

MTH 325 (3 CH) Survey Sampling Methods

MTH 412 (3 CH) Regression Analysis

MTH 413 (3 CH) Experimental Designs

MTH 420 (3 CH) Nonparametric Methods

MTH 422 (3 CH) Time Series Forecasting

MTH 425 (3CH), Sampling Designs and Estimation

MTH 445 (3 CH) Probability and Statistics I

MTH 446 (3 CH) Probability and Statistics II

MTH 464 (3 CH) Statistical Computing

MTH 466 (3 CH) Stochastic Processes

## **PHYSICS**

**Dr. Nicola Orsini, Chair**

***[www.marshall.edu/physics](http://www.marshall.edu/physics)***

***[physics@marshall.edu](mailto:physics@marshall.edu)***

**Professor**

Oberly, Orsini, Wilson

**Associate Professor**

Babiuc, Fan, Nguyen

**Assistant Professor**

Foltz, Richards, Saken, Winfrey

The Department of Physics and Physical Science 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, or Medical Physics. We also offer a Minor in Physics, a B.A. degree in physics with courses of study toward teaching certification for middle and high school, courses in support of other programs in science and technology, and courses for general education.

Our Physics program offers a well-rounded education, and is a strong basis to build different career paths. Our degree prepares students for careers in industry and government laboratories, in physics or other science-related fields; for further schooling toward advanced degrees in Physics, Astronomy, Engineering, Medicine, or Law; or for employment as science teachers.

Majors in physics must demonstrate to the department faculty fundamental skills in utilizing computers, which include using software packages for data analysis and word processing, interfacing experiments for data collection, and computer modeling. Students lacking these skills can fulfill this requirement by taking appropriate courses that have the approval of the Department of Physics and Physical Science. A 2.00 Overall GPA and a 2.00 Major GPA are required to graduate.

In addition to the general Marshall University requirements, specific requirements for the B.S. degree in physics are:

**B.S. Degree, Major in Physics**

*Designed for those who are interested in future study or work in a pure physics or physics-related field.*

1. Physics 211 and 202, 213 and 204
2. Eight (8) additional semester hours in Physical or Natural Science Electives, required by the College of Science

*(continued)*

3. Physics 300, 302, 308, 320, 330, 421, 442, 443, 445, and 491/492 (capstone).
4. Eight (8) additional semester hours of 300-400 physics courses selected from the catalog, including at least two (2) hours of advanced laboratory.
5. Mathematics 229, 230, 231, 335.

The BS degree in physics with areas of emphasis already includes the basic science courses that will fulfill college requirements of eight hours in a second/third science, so that these are not an extra requirement.

#### **B.S. Degree, Major in Physics, Area of Emphasis Applied Physics**

*Designed for those who are interested in future study or work in an applied physics or engineering field.*

1. Physics 211 and 202, 213 and 204
2. Chemistry 211 and 217, IST 163, and ENGR 111, fulfilling the COS requirements
3. Physics 300, 308, 320, 330, 421, 442, 445, IST 236 and 238, and Physics 491/492 (capstone).
4. Six (6) additional semester hours of 300-400 courses selected from the catalog, including two (2) hours of advanced laboratory. We recommend 3 hours physics courses (PHY 425 suggested) and 3 hours IST/ENGR courses (IST 303 suggested)
5. Mathematics 229, 230, 231, 335.

#### **B.S. Degree, Major in Physics, Area of Emphasis in Bio Physics**

*Designed for those who are interested in future study or work in a biophysics or biotechnological field.*

1. Physics 211 and 202, 213 and 204
2. Chemistry 211 and 217, 212 and 218, Biology 120 and 121, fulfilling the COS requirements
3. Physics 300, 308, 320, 330, 421, 442, 445, Biology 302 and 304, and Physics 491/492 (capstone).
4. Eight (8) additional semester hours of 300-400 courses selected from the catalog. We recommend 4 hours physics courses (PHY 350 suggested) and 4 hours BSC courses (BSC 320 suggested)
5. Mathematics 229, 230, 231.

#### **B.S. Degree, Major in Physics, Area of Emphasis Medical Physics**

*Designed for those who are interested in going to the medical school, or work in a biochemical physics field.*

1. Physics 211 and 202, 213 and 204
2. Chemistry 211 and 217, 212 and 218, Biology 120 and 121, fulfilling the COS requirements
3. Physics 300, 308, 320, 330, 421, 442, Chemistry 355, 356, 361, and Physics 491/492 (capstone).
4. Eight (8) additional semester hours of 300-400 courses selected from the catalog. We recommend 4 hours physics courses (PHY 350 suggested) and 4 hours BSC courses (BSC 322 suggested)
5. Mathematics 229, 230, 231

#### **Related Programs Supported by the Department**

Please see the College of Education section for the requirements for the B.A. in Education (Physics or General Science).

#### **Minor in Physics and Physical Science**

The Department of Physics awards a minor in physics to students who have completed the following courses with at least a C average: PHY 201 (or 211), 202, 203 (or 213), 204, and any two additional physics or physical science courses at the 300-400 level.

Among the coursework options open to physics and other science majors are applied physics courses which emphasize applications of Optics (PHY 304, PHY405), Solid State Physics (PHY 425), Electronics (PHY 314 and PHY 415), Biomedical Physics (PHY 350), Atmospheric Physics (PHY 412), Labview (PHY 120) as well as Special Topic and Independent Study courses.

## **PREPARATION FOR PROFESSIONAL CAREERS IN THE HEALTH CARE PROFESSIONS**

Even though many freshmen plan to major in pre-medicine, it is not a major. It is a path through a major by which the student acquires a solid science background in preparation for application to the professional school of choice. Students interested in the health care professions may choose any major provided they complete the required science block. However, choosing a science major gives the applicant the advantage of greater scientific breadth and depth of knowledge over non-science majors on the Medical College Aptitude Test (MCAT) or other entrance exams. Since the required science courses

coincide closely with requirements for the biology or chemistry major a large percentage of successful applicants choose one of those two areas. Many routes will prepare the student for the MCAT or other entrance exam and for the first two years of basic sciences in the medical or other health care curriculum

Since the same required science block must be completed by students preparing for careers in medicine, osteopathic medicine, dentistry, pharmacy, podiatry, optometry, or veterinary medicine, flexibility can be maintained in the selection of a career choice until the junior year. Applicants must take the following:

*Pre-Health Care Required Science Block*

BSC 120, 121

CHM 211, 212, 217, 218, 355, 356, 361

PHY 201, 202, 203, 204

The required science block must be regarded as a minimum. Building a science major around this nucleus of courses 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 requirements and course recommendations for the institutions to which he or she intends to apply and incorporate required courses into the curriculum. Elective courses can be chosen that simultaneously meet both the requirements for the major and admission to the professional school of choice. With careful planning the required and recommended courses can be combined with the coursework for the major directing the steady progress toward both application to professional school and graduation with the baccalaureate degree. Check with your advisor frequently for guidance and assistance.

Undergraduate requirements, admissions testing, application processes, and the requirement for an interview vary considerably among the professional programs. Therefore, it is strongly recommended that pre-professional students discuss their programs at least once each semester with Dr. H.W.Elmore, chief health care professions advisor, in Science Building 270. For current information, visit [www.marshall.edu/preprof](http://www.marshall.edu/preprof).

## **PRE-HEALTH CARE PROFESSIONAL PROGRAMS**

The requirements listed below are based on the standards for admission to West Virginia health care professional programs or those of contract states with whom West Virginia has agreements for West Virginia students to attend out-of-state institutions.

Because there may be specific requirements that vary among institutions and are subject to change, students should use the lists only for comparison of programs during the initial selection of the career path to follow. Students should frequently consult the pre-health care professional web site at [www.marshall.edu/preprof/](http://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 assigned pre-health care professional advisor is highly recommended.

### **PRE-DENTAL (3 or 4 years)**

*Courses:* Biological Science (BSC) 120, 121  
Chemistry (CHM) 211, 212, 217, 218, 355, 356, 361  
English (ENG) 101, 102  
Physics (PHY) 201, 202, 203, 204

*Exams:* DAT in the spring of sophomore year for 3-year students or during junior year for 4-year students

### **PRE-MEDICINE (3 or 4 years)**

*Courses:* Biological Science (BSC) 120, 121  
Chemistry (CHM) 211, 212, 217, 218, 355, 356, 361  
Physics (PHY) 201, 202, 203, 204  
Social and Behavioral Science: PSY 201 and SOC 200  
are recommended

*Exams:* Applicants must complete the MCAT, preferably in fall before entry into the medical school. However, in some cases the exceptional student, after counseling with his/her advisor, may choose to take the MCAT during the spring semester of the sophomore year

*Other Courses:* Follow catalog for degree requirements B.S. or B.A.

*Recommended Electives:* BSC 301, 302, 310, 322, 422; CHM 365

### **PRE-OPTOMETRY (3 years)**

*Courses:* Biological Science (BSC) 120, 121 and 250 or 302  
Chemistry (CHM) 211, 212, 217, 218, 355, 356, 361  
English (ENG) 101, 102

(continued)



Physics (PHY) 201, 202, 203, 204

Psychology (PSY) 201

*Exams:* The Optometry Admission Test (OAT) must be completed, preferably in fall before entry into the optometry program.

*Other Courses:* Check carefully catalog of Optometry College. Requirements vary.

*Recommended Electives:* BSC 227, 228, 300, 322, 324; CHM 365; PSY 311 or 440

### **PRE-PHARMACY (3 or 4 years)**

*Courses:* Biological Science (BSC) 120, 121

Chemistry (CHM) 211, 212, 217, 218, 355, 356, 361

Communications (CMM) 103

Economics (ECN) 250

English (ENG) 101, 102

Physics (PHY) 201, 202, 203, 204

*Exams:* The Pharmacy College Admission Test must be completed, preferably in fall before entry into the pharmacy program.

### **PRE-PHYSICAL THERAPY (4 years)**

*Courses:* Biological Science (BSC) 120, 121, 227, 228

Chemistry (CHM) 211, 212, 217, 218

English (ENG) 101, 102

Mathematics (MTH) 130 or 127 and 122

(requirement may also be met by 132, 140 or 229); 225

Physics (PHY) 201, 202, 203, 204

Psychology (PSY) 201, 311

Medical Terminology (AH) 151

*Exams:* AHPAT – junior/senior year

*Other Requirements:* 60 hours of clinical volunteer or work experience in a physical therapy setting is required for admission.

### **PRE-VETERINARY MEDICINE (4 years)**

*Courses:* Biological Sciences (BSC) 120, 121, 250 or 302

Chemistry (CHM) 211, 212, 217, 218, 355, 356, 365

Genetics (BSC) 324

Physics (PHY) 201, 202, 203, 204

*Exams:* MCAT, VAT, or GRE plus GRE Advanced Biology Section

*Other Courses:* Follow catalog for degree requirements for a B.S. or B.A.

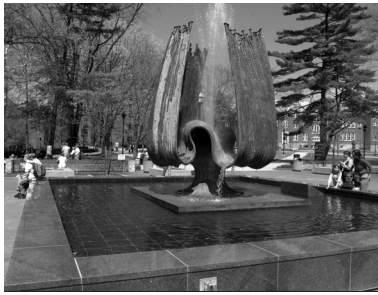
*Recommended Electives:* BSC 322, CL 200, SOC 200, BSC 301

## **COMBINED COLLEGE AND PROFESSIONAL DEGREES**

The vast majority of applicants graduate with their baccalaureate degrees before entering a health career preprofessional school. A few outstanding students with 90 or more hours may be admitted through early admission to medical schools or the other health care programs before the baccalaureate degree is completed. A student who gains early admission to a doctoral level program in medicine will be granted a leave of absence during the senior year at Marshall University. The student must file a written report in the College of Science Dean's Office immediately after gaining admission to the professional school and before the termination of coursework at Marshall University.

At the end of the first year in the professional school the student is then eligible for the baccalaureate degree from Marshall University, provided that all requirements for graduation are met except the completion of a major. At least 96 hours of study must have been completed with a Grade Point Average of 2.0 at Marshall University. An applicant for the baccalaureate 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 semester hours has been completed to total 121 when added to the hours earned at Marshall University. Candidates for the degree must attend the regular Marshall University commencement, or have permission to graduate in absentia.





# Office of Outreach and Continuing Studies

## Dr. David J. Pittenger, Interim Associate Vice President for Outreach and Continuing Studies

The Marshall University Office of Outreach and Continuing Education (OCS) provides the citizens of West Virginia with increased 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

The Marshall University Office of Outreach and Continuing Education serves:

- Adult students who wish to complete a college degree they may have started but were never able to finish;
- Students who live far from the main campuses;
- West Virginia National Guard personnel and their families throughout the state;
- High school students who meet the requirements to take college courses;

The OCS delivers educational content and services through a number of traditional and non-traditional formats, which include:

- Public television (HEITV)
- Two-way interactive television
- Non-credit computer and professional continuing education programs
- Weekend and accelerated classes and programs
- College courses in the high school
- Courses at National Guard Armories for military personnel and their families.

## REGENTS BACHELOR OF ARTS (RBA)

**Andrew Gooding, Director**  
**Laidley Hall 127A/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 educational foundation through general education requirements, there are no required major courses. Instead, with the assistance of an advisor, each student creates the course plan that best fits their 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.
- (continued)

- Current students who are at least 4 years out of high school may be admitted to the RBA program with the approval of the RBA Coordinator and the Dean of their current college.

#### **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 GPA in the RBA program 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 may not claim a major, they can earn a minor in any other academic program by following the minor requirements of that program, or students may earn an Area of Emphasis. Neither is required.

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**

As RBA students are not allowed to have a major, an Area of Emphasis gives them the opportunity to show a focus as part of the RBA degree. Areas of Emphasis are optional and not required for the degree. Specific courses are determined by academic departments, so substitutions are generally not possible.

##### **Area of Emphasis in Organizational Studies (24 hours)**

ECN 200 – Survey of Economics or ECN 250 – Principles of Microeconomics; LE 207 – Legal Environment for Business; ACC 310 – Accounting for Entrepreneurs (or 6 hours of other Accounting Courses); MGT 320 – Principles of Management; MKT 340 – Principles of Marketing; MGT 419 – Business and Society; MGT 422 – Organizational Behavior; MGT 423 – Organizational Development or MGT 428 – Negotiations, or MG 429 – Leadership.

#### **Computer-Related**

##### **Area of Emphasis in Computer Forensics (18 hours):**

IST 264 – Topics in Computer Hardware Technologies; IST 463 – Digital Computer Evidence; CJ 314 – Crime Scene Investigation or CJ 326 Computer Crime; and 3 courses from the following: IST 446 – Digital and Multimedia Evidence, IST 447 – Search and Seizure Techniques in Digital and Multimedia Evidence, IST 448 – Forensic Uses of Digital Imaging, or IST 449 – Data Recovery and Analysis.

##### **Area of Emphasis in Web Application Development (21 hours):**

IST 163 – Programming Practicum with C++; IST 263 – Web programming; IST 303 – C# Net Programming; IST 365 – Database Information Management; IST 430 – Electronic Commerce; IST 431 – Advanced Web Programming; ART 454 – Designing for Multimedia.

##### **Area of Emphasis in Game Development (21 hours):**

IST 163- Programming Practicum with C++; IST 236 – Data Structures; IST 360 – Game Development I; IST 438 – Computer Graphics for Gaming; IST 439 – Game Development II; IST 460 – Game Development III; ART 454 – Designing for Multimedia.

#### **Humanities-Related**

##### **Area of Emphasis in Religion Studies (18 hours):**

Any 18 hours of 300-400 level courses. At least 6 hours must be Marshall University courses.

##### **Area of Emphasis in Literature in English (15 hours):**

No more than 6 hours can be taken at the 300 level. Choose 15 hours from: ENG 350, 409, 411, 317, 413, 417, 436, 437, 438, 446, 462, 410, 412, 319, 414, 415, 433, 447, 321, 421, 422, 323, 423, 424, 434, 405, 475, 476, 478, 303, 340, 341, 342, 428, 450, or 451.

## Writing-Related

### Area of Emphasis in Creative Writing in English (15 hours):

Choose any 15 hours from the following courses, but no more than 6 hours may be from the 300 level: ENG 303 – Appalachian Literature; ENG 360 – Introduction to Creative Writing; ENG 377 – Creative Writing: Poetry; ENG 378 – Creative Writing: Fiction; ENG 408 – Advanced Expository Writing; ENG 444 – Rendering the Landscape; ENG 491 – Creative Writing: Poetry Workshop; ENG 492 – Creative Writing: Fiction Workshop; ENG 493 – Creative Writing: Nonfiction Workshop.

## Social Science-Related

### Area of Emphasis in Anthropology (18 hours):

ANT 201 (Cultural Anthropology), ANT 322 (Archeology), ANT 361 ( Ethnographic Methods) or ANT 491 (Theory in Ethnology), and 3 additional courses at the 300-400 level.

### Area of Emphasis in Geography (18 hours):

Up to 4 hours of 1-200 level courses and 15 hours of 3-400 level courses.

### Area of Emphasis in Psychology (18 hours):

PSY 201 and any 15 hours of 300-400 level courses.

### Area of Emphasis in Sociology (18 hours):

SOC 200 (Introductory Sociology), SOC 344 (Social Research I), SOC 360 (Sociological Perspectives), and 9 additional hours of SOC courses at the 300-400 level.

### Area of Emphasis in Women's Studies (18 hours):

WS 101 (Introduction to Women's Studies) and any 15 hours of WS designated courses at the 300-400 level. To be acceptable courses must have the WS designator.

## Education-Related

### Area of Emphasis in Preschool Development (21 hours):

ECE 215 – Family Relationships; ECE 303 – Child Development; ECE 322 – Language, Literacy, and Numeracy for Young Children; ECE 323 – Assessment in Early Childhood; ECE 430 – Preschool Curriculum and Methods; CISP 320 – Special Education: Survey of Exceptional Children I; CISP 420 - Special Education: Survey of Exceptional Children II.

The most current list of Areas of Emphasis are found on the RBA website ([www.marshall.edu/rba/businessaoe.html](http://www.marshall.edu/rba/businessaoe.html)) or by contacting the RBA office. An RBA Area of Emphasis requires a minimum of 15 hours of 300-400 level courses with a grade of C or higher in each. CEC's may not be used in completing an Area of Emphasis.

## BACHELOR OF APPLIED SCIENCE (BAS)

Laidley Hall 127A/304-696-6400

[RBA@marshall.edu](mailto:RBA@marshall.edu)

Marshall University's Bachelor of Applied Science (BAS) Degree Program is designed for students who have completed an Associate of Applied Science degree at a regionally accredited two-year institution such as a community and technical college. As credits earned in these of programs may not readily transfer to traditional baccalaureate programs, the BAS degree is designed to smooth this transition. Instead of a major, each student must complete an Area of Emphasis that best fits the individual's needs. Marshall University's BAS Degree Program conforms to the statewide guidelines published by the Higher Education Policy Commission.

## Bachelor of Applied Science Degree Overview

### Admission:

- The student must possess an Associate of Applied Science (AAS) degree from a regionally accredited institution – minimum of 60 semester hours.
- No more than 72 hours of community college credit can count toward the BAS.
- The student must meet all general Marshall University admission requirements.

### Policies:

- The degree program and the student will adhere to all institutional academic policies for Marshall University with the exception of the core curriculum.
- The residency requirement is 24 hours from Marshall University – the degree granting institution. Residency shall be defined as being registered for officially approved coursework. Residency may not be established through any credit received by a credit-by-exam program or standardized testing program.

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- Only coursework and military credits can satisfy degree requirements. Credit by examination, standard awards and portfolio credits are not permitted.

*Total Credit Requirement:* 120 Semester Hours

*Upper-Division Requirement:* 39 Semester Hours

### **General Education Requirements**

The General Education requirements consist of 42 semester hours (includes applicable AAS General Education hours). Courses must be distributed among all the following categories:

Communication	6 Semester Hours
Natural Sciences	3 Semester Hours
Mathematics	3 Semester Hours
Computer/Information Technology	3 Semester Hours
Social Sciences/Humanities/Fine Arts	6 Semester Hours
Additional approved credit hours from any of the above General Education Categories	21 Semester Hours

### **Area of Emphasis (AOE) Requirement**

1. Areas of Emphasis are institutionally sanctioned program areas agreed upon by the Office of Outreach and Continuing Studies and the applicable academic college(s)/department(s) and approved by the chief academic officer of the University or his/her designee.
2. The transcript of the BAS degree will include the following phrase, “with a Bachelor of Applied Science, Area of Emphasis in ...”
3. The student will receive the Bachelor of Applied Science Emphasis designation when the student has completed the minimum of 24 semester hours of graded coursework, with a minimum grade of “C” in each course, in an institutionally sanctioned AOE.

The current list of Areas of Emphasis is available at [www.marshall.edu/bas/basaoe.html](http://www.marshall.edu/bas/basaoe.html).

## **SOUTH CHARLESTON CAMPUS**

**100 Angus E. Peyton Drive  
South Charleston, WV 25303-166**

304-746-2500  
[schas@marshall.edu](mailto:schas@marshall.edu)

## **REGIONAL CENTERS**

### **Mid-Ohio Valley Center, Point Pleasant**

304-674-7200  
[www.marshall.edu/movc](http://www.marshall.edu/movc)  
[movc@marshall.edu](mailto:movc@marshall.edu)

### **Southern Mountain Center**

**(on Southern West Virginia Community and Technical College campuses-Logan and Williamson)**

304-746-2030  
[jsharrah@marshall.edu](mailto:jsharrah@marshall.edu)

### **Teays Valley Regional Center, Teays Valley**

304-757-7223  
[www.marshall.edu/tvrc](http://www.marshall.edu/tvrc)  
[prisk@marshall.edu](mailto:prisk@marshall.edu)



# University College

**Dr. Corley Dennison, III, Associate Vice President for Academic Affairs  
and Dean of Undergraduate Studies**  
**Ms. Sherri Stepp, Director**  
[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 most undecided students, conditionally admitted students, students enrolled in college courses in the high schools/early entry high school students, special admits, LEAP students, transient students and exchange students. In addition to academic advising for undecided and conditionally admitted students, UC provides many opportunities to all Marshall University students including the Student Resource Center, Tutoring Services, University Studies (UNI) courses, the National Student Exchange Program, math placement exams and the Majors, Minors & More! event.

## Mission Statement

University College provides academic support services to students to be successful throughout their college experience. University College offers students a solid foundation of academic skills for advancement into another Marshall University college for graduation. University College is dedicated to providing professional academic advice, understanding and practicing diversity, operating under high ethical standards, ensuring privacy of students, creating an environment for freedom of expression, and encouraging student involvement in their own educational process.

## Academic Advising

University College provides advising for undecided students, conditional admits, students enrolled in college courses in the high schools/early entry high school students and special admits. Conditionally admitted students will be assigned a specific University College advisor. Undecided students will be assigned a specific advisor in the Student Resource Center located in the Memorial Student Center. Advising is provided in a supportive atmosphere where students may obtain information regarding various majors and academic opportunities. Appointments are encouraged, but not required.

## Undecided Students

Students who have not selected an academic major will be assigned an advisor in the Student Resource Center. Advisors will work with students to help them identify 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 45th credit hour of coursework. (Undecided students in the various colleges of the university should consult the appropriate college portion of the catalog for details regarding the requirements for their undecided students.)

## Conditional Admission

Marshall University offers a limited number of conditional admissions to entering freshmen 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 certain requirements within three semesters to gain full admission to the university. Requirements include completion of any needed prerequisites for English and math, 2.00 Grade Point Average on a minimum of 12 graded hours,



and successful completion of UNI 101, New Student Seminar. Students will be assigned to 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.)

## **Prerequisites for English and Math**

Students are required to obtain a verbal ACT score of 18 (SAT 450) to be eligible to enroll in college-level composition courses. Students with verbal scores below 18 must enroll in a developmental English course to prepare for college-level English composition courses. Students are required to obtain a math ACT score of 19 (SAT 460) to be eligible to enroll in college-level math courses. Students with math scores below 19 must enroll in one or two developmental courses to prepare for college-level math. University College offers opportunities to take placement exams if students wish to challenge their math scores. To schedule an exam, please call 304-696-3169. Students may contact the English Department at (304-696-6100) for information on how to schedule an essay exam to be evaluated for placement in the composition sequence.

## **Dismissal from University College**

Students who are conditionally admitted to Marshall University must meet certain 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.

## **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 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.

## **UNI 100: Freshman First Class**

UNI 100 is made up of two parts: (1) the workshops 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 Credit/No Credit (CR/NC). To earn the one hour of elective credit, attendance at WOW workshops, group session and seminars is required along with successful completion of courses 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” in the “Academic Information” section of this catalog.)

## **UNI 101: New Student Seminar**

UNI 101, New Student Seminar, is designed as an introduction to college life for freshmen. The course provides students with an opportunity to adjust to the academic and social environment of college under the guidance of a mentor and in the presence of a small group of peers. The course is one credit hour and is graded. Beginning with freshmen entering in Fall 2010, this course is no longer required for graduation; however, University College students who have been conditionally admitted are required to successfully complete the course. Typically, University College students will be in sections instructed by their assigned academic advisor.



## **UNI 102: Strategies for Academic Success**

UNI 102 is 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.

## **UNI 103: Career Planning for Undecided Students**

UNI 103 is a course designed for undecided students to explore career options and majors. Topics include interest testing, career information, decision-making skills and job-finding strategies.

## **UNI 201: Peer Mentoring**

Students trained as peer mentors will lead discussions and activities and work with faculty advisors in the design and implementation of the freshman introduction to campus life.

## **Tutoring Services**

Please see description under “Learning Opportunities and Resources.”

## **National Student Exchange**

Please see description under “Learning Opportunities and Resources.”

## **Student Resource Center**

Please see description under “Learning Opportunities and Resources.”



# 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.



# Joan C. Edwards School of Medicine

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.

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/>



# School of 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.

## 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:

- |   |                                    |
|---|------------------------------------|
| • English Composition                                     | 6 credit hours or 2 semesters,     |
| • Calculus  | 5 credit hours or 1 semester,      |
| • Statistics  | 3 credit hours or 1 semester,      |
| • Biology w/ Lab  | 8 credit hours or 2 semesters,     |
| • Chemistry w/ Lab  | 10 credit hours or 2 semesters,    |
| • Human Anatomy   | 4 credit hours or 1 semester,      |
| • Human Physiology  | 4 credit hours or 1 semester,      |
| • Microbiology  | 4 credit hours or 1 semester,      |
| • Organic Chemistry w/ Lab                                | 9 credit hours or 2 semesters,     |
| • Physics w/ Lab  | 8 credit hours or 2 semesters, and |
| • Admission to the Marshall University School of Pharmacy |                                    |

## Admission to the School of Pharmacy

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)) and complete the Pharmacy College Admission Test (PCAT). The minimum undergraduate Grade Point Average (GPA) for admission consideration is 2.50 on a 4.00 scale and the prerequisite GPA minimum is 2.75. No minimum PCAT score is required for admission; however, PCAT composite scores of  $\geq 50$  are preferred. 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), PCAT performance, 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, PCAT scores, and reference letters will be offered 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).



# Courses of Instruction

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

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.

## COURSE DESCRIPTIONS

### ACCOUNTANCY (ACC)

- 215      Accounting Principles (CT). 3 hrs.**  
Introduction to principles and procedures of double-entry accounting records and reports. This course meets a Core I/Critical Thinking requirement.
- 216      Principles of Accounting. 3 hrs. I,II.**  
Using accounting information to assist in managerial control and decision making. (PR: ACC 215)
- 280-281      Special Topics. 1-4; 1-4; hrs.**
- 310      Accounting for Entrepreneurs. 3 hrs.**  
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 COLLEGE OF BUSINESS.

- 311 Intermediate Accounting. 3 hrs.**  
Principles and problems of valuation, analysis, and formal presentation of accounting data. (PR: ACC 215 with a C or better and ACC 216 with a C or better)
- 312 Intermediate Accounting. 3 hrs.**  
Principles and problems of valuation, analysis, and formal presentation of accounting data. (PR: ACC 311 with a C or better and MIS 200)
- 318 Cost Accounting I. 3 hrs.**  
A study of fundamental cost accounting concepts and objectives including product cost accumulation, cost-volume-profit analysis, direct costing, budget techniques, standard costing, and differential cost analysis. (PR: ACC 215 with a C or better, ACC 216 with a C or better, and MGT 218)
- 341 Accounting Information Systems. 3 hrs.**  
Introduction to accounting systems. Emphasis on concepts of analysis, design, and implementation of accounting systems with attention on internal and audit trail. (PR: ACC 311 with a C or better)
- 348 Federal Taxation. 3 hrs.**  
Problems and procedures of income tax accounting (PR: ACC 215 with a C or better)
- 412 Governmental Accounting. 3 hrs.**  
A study of the use of accounting information in the financial management of governmental and nonprofit entities. (PR: ACC 311 with a C or better)
- 414 Advanced Accounting Problems. 3 hrs.**  
Selected problems in advanced accounting principles and procedures. (PR: ACC 312 with a C or better)
- 415 Controllershship. 3 hrs.**  
A comprehensive study of the controller's objectives, responsibilities, functions, organizational roles, etc. (PR: ACC 318 with a C or better)
- 418 Managerial Accounting. 3 hrs.**  
The managerial approach to budgetary control. (PR: ACC 318 with a C or better)
- 429 Auditing I. 3 hrs.**  
A study of the theory and procedures of auditing and the legal and social responsibilities of the auditor. (PR: ACC 312 with a C or better, ACC 341 with a C or better, and MGT 218)
- 430 Auditing Theory and Research. 3 hrs.**  
A critical examination of contemporary professional attestation theory and practice including a comprehensive review of AICPA statements on audit procedures. (PR: ACC 429 with a C or better)
- 435 Internal Auditing. 3 hrs.**  
The course discussed the applicable current internal auditing theory and procedures, including a review of corporate governance and risk assessment. (PR: ACC 341 with a C or better)
- 448 Federal Income Tax II. 3 hrs.**  
Advanced course in taxation with emphasis on corporations, partnerships, estates, trusts, gifts, valuation and liquidity problems, and tax administration and practice. (PR: ACC 348 with a C or better)
- 451 Accounting Theory. 3 hrs.**  
An examination of accounting concepts, standards, rates, conventions, principles and practices with primary emphasis on study of authoritative pronouncements comprising generally accepted accounting principles. (PR: ACC 312 with a C or better)
- 480-482 Special Topics. 1-4; 1-4 hrs.**  
Study of an advanced topic not normally covered in other courses. Accounting majors only, with permission of division.
- 485-486 Independent Study. 1-4; 1-4 hrs.**  
(PR: Permission of Division Head)
- 490 Internship. 3-12 hrs. (CR/NC)**  
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. This course may not be used as an accounting elective. (PR: Permission of Division Head)
- 499 Professionalism and Ethics Seminar. 3 hrs.**  
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. (PR: ACC 312 with a C or better and ACC 318 with a C or better, ACC 414, and ACC 429 as a prerequisite or taken concurrently)

## ANTHROPOLOGY (ANT)

- 201 Cultural Anthropology (CT). 3 hrs.**  
Introduction to the scientific study of culture with emphasis on the cultures of small-scale societies. This class emphasizes critical thinking skills.
- 201H Cultural Anthropology Honors (CT). 3 hrs.**  
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. (PR: Admission to Honors College)
- 280-283 Special Topics. 1-4; 1-4; 1-4; 1-4 hrs.**
- 301 Social Statistics I.**  
Introduction to statistical analysis of social data. (Same as SOC 345)
- 322 Archaeology. 3 hrs.**  
Introduction to the methods and theory of archaeology.
- 323 Archaeological Field Training. 3-6 hrs.**  
Supervised instruction in on-site archaeological data collection, survey and excavation techniques.
- 324 Archaeological Analysis. 3 hrs.**  
Supervised instruction in processing and analyzing archaeological materials recovered by fieldwork.(PR: ANT 322 or departmental permission)
- 325 World Prehistory. 3 hrs.**  
An introduction to the archaeology of pre-literate cultures, from the emergence of Homo sapiens to the present.
- 326 Classical Archaeology. 3 hrs.**  
Archaeology of ancient Greece and Rome, and their colonies and imperial domains.
- 331 Physical Anthropology. 3 hrs.**  
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.
- 361 Ethnographic Research. 3 hrs.**  
A project-based introduction to ethnographic research design and practice.
- 362 Health, Culture and Society. 3 hrs.**  
A case-study based consideration of the cultural representations and social processes of health, illness, and forms of medical care. (Same as SOC 362.) (PR: ANT 201 or SOC 200)
- 363 U.S. Culture and the Family. 3 hrs.**  
An historically and ethnographically informed consideration of the changing meaning and place of family and work in everyday American life, media, and politics.



- 364 Expressive Culture. 3 hrs.**  
Exploration of expressive cultural forms in the construction of personal and communal identities and their meaningful attachment to particular geographic places.
- 365 Anthropology through Film. 3 hrs.**  
Exploration of film as a general anthropological field of interest with an emphasis on understanding selected films as cultural texts and their association with particular and changing cultural, political, economic and historical contexts.
- 371 Linguistic Anthropology. 3 hrs.**  
Introduction to the theories and methodologies of linguistic anthropology and to language as a cultural phenomenon and form of diversity.
- 391 Junior Seminar. 3 hrs.**  
Discuss in seminar form career development and other aspects of professional preparation (applications, resumes, CVs, codes of conduct). (Same as SOC 391.) (PR: anthropology or sociology major, junior standing, or departmental permission)
- 402 Principles of Geographic Information Systems. 3 hrs.**  
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.
- 411 Deconstructing Appalachia. 3 hrs.**  
Exploration of the historical and cultural significance of Appalachia in the American experience and imagination. (PR: Six hours of anthropology or departmental permission)
- 412 Appalachian Field Experience I. 3 hrs.**  
Supervised field work in an Appalachian community studying the social and cultural characteristics of the area. (PR: ANT 411 or departmental permission)
- 413 Appalachian Field Experience II. 3 hrs.**  
Supervised field work in an Appalachian community studying the social and cultural characteristics of the area. (PR: ANT 411 or departmental permission)
- 428 Archeological Theory and Analysis. 3 hrs.**  
An introduction to archaeological theory and its application to the material record of cultures, past and present (PR: Six credit hours of anthropology or departmental permission)
- 440 African Cultures. 3 hrs.**  
Comparative analysis of the ethnic groups of Africa, using archaeological and ethnographic data. (PR: Six hours of anthropology or departmental permission)
- 441 Oceania. 3 hrs.**  
Comparative analysis of the indigenous peoples and cultures of Melanesia and Polynesia, using archaeological and ethnographic data. (PR: Six hours of anthropology or departmental permission)
- 442 The Native Americans. 3 hrs.**  
Comparative analysis of the indigenous inhabitants of North America, using archaeological and ethnographic data. (PR: Six hours of anthropology or departmental permission)
- 445 American Ethnicities. 3 hrs.**  
Comparative overview of historical and contemporary patterns of immigration, settlement, and inter-ethnic relations in the United States. (PR: Six hours of anthropology or departmental permission)
- 465 Anthropology of Global Problems. 3 hrs.**  
Anthropological study of contemporary environmental and social problems with global impact emphasizing the emergence of a culture of capitalism. (PR: Six hours of anthropology and sociology or departmental permission)
- 466 Culture and Environment. 3 hrs.**  
This course will examine the symbolic and structural dimensions of struggles over defining, organizing, and controlling the natural environment from a biocultural perspective.
- 467 Culture in Ethnographies. 3 hrs.**  
In depth exploration and comparison of diverse cultural groups through reading and discussing ethnographic texts. (PR: Six hours of anthropology or departmental permission)
- 468 National Identity. 3 hrs.**  
Exploration of the cultural, political and economic processes that contribute to the creation and maintenance of the modern nation state as an imagined community. PR: Six credit hours of anthropology or departmental permission.
- 472 Language, Gender and the Body. 3 hrs.**  
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.
- 478 Introduction to Sociolinguistics. 3 hrs.**  
Sociolinguistics is the study of the effects of language in society, relevant to discourse practices, language attitudes, variations, shifts, and changes. (Same as English 478). (PR: ENG 102 or 201 or 201H or 302)
- 480-483 Special Topics. 1-4; 1-4; 1-4; 1-4 hrs.**  
Study of topics of interest not covered in regularly scheduled courses. (PR: Six hours of anthropology or departmental permission)
- 485-488 Independent Study. 1-4; 1-4; 1-4; 1-4 hrs.**  
Individual study of topics not offered in regularly scheduled courses. Advance permission required.
- 489 Internship. 1-4 hrs.**  
Supervised practicum founded on anthropological knowledge in a host institution. 40-45 hours of internship work correspond with 1 credit hour. (PR: Six hours of anthropology)
- 491 Theory in Ethnology. 3 hrs.**  
Introduction to major theoretical traditions of cultural anthropology with emphasis on the connection between fieldwork and development of theory. (PR: Six hours of anthropology or departmental permission)
- 492 Senior Seminar. 3 hrs.**  
Application of anthropological theory and practice to individually designed projects. This course fulfills the capstone requirement for undergraduate majors. (PR: Anthropology major in senior standing or departmental permission)

## ART AND DESIGN (ART)

- 101 Visual Culture and Research. 3 hrs.**  
Introduction to the functions of art applications of media, elements, and principles of design, artists, and aesthetics. (Required for Art majors)
- 112 Introduction to Visual Art. 3 hrs.**  
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.)

- 113 Art Education: Elementary. 3 hrs.**  
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.
- 201 History of Art. 3 hrs.**  
A survey of the history of art, with emphasis on European traditions. Chronology will cover pre-history through the Middle Ages. (PR: ART 112 for non-majors; ART 101 for majors)
- 202 History of Art. 3 hrs.**  
A survey of the history of art from the Renaissance to the present. (PR: ART 112 for non-majors; ART 201 for majors)
- 214 Propaganda/Surface: 2D Images. 3 hrs.**  
Basic and related problems in design dealing with the plastic elements - line, color, form, space, and texture. Exploring these elements in context. (Open to art majors; others must have permission of the department).
- 215 Space/Amalgam: 3D Forms. 3 hrs.**  
Design with emphasis on three-dimensional form, using a variety of media. Exploring these forms in context. (PR: ART 214)
- 217 Experience/Site: Art in Time. 3 hrs.**  
Introduction to performance and site-specific work, and how it functions in context.
- 218 Drawing. 3 hrs.**  
Freehand drawing with emphasis on drawing from nature and the posed model, using a variety of media. (PR: ART 217)
- 219 Gaze/Animate: Digital Images. 3 hrs.**  
Introduction to skills in still and moving digital images using both cameras and computers as creative and practical tools for artists and designers. Conceptual design will be emphasized. (PR: ART 214)
- 270-272 Practicum. 3 hrs.**
- 280-283 Special Topics. 1-4 hrs.**  
To be used for experimental courses. By permission only.
- 298 Portfolio Review: BFA. 1 hr.**  
Students must present art and design work from all foundations studio courses and a minimum of one 300-level studio course for faculty review. Required for program advancement. Art majors only. (PR: ART 101,214,215,217,218, 219)
- 299 Portfolio Review. 0 hrs.**  
Students present artwork from foundations and one 300 course for faculty review. (Art Education 5-Adult: 218 not required). Successful completion of 299 is a prerequisite for advanced studio courses. (PR: 214, 215, 217, 218, 219 and one 300-level course)
- 301 Printmaking Processes. 3 hrs.**  
Experiments in the media of intaglio, lithography, serigraphy, relief collagraphs and new techniques in printmaking. (PR: 217)
- 302 Relief Printmaking. 3 hrs.**  
Traditional and experimental approaches to relief printmaking, including woodcut, linocut, wood engraving, relief etching, Japanese techniques, monoprints, and other press and handprinting relief processes. (PR: 301)
- 303 Surface Design. 3 hrs.**  
Introduction to surface design. Students will learn various techniques to apply color on fabric surface.
- 305 Ceramics. 3 hrs.**  
Search for form and personal expression through clay. Emphasis on handbuilding techniques, decorative processes, and glaze application. (PR: Art 214 or permission of the department)
- 306 Design in Metal. 3 hrs.**  
Advanced design in metal. Emphasis on copper, silver, pewter, and brass. Problems involve soldering, enameling, and shaping metal by hand.
- 307 Sculpture. 3 hrs.**  
Emphasis on modeling in clay and exploring the potential of plaster, wood and other materials relevant to the area of sculpture. (PR: ART 215)
- 308 Weaving. 3 hrs.**  
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.
- 309 Advanced Sculpture. 3 hrs.**  
Sculptural exploration will be extended toward openness, transparency and interpenetration of forms. Emphasis will be on the fashioning and joining of contemporary materials (alloys, plastics, etc.) through the mastery of industrial techniques. (PR: ART 307)
- 312 Typography. 3 hrs.**  
An introduction to the study and technology of Typography and practical studio skills, emphasizing type and design principles in print and digital media. (PR: ART 219)
- 313 Installation Art with Fibers. 3 hrs.**  
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. (PR: ART 214)
- 314 Graphic Design 3 hrs.**  
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. (PR: For art majors -Sophomore standing, ART 214 and 312. For JMC majors - JMC 241, MKT 341)
- 315 Introduction to Photography. 3 hrs.**  
Introduction to black and white photography through basic techniques of camera controls, lighting, traditional wet lab, and digital imaging. (PR: ART 214 or 217 or permission of the department)
- 316 Graphic Design I3 hrs.**  
Applies the use of type and images to design for advertising, editorial, or instructional purposes. Involvement with extended design and layout problems. (PR: ART 219, 314)
- 317 Illustration. 3 hrs.**  
Conceptual and technical development of illustrations for editorial and advertising purposes. (PR: ART 218, 255)
- 318 Art and Design for Web Sites. 3 hrs.**  
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 Web site design. (PR: ART 316)
- 320 Silk Screen Printmaking. 3 hrs.**  
Experience with screen-printing stencil processes. The advanced student may also explore photographic stencil-making and printing and a variety of surfaces. (PR: 301 or permission of chair)
- 322 Collagraphs. 3 hrs.**  
Printmaking using the collagraph plate or matrix, an additive method that employs both intaglio and relief techniques. (PR: 301 or permission of chair)
- 324 Image Visualization: Darkroom Techniques. 3 hrs.**  
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. (PR: ART 315 or Permission of Instructor)

- 325 Image Visualization: Digital Techniques. 3 hrs.**  
ART 325 is an exploration of color photography using digital techniques. Students will refine their personal vision using digital cameras, lighting and digital imaging software. (PR: ART 315 or Permission of Instructor)
- 330 Surface Design. 3 hrs.**  
Introduction to surface design. Students will learn various techniques to apply color on fabric surfaces. (PR: ART 214)
- 331 Cast Metal Sculpture. 3 hrs.**  
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. (PR: ART 215, 307)
- 332 Carved Sculpture. 3 hrs.**  
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. (PR: ART 215, 307)
- 333 Welded Sculpture. 3 hrs.**  
A variety of techniques including oxygen/acetylene, arc and TIG welding will be studied and practiced in the process of direct metal sculpting. (PR: ART 215, 307)
- 335 Art Education: 2D-3D Media & Methods. 3 hrs.**  
Philosophy, media, and methods for teaching art (emphasis for elementary level); includes laboratory experience.
- 340 Art Education: Secondary. 3 hrs.**  
An introduction to the methods for teaching art at the secondary level (7-12). Authentic instruction and classroom assessment strategies are emphasized. (PR: ART 113).
- 342 Technologies for Art Education Majors. 3 hrs.**  
This course will give art education majors an introduction and experience in graphic design skills, computers and photography. Not applicable to the BFA degree. (PR: ART 214)
- 343 Introduction to the Potter's Wheel. 3 hrs.**  
Basic throwing skills, surface enrichment and glaze application emphasized. Design analysis and production of functional form stressed. (PR: ART 214)
- 344 Primitive Ceramic Techniques. 3 hrs.**  
The study of local clay preparation and primitive firing and decorating techniques. (PR: ART 305)
- 345 Problems in Porcelain. 3 hrs.**  
The formulation and use of porcelain in the production of utilitarian and sculptural form. (PR: ART 305, 343, 344, 446 and 448)
- 350 Watercolor Painting. 3 hrs.**  
Watercolor medium in expressing still life, landscape, and the human figure. (PR: ART 214 and 217)
- 351 Advanced Watercolor. 3 hrs.**  
Advanced exploration of watercolor, inks and other fluid media. Emphasis will be on experimental methods and personal originality. (PR: ART 350)
- 353 Painting I. 3 hrs.**  
Basic techniques using color creatively based on an understanding of visual structural elements; various media including water, acrylic and oil based paints. (PR: ART 214, 217)
- 354 Painting II. 3 hrs.**  
Continuing development of basic techniques using color creatively based on an understanding of visual structural elements; various media including water, acrylic and oil based paints. (PR: ART 353)
- 355 Painting III. 3 hrs.**  
Continued development for the intermediate level painter with emphasis on techniques and form, including varied supports, grounds, media such as encaustics, synthetic resins, egg tempera, acrylics and oils. (PR: ART 354)
- 369 Mold Making and Casting. 3 hrs.**  
Advanced processes of piece and flexible mold making will be studied and practiced for the purpose of casting complex forms and limited edition sculpture. (PR: ART 307)
- 370-372 Practicum. 3 hrs.**
- 389 20th-Century Art. 3 hrs.**  
A survey of major 20<sup>th</sup>-Century artists' work, styles, movements, and media, in a broad historical context with discussion of research methods and directed research project. (PR: ART 202 or permission of chair)
- 390 Professional Practice for Visual Artists. 3 hrs.**  
Current views and practice: contemporary issues in art, safe practices in the studio, career opportunities, technology and art, and professional skills for artists.
- 404 Iconography of Mary. 3 hrs.**  
Traces the sources and evolution of Catholic doctrine and images of the Virgin Mary.
- 406 Figure Drawing. 3 hrs.**  
Practice in drawing from the posed human figure. (PR: ART 217 and 218)
- 407 Tribal Art. 3 hrs.**  
An introduction to the unique arts of so-called pre-civilized peoples with a twofold emphasis: First, the European prehistoric; second, the non-European primitive. *Does not fulfill art history requirements for art and design majors.* (PR: ART 112 or permission of department)
- 408 Art and Architecture of Ancient Egypt. 3 hrs.**  
History of the visual arts of ancient Egypt in the context of social and religious influences.
- 409 19th-Century Art. 3 hrs.**  
A survey of the development of architecture, painting, and sculpture in the Western World during the 19th century. (PR: ART 202 or permission of department)
- 410 Art and Architecture of Ancient Greece. 3 hrs.**  
Explores the art and architecture of the ancient Greek world in light of social and religious influences. Prerequisite: ART 202 or Permission.
- 411 Art and Architecture of Ancient Rome. 3 hrs.**  
Explores the art and architecture of ancient Rome in light of social and religious influences. Prerequisites: ART 202 or Permission.
- 413 Contemporary Art. 3 hrs.**  
A survey of the development of architecture, painting and sculpture in the Western World from World War II to the present. (PR: ART 202 or permission of department)
- 414 Art and Architecture of the Italian Renaissance. 3 hrs.,**  
Explores the art and architecture of the Italian Renaissance in the context of social and religious influences. (PR: ART 202 or permission of department)
- 415 Art of the Renaissance in Northern Europe. 3 hrs.**  
Explores the art of Northern Europe during the Renaissance in light of social and religious influences. Prerequisite: ART 202 or Permission.
- 416 Baroque Art. 3 hrs.**  
Analyzes Baroque art and the social milieu that influenced, commissioned, financed, and produced it.

- 417 Figure Sculpture. 3 hrs.**  
Interpretive sculpture based on the gesture and structure of the human figure. A variety of stylistic persuasions and media will be explored according to individual interests. (PR: ART 307)
- 418 Advanced Drawing. 3 hrs.**  
Drawing problems designed and executed by the individual student, in a variety of media, to develop unique imagery and increased technical skill. (PR: ART 218)
- 419 Textile Construction. 3 hrs.**  
Explore various textile materials using ancient and contemporary processes and their applications in the development of 21st century crafts and products.
- 420 Textile Design. 3 hrs.**  
Textile design for possible commercial production, emphasizing creation of numerous fabric samples and limited amounts of yardage. (PR: ART 308)
- 421 Product Design with Textiles. 3 hrs.**  
This course explores the design and production of handmade textile objects. Students will learn functional product design and efficient ways to produce multiples. (PR: ART 308)
- 422 Digital Process for Textiles. 3 hrs.**  
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. (PR: ART 308)
- 423 Photographic Lighting. 3 hrs.**  
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. (PR: ART 324)
- 424 Woman and Art. 3 hrs.**  
Explores the relationship of women to art historically; as artists, as subject matter, and as patrons/consumers. (PR: ART 202 or permission)
- 426 Advanced Problems in Photography. 3 hrs.**  
Directed study in which student pursues creative work in a direction consistent with current activities in the field of photography. Emphasis on creative development. (PR: ART 323 and 324; ART 325 or permission)
- 427 Photographic Portfolio/Exhibit. 3 hrs.**  
Continued development of creative work with emphasis on preparation of portfolio and exhibition. (PR: permission of the department)
- 440 Advanced Graphic Design. 3 hrs.**  
Directed study in which student may select subject from any area of commercial design with the goal of developing specific area of expertise. Emphasis on original design and research. (PR: ART 316)
- 441 Advanced Problems in Illustration. 3 hrs.**  
Continued development of illustration with emphasis on personal style. (PR: ART 317)
- 442 Monumental Sculpture. 3 hrs.**  
Emphasis will be on the planning and production of fountains, architectural reliefs, and other large environmental sculptures. (PR: ART 215, 307)
- 443 Mixed Media and Assemblage Sculpture. 3 hrs.**  
Combinations of found, fabricated, and mixed materials will be assembled into original sculpture compositions. (PR: ART 215, 307)
- 444 Papermaking/Bookbinding. 3 hrs.**  
The preparation and processing of fibers for papermaking including experiences in sheet forming, casting, laminating; also, traditional and experimental bookbinding methods as well as producing creative art forms.
- 445 Graphic Design for Corporate Identity. 3 hrs.**  
Application of graphic design, including typography, photography and illustrations in developing and implementing identity systems. (PR: ART 316)
- 446 Intermediate Potter's Wheel. 3 hrs.**  
Continuation of Art 343. The student will master basic wheel and decorative processes developing a personal style in their work. (PR: ART 343)
- 447 Combined Ceramic Processes. 3 hrs.**  
Exploration of a variety of ceramic building and firing processes such as hand building, wheel, and slip casting. (PR: ART 305, 343)
- 448 Ceramic Materials and Processes. 3 hrs.**  
Practical and empirical investigation of ceramic materials, techniques, and approaches to their use in clay and glazes. (PR: ART 305)
- 449 Ceramic Sculpture. 3 hrs.**  
Contemporary ideas and techniques of ceramic fired and unfired sculpture. (PR: ART 305, 344)
- 450 Two and Three Dimensional Design for Fabrics. 3 hrs.**  
Exploring the potentialities of fabric as an art experience in two and three dimensional art form.
- 451 Advanced Ceramics. 3 hrs.**  
The advanced student will explore individual problems and interests in clay. (PR: all proceeding ceramic numbers)
- 452 Three-Dimensional Graphic Design. 3 hrs.**  
Graphics for display design and packaging. (PR: ART 215, 316)
- 453 Advanced Digital Media. 3 hrs.**  
Hands-on experience with electronically generated images. Survey of recent developments in imaging technology. Topics may include computer graphics, video, and projected media. (PR: permission of instructor)
- 454 Designing for Multimedia. 3 hrs.**  
Current topics and techniques in multimedia design. Topics include animation, incorporating digital video and sound, interaction design, information design, Web site design and advanced image processing. (PR: ART 316 or permission of instructor. Basic knowledge of current graphics software)
- 455-456 Painting: Acrylic and Oil. 3; 3 hrs.**  
Study and practice of painting in expressing still life, landscape, and the human figure. (PR: ART 255)
- 457 Figure Painting. 3 hrs.**  
Painting the nude model using modern and classical methods. (PR: ART 255 or permission of the department)
- 458 Advanced Problems in Painting. 3 hrs.**  
Refinement and development of individual concerns with content, form, and techniques in painting. (PR: ART 456)
- 460 History and Philosophy of Art Education. 3 hrs.**  
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. (PR: ART 340)
- 463 Advanced Intaglio Printmaking. 3 hrs.**  
Development of individualized form using intaglio techniques and incorporating multiple colors, plates, assemblages, collagraphs, photo-etching, and mixed media. (PR: ART 301)
- 464 History of Modern Design. 3 hrs.**  
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. (PR: ART 112 or ART 101 and ART 201 or permission)
- 465 Lithography. 3 hrs.**  
Basic techniques of hand lithography, both stone and metal plate. (PR: ART 301)

- 466 Curriculum Development for Public School Art K-12. 3 hrs.**  
(Same as CI 466) Exploring considerations for curriculum development in art education; developing individualized curriculum for specific situations on grade levels K-6 or 7-12.
- 468 Secondary Education: Teaching Art. 3 hrs.**  
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.
- 470-473 Practicum. 3 hrs.**  
To be used for learning activities that involve the application of previously learned processes, theories, systems, or techniques.
- 475-479 Advanced Studio Sequence. 3 hrs.**  
To be used to complete studio specialization and may be repeated. By permission only.
- 480-483 Special Topics. 1-4 hrs.**  
To be used for experimental courses. By permission only.
- 485-488 Independent Study. 1-4 hrs.**  
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.
- 489 Graphic Design Portfolio. 2 hrs.**  
This course will cover the preparation of a professional graphic design portfolio for presentation upon graduation. Included will be a resume development, printwork, and multimedia components. (PR: ART 316 or permission of the department)
- 490 Apprenticeship/Field Training. 1 hr.**  
Student is placed in a supervised work situation, offering the opportunity to perform professional design work. This will include 160 hours during the semester.
- 491 Graphic Design Workshop. 3 hrs.**  
Students in the workshop will engage in actual design problems with non-profit groups or small businesses to gain graphic design experience. (PR: Permission of the department)
- 498 Senior Capstone Project BFA. 3 hrs.**  
Students develop their creative visual productions and a supporting capstone statement that culminate in a public gallery exhibition. Art majors only. (PR: ART 390)
- 499 Senior Capstone Project. 1 hr.**  
Students document and exhibit their production from courses completed during their senior year in their areas of concentration.

## ART EDUCATION

(Listed under Art and Design)

## BIOLOGICAL SCIENCES (BSC)

- 104 Introduction to Biology. 4 hrs.**  
Fundamentals of biology with emphasis on the unity of life, energetics, genetics, evolution, classification of organisms in the kingdoms of life. Intended for non-science majors. Does not count toward a major in Biological Science. 3 lec-2 lab.
- 105 Introduction to Biology. 4 hrs.**  
Biological principles of structure and function in plants and animals (with emphasis on population growth and ecology systems). Intended for non-science majors. Does not count toward a major in Biological Science. 3 lec-2 lab.
- 120 Principles of Biology. 4 hrs.**  
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. (PR: at least 21 on Math ACT, or C or better in MTH 121 or higher)
- 121 Principles of Biology. 4 hrs.**  
A continuation of the study of basic biological principles common to all organisms. Diversity of life, phylogeny, structure, function, and ecology. Intended for+ science majors and pre-professional students. 3 lec-2 lab. (PR: BSC 120; Grade of C or better in BSC 120 recommended)
- 214 General Vertebrate Zoology. 4 hrs.**  
A survey of the seven living classes of vertebrates emphasizing aspects of ecology, physiology, natural history and taxonomy (PR: BSC 121 with grade of C or better or 12 hrs. college credit, 100 level or above with minimum GPA of 2.3)
- 227 Human Anatomy. 4 hrs.**  
Principles of gross and microscopic anatomy of human body systems and their development. Open to candidates in BSN program. Does not count toward 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)
- 228 Human Physiology. 4 hrs.**  
Basic concepts of human physiology, including an introduction to physiological control mechanisms operating at cellular, tissue, organ, and systems levels. Provides the scientific background for understanding pathophysiology. Open to candidates in BSN program. Does not count toward a major in Biological Science. 3 lec-3 lab. (PR: BSC 227 with grade of C or better)
- 250 Microbiology and Human Disease. 4 hrs.**  
Introduction to microbiology with emphasis on the role of microorganisms in the disease process. Does not count toward a major in Biological Science. (PR: BSC 227 or equivalent with grade of C or better)
- 300 Histology. 4 hrs.**  
Principles of microscopy and microscopic study of vertebrate tissues. 2 lec-4 lab. (PR: BSC 121 with a grade of C or better)
- 301 Vertebrate Embryology. 4 hrs.**  
Vertebrate development based chiefly on frog, chick and pig embryos. 2 lec-4 lab (PR: BSC 121 with grade of C or better)
- 302 Principles of Microbiology. 3 hrs.**  
Basic microbiological techniques, fundamental principles of microbial action, physiological processes, immunology, serology, disease process. 2 lec-4 lab. (PR: BSC 121 with grade of C or better)
- 303 Readings in Immunology. 2 hrs.**  
An introduction to the science of immunology based on selected readings in this discipline. Coverage includes humoral and cell mediated immunity, immune tolerance, transplantation, autoimmunity, and immunity and disease. 2 lec-discussion. (PR: BSC 121 with grade of C or better)
- 304 Microbiology Lab.**  
A laboratory courses 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. (PR or CR: BSC 302)
- 310 Comparative Vertebrate Anatomy. 4 hrs.**  
Structure, function and relationships of systems of selected vertebrates with an emphasis on embryology and evolution. 2 lec-4 lab. (PR: BSC 121 with grade of C or better)



- 312 Invertebrate Zoology. 4 hrs.**  
Survey of invertebrate phyla from protists through non-vertebrate chordates. Emphasis is placed upon identification of taxa, development, micro-anatomy, life histories and evolutionary relationship. (PR: BSC 121 with grade of C or better)
- 320 Principles of Ecology. 4 hrs.**  
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. (PR: BSC 121 with grade of C or better)
- 322 Principles of Cell Biology. 4 hrs.**  
A fundamental approach to the principles of cell biology covering the molecular basis of cellular structure and function, and gene regulation. Explores intercellular interactions, molecular interactions with modern cellular and molecular methods. 3 lec-3 lab. (PR: BSC 121 with a grade of C or better; CHM 355 recommended)
- 324 Principles of Genetics. 4 hrs.**  
The fundamental principles and mechanisms of inheritance. 3 lec-3 lab. (PR: BSC 121 with a grade of C or better; CHM 211 and 212 recommended)
- 365 Introductory Biochemistry. 3 hrs.**  
A survey course including introduction to basic biochemical concepts, metabolic pathways, and bioenergetics. (PR: BSC 121 with a grade of C or better and CHM 356)
- 405 Economic Botany. 3 hrs.**  
Plants used by man for food, ornamental purposes, building materials, textiles and other industrial purposes; economic importance of conservation. No laboratory. (PR: BSC 302 or 320 or 322 or 324)
- 406 Herpetology. 4 hrs.**  
Taxonomy, morphology, distribution, life history, and ecology of reptiles and amphibians with a special emphasis on representatives native to West Virginia. 2 lec-4 lab. (PR: BSC 302 or 320 or 322 or 324)
- 408 Ornithology. 4 hrs.**  
An introduction to avian biology: identification, distribution, migration, and breeding activities of birds. 2 lec-4 lab. (PR: BSC 302 or 320 or 322 or 324)
- 409 Mammalogy. 4 hrs.**  
A study of the morphology, evolution and classification, ecology, zoogeography, behavior, and economic importance; survey techniques and recognition of native mammals of West Virginia. 3 lec-3 lab. and field. (PR: BSC 302 or 320 or 322 or 324)
- 410 Remote Sensing/GIS Applications. 4 hrs.**  
A study of the physical systems for collecting remotely sensed data. Statistical/spacial analysis and modeling using image processing/geographic information/spatial computer software systems with earth resources applications. (PR: BSC 302, 320, 322 or 324 and PHY 203, 204, MTH 225 or permission)
- 411 Digital Image Processing/GIS Model. 4 hrs.**  
A study of image processing/geographic information/spatial analysis systems, concurrent and parallel image process, 3-D modeling scenarios utilizing geophysical data for computer simulation modeling. (PR: BSC 302, 320, 322 or 324, and BSC/PS 410 or IST 420 or permission)
- 412 Biogeography For Biology Majors. 3 hrs.**  
Biogeography studies distributions of animals and plants in space and time; it combines knowledge from evolutionary biology, ecology, zoology, botany, genetics, and conservation science with basics of geography and geology. (PR: BSC 320 or BSC 324)
- 413 Principles of Organic Evolution. 3 hrs.**  
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. (PR: BSC 302 or 320 or 322 or 324)
- 416 Plant Taxonomy. 4 hrs.**  
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. (PR: BSC 302 or 320 or 322 or 324)
- 417 Biostatistics. 3 hrs.**  
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. (PR: BSC 302 or 320 or 322 or 324)
- 418 Mycology 4 hrs.**  
Pathogenesis of fungal diseases. 2 lec-4 lab. (PR: BSC 302 or 320 or 322 or 324)
- 420 Plant Physiology. 4 hrs.**  
Experimental study of plant life processes to include applicable biophysical and biochemical principles, water relations, molecular biology, stress physiology, and growth and development. 3 lec-3 lab. (PR: BSC 302 or 320 or 322 or 324)
- 422 Animal Physiology. 4 hrs.**  
Physiological principles operating in the organ systems of vertebrate animals. 3 lec-3 lab. (PR: BSC 302 or 320 or 322 or 324; or permission)
- 424 Animal Parasitology. 4 hrs.**  
Morphology, life histories, classification, and host relationships of common parasites. 2 lec-4 lab. (PR: BSC 302 or 320 or 322 or 324; or permission)
- 425 Biosystematics. 3 hrs.**  
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). (CR/PR: BSC 121 with a C or better)
- 426 Medical Entomology. 4 hrs.**  
Role of certain insects and other arthropods in the transmission of disease organisms and methods of control. 2 lec-4 lab. (PR: BSC 302 or 320 or 322 or 324; or permission)
- 430 Plant Ecology. 4 hrs.**  
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. (PR: BSC 320)
- 431 Limnology. 4 hrs.**  
Study of inland waters; ecological factors affecting lake and stream productivity and various aquatic communities. (PR: BSC 320)
- 438 Emerging Infectious Diseases. 3 hrs.**  
Introduces students to infectious diseases that are either newly emergent or have returned to prominence within the last decade. (PR: BSC 302 or 320 or 322 or 324)
- 442 Advanced Microbiology. 4 hrs.**  
An advanced treatment of microbiology with emphasis on the molecular aspects of anatomy, taxonomy, and physiology of microorganisms. 2 lec-4 lab. (PR: BSC 302 or 320)
- 443 Microbial Genetics. 3 hrs.**  
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. (CR/PR: BSC 121 with a C or better; BSC 302 recommended)



- 445 Microbial Ecology. 3 hrs.**  
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. (PR: BSC 121 with grade of C or better or permission)
- 446 Microbial Ecology Lab. 2 hrs.**  
A laboratory course emphasizing the recovery, cultivation, enumeration, and identification of bacteria from environmental samples. Also introduces students to molecular-based methods for studying microbial community structure and dynamics. (PR/CR: BSC 445 or permission)
- 448 Introductory Immunology. 3 hrs.**  
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. (PR: BSC 322)
- 450 Molecular Biology. 3 hrs.**  
Advanced principles in molecular function emphasizing current research using recombinant DNA methodology. (PR: BSC 322)
- 452 Molecular Biology Lab Techniques. 3 hrs.**  
Current techniques in molecular biology with focus on recombinant DNA methodology. (PR: BSC 322; BSC 324 and 450 recommended)
- 454 Principles of Advanced Techniques in Molecular Biology. 3 hrs.**  
Students will gain an understanding of modern molecular biology through standard and novel methods and understand and criticize the published literature. Co-requisite/Prerequisite: BSC 450; BSC 452.
- 456 Genes and Development. 3 hrs.**  
Focuses on mechanisms of complex organismal development including cell specification, morphogenesis, and induction. Genetic manipulations of the model organism *Drosophila* will illustrate current information. (PR: BSC 322 or 324)
- 460 Conservation of Forests, Soil, and Wildlife. 3 hrs.**  
Primarily for students in the biological, general and applied sciences. Includes field work, seminars, and demonstrations on phases of conservation of forest, soil, and wildlife. 2 lec. 4 lab. (PR: BSC 320 or permission)
- 480-483 Special Topics. 1-4; 1-4; 1-4; 1-4 hrs.**  
(PR: Permission)
- 485-488 Independent Study. 1-4; 1-4; 1-4; 1-4 hrs., CR/NC**  
(PR: Permission)
- 491 Capstone Experience. 2 hrs.**  
An independent study involving a research project, an internship, or a classroom-based capstone course. Must be approved by Biological Science Faculty. (PR: Junior/Senior Status)

## BUSINESS (BUSN)

- 141 Business in the News (CT). 3 hrs.**  
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.

## CHEMISTRY (CHM)

(The Department of Chemistry is certified by the Committee on Professional Training of the American Chemical Society.)

- 111 Foundations of Chemistry. 3 hrs.**  
This course will introduce students to basic chemical facts and concepts. Topics will include units, dimensional analysis, nomenclature, solutions, atomic structure, and stoichiometry. (PR: MTH ACT of 21 or better or C or better in MTH 127 or MTH 130)
- 203 General Chemistry I. 3 hrs. I, S.**  
An introduction to chemical science, its development, basic concepts and interrelationships with other sciences. Intended primarily for non-science majors and B.A. degree candidates. 3 lec.
- 204 General Chemistry II. 3 hrs. II, S.**  
A continuation of Chemistry 203 with emphasis on introductory organic and biochemistry. 3 lec. (PR: CHM 203)
- 211 Principles of Chemistry I. 3 hrs. I, II, S.**  
A study of the properties of materials and their interactions with each other. Development of theories and applications of the principles of energetics, dynamics and structure. Intended primarily for science majors and pre-professional students. 3 lec. (PR or CR: CHM 217; PR: MTH ACT of 23 or better or C or better in CHM 111 or pass placement exam)
- 212 Principles of Chemistry II. 3 hrs. I, II, S.**  
A continuation of Chemistry 211 with emphasis on the inorganic chemistry of the representative elements and transition metals. 3 lec. (PR: C or better in CHM 211; PR or CR: CHM 218)
- 217 Principles of Chemistry Laboratory I. 2 hrs.**  
A laboratory course that demonstrates the application of concepts introduced in Chemistry 211. (CR or PR: CHM 211).
- 218 Principles of Chemistry Laboratory II. 2 hrs.**  
A laboratory course that demonstrates the application of concepts introduced in Chemistry 212. (CR or PR: CHM 212)
- 218H Principles of Chemistry Honors Laboratory II. 2 hrs.**  
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. (CR or PR: CHM 212 and admission to the Honors College)
- 254 Basic Concepts of Organic Chemistry. 3 hrs.**  
An intensive review of chemical principles intended to better prepare students for organic chemistry (CHM 355). (PR: C or better in CHM 212)
- 280-283 Special Topics. 1-4; 1-4; 1-4; 1-4 hrs.**
- 290H-291H Honors in Chemistry. 1-4 hrs.**  
Independent study or undergraduate research project for outstanding students. (PR: permission of department chair and admission to the Honors College)
- 305 Research Methods in Chemistry. 1 hr. I.**  
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. (CR: CHM 345, CHM 357, CHM 365, or permission of the chair)
- 307 Introductory Physical Chemistry. 4 hrs. II.**  
A brief survey of physical chemistry including the topics of thermodynamics, molecular structure, and kinetics. Intended for students needing a broadly based science background. 3 lec., 2 lab. (PR: C or better in all of the following: CHM 212, MTH 140 or 229, PHY 201 or 211)
- 327 Introductory Organic Chemistry. 3 hrs. I.**  
A one semester introduction to organic chemistry emphasizing structure, nomenclature, and reactivity. (Cannot fulfill an upper division chemistry elective.) 3 lec. (PR: CHM 212).
- 328 Introductory Organic Chemistry Laboratory. 2 hrs.**  
The laboratory to accompany CHM 327. Students learn the basic techniques used in the modern organic chemistry laboratory. (CR: CHM 327; PR: CHM 218)

- 331-332 Chemistry Seminar. Credit. I, II.**  
Students attend lectures presented by internal and external speakers to learn about the nature and variety of chemical research.
- 345 Introduction to Analytical Chemistry. 4 hrs. I, S.**  
Introduction to the 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. (PR: C or better in both CHM 212 and 218)
- 355 Organic Chemistry I. 3 hrs. I, II, S.**  
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. (PR: C or better in CHM 212)
- 356 Organic Chemistry II. 3 hrs. I, II, S.**  
Continuation of Chemistry 355. 3 lec. (PR: C or better in CHM 355)
- 357 Physical Chemistry I. 4 hrs. I**  
A systematic study of physical chemistry. 3 lec.-2 lab. (PR: C or better in all of the following: CHM 212, PHY 211, and MTH 230)
- 358 Physical Chemistry II. 4 hrs. II.**  
A systematic study of physical chemistry, 3 lec.-2 lab. (PR: CHM 357)
- 361 Introductory Organic Chemistry Lab. 3 hrs. I, II, S.**  
An introduction to experimental organic chemistry with emphasis on fundamental techniques and their application to the preparation and identification of organic compounds. 6 lab. (PR or CR: CHM 356)
- 361H Introductory Honors Organic Chemistry Lab. 3 hrs.**  
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.
- 365 Introductory Biochemistry. 3 hrs. I, S.**  
A survey course including introduction to basic biochemical concepts, metabolic pathways, and bioenergetics. 3 lec. (PR: C or better in either CHM 327 or CHM 356)
- 366 Introductory Biochemistry Laboratory. 2 hrs. II.**  
Introduction to basic biochemical laboratory techniques including chromatography, electrophoresis, and enzyme kinetics; methods for identification and characterization of biochemical systems. 4 lab. (PR: C or better in either CHM 365 or BSC 365)
- 390H-391H Honors in Chemistry. 1-4 hrs.**  
Independent study or undergraduate research project for outstanding students. (PR: permission of department chair and admission to the Honors College)
- 401 Research for Undergraduates. 2 hrs. I, II, S.**  
Students engage in a research project in collaboration with a faculty member. (PR: Permission of instructor and department chair; CHM 345 or 358 depending on area of interest)
- 402 Research for Undergraduates. 4 hrs. I, II, S.**  
Students engage in a research project in collaboration with a faculty member. (PR: CHM 401)
- 411 Modern Instrumental Methods in Chemistry and Biochemistry. 4 hrs.**  
This course investigates the theory and functional aspects of modern analytical instrumentation. Emphasis is placed on components of instruments and applicability of various techniques to specific analytical problems. (PR: C or better in either CHM 307 or CHM 357)
- 423 Environmental Analytical Chemistry. 4 hrs.**  
Sampling and modern instrumental analysis of water, air and sediments according to EPA methodology. For students enrolled in the B.S.; Major in Environmental Chemistry program. (PR: C or better in CHM 411)
- 428 Introduction to Forensic Science Methods. 3 hrs.**  
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)
- 431 Chemistry Seminar. Credit I, II.**  
A graduation requirement for all seniors enrolled in the B.S. in Chemistry program. 1 lec.
- 432 Chemistry Seminar. Credit I, II.**  
Students attend lectures presented by internal and external speakers to learn about the nature and variety of chemical research. Students also present oral and written presentations of their capstone experiences. 1 lec. (PR: CHM 490 or CHM 491)
- 440 Thermodynamics. 3 hrs.**  
An introduction to chemical thermodynamics and statistical mechanics. 3 lec. (PR: CHM 358)
- 448 Advanced Inorganic Chemistry I. 4 hrs.**  
Study of physical properties and periodic relationships of inorganic materials. 3 lec.-2 lab. (PR: CHM 356 and either 307 or 358)
- 449 Advanced Inorganic Chemistry II. 3 hrs.**  
A detailed consideration of bonding, structure, reaction rates and equilibrium involving inorganic materials, 3 lec. (PR: CHM 448)
- 451 Biological Mass Spectrometry. 4 hrs.**  
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. (PR CHM 307 or CHM 357 with a C or better)
- 458 Computational Chemistry. 4 hrs.**  
Introduction to modern methods and techniques for calculating molecular electronic structure, chemical properties and reactivities. (PR: CHM 358 or 307 or permission)
- 465 Advanced Organic Chemistry I. 3 hrs. I.**  
Studies of the dynamics of organic reactions with emphasis on mechanisms and stereochemistry. 3 lec. (PR: C or better in CHM 356)
- 466 Advanced Organic Chemistry II. 3 hrs. II.**  
A continuation of Chemistry 465 with emphasis on synthetic methods. 3 lec. (PR: C or better in CHM 465)
- 467 Intermediate Biochemistry. 3 hrs. II.**  
An intermediate level discussion of the biochemistry of mammalian cells. (PR: C or better CHM 365)
- 480-483 Special Topics. 1-4; 1-4; 1-4; 1-4 hrs.**
- 485-488 Independent Study. 1-4; 1-4; 1-4; 1-4 hrs.**
- 490 Chemistry Internship. 1-6 hrs. I, II.**  
Students engage in supervised chemical laboratory work in a professional setting. (PR: 8 hours of required 300/400 chemistry classes and pre-approval of project by instructor)
- 491 Capstone Experience. 2-4 hrs. I, II.**  
Students engage in a collaborative research project with a faculty member. (PR: 8 hours of required 300/400 chemistry classes and pre-approval of project by instructor)
- 495H-496H Honors in Chemistry. 3-4; 3-4 hrs. I, II, S.**  
Open only to chemistry majors of outstanding ability. (PR: permission of department chair and admission to the Honors College)

## CIVIL ENGINEERING (CE) EMPHASIS

- 241 Introduction to Geomatics. 4 hrs. I.**  
Introduction to methods and tools used to measure, analyze, and present surveying data: horizontal distances, elevation, directions, angles, locations, areas, and volumes on or near the earth's surface. 4 lec.-4 lab. (Concurrent PR: MTH 229; PR: ENGR 107 and ENGR 111)
- 312 Structural Analysis. 3 hrs. I.**  
Force and deflection analysis in determinate and indeterminate structures; influence lines for beams and trusses; dead, live, snow, and wind loads on structures; introduction to computer programs for structural analysis. (PR: ENGR 216; PR or CR: MTH 231)
- 321 Engineering Materials. 4 hrs. I.**  
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. (PR: ENGR 216)
- 322 Soil Mechanics. 4 hrs. II.**  
The study of the engineering behavior of soils. Soil compaction, consolidation, settlement, shear strength, lateral earth pressures, bearing capacity and slope stability. Laboratory testing of soil composition and properties. 3 lec.-3 lab. (PR: ENGR 216, GLY 200)
- 331 Hydraulic Engineering. 3 hrs. II.**  
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. (PR: ENGR 318)
- 342 Transportation Engineering. 3 hrs. II.**  
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. (PR: CE 241)
- 413 Reinforced Concrete Design. 3 hrs. II.**  
Theory of reinforced concrete; design using ACI318 working stress and ultimate strength methods; design of beams, one-way slabs, and columns using ultimate strength design; and development lengths and splices. (PR: CE 312, CE 321)
- 414 Structural Steel Design. 3 hrs. II.**  
Design of tension members, columns, beams, beamcolumns, and connections using current AISC specifications. Introduction to the design of steel structures. (PR: CE 312)
- 421 Groundwater & Seepage. 3 hrs.**  
Fundamentals of groundwater flow; permeability; seepage principles; flownet interpretation; analytical and numerical solutions of confined and unconfined flows; filter design; geofabrics; subsurface drainage; groundwater contamination; disposal systems. (PR: CE 322)
- 425 Foundation Engineering. 3 hrs. I.**  
Earth pressure theories and design of earth retaining structures. Design of shallow and deep foundations. Settlement analysis. Slope stability analysis. Soil and site improvement. Subsurface exploration; design project. (PR: CE322)
- 432 Introduction to Water and Wastewater Treatment. 4 hrs. I.**  
Environmental laws; water quality and quantity; physical, chemical, and biological treatment of water and wastewater; environmental laboratory techniques. 3 lec. - 3 lab. (PR: ENGR 318, CHM 212)
- 433 Hydrologic Engineering. 3 hrs. I.**  
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. (PR: CE 331)
- 434 Advanced Water and Wastewater Treatment. 3 hrs. II.**  
Contemporary practices in sewage disposal and advanced waste treatment. Design of sedimentation units, biological treatment units, disinfection, and advanced waste treatment units. (PR: CE 432)
- 443 Highway Design. 3 hrs. I.**  
Highway planning and design, including the study of surveys and plans. Geometric design and horizontal and vertical alignment of interchanges. Drainage, pavements, economics, earthwork and environmental impact of highways. (PR: ENGR 214, CE 241, CE 342)
- 480-483 Special Topics in Civil Engineering. 1-4 hrs.**  
Current topics in civil engineering to be selected depending on the interest of students and faculty. (PR: Senior Standing)

## CLASSICS (CL)

General humanities courses, taught in English, open to all students at the academic level listed.

- 200 Building English Vocabulary Through Latin and Greek. 3 hrs. I, II.**  
Study of Latin and Greek word elements to build skill in English vocabulary, both general and technical (or scientific-medical).
- 210 Love and War in the Ancient World (CT). 3 hrs.**  
Taught in English, this course examines the themes of love and war in Greek and Roman poetry and prose.
- 230 Ancient Greek and Roman Epic (taught in English). 3 hrs., I or II.**  
Introduction to the genre of ancient epic through reading Homer's Iliad and Odyssey and Vergil's Aeneid (or other ancient epics). (PR: ENG 101 or YGS 161)
- 231 Women in Greek and Roman Literature. 3 hrs. I or II.**  
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. (PR: ENG 101 or YGS 161)
- 232 Ancient Greek and Roman Drama. 3 hrs. I or II.**  
Taught in English, this is an introduction to Greek and Roman dramatic genres of tragedy and comedy using selected plays of Aeschylus, Sophocles, Euripides, Aristophanes, Seneca, Plautus, and Terence. (PR: ENG 101 or YGS 161)
- 233 Greek and Roman Historians, 3 hrs. I, or II.**  
Taught in English, this is a thematic study of Greek and Roman historiography by topic as much as by historian, including ancient rhetorical sources on the theory of history. (PR: ENG 101 or YGS 161)
- 234 Greek and Roman Poetry.**  
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.
- 235 The Ancient Novel. 3 hrs.**  
Taught in English, this course introduces students to the genre of ancient novel through selected examples by Heliodorus, Longus, Achilles Tatius, Xenophon of Ephesus, Petronius, Apuleius, or others. (PR: ENG 101 or YGS 161)
- 236 Murder in the Ancient World (CT). 3 hrs.**  
Taught in English, this is a thematic study of the topic of murder as it appears in the genres of tragedy, oratory and history. (PR: ENG 101 or YGS 161)
- 237 Literature in the Time of Nero. 3 hrs.**  
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. (PR: ENG 101 or equivalent)

- 250 Studies in Humanities. 3 hrs. I, II.**  
An interdisciplinary course to introduce students to the elements of a humanistic education. (Same as Philosophy 250 and Religious Studies 250; PR or CR: ENG 101)
- 280-283 Special Topics. 1-4; 1-4; 1-4; 1-4 hrs.**  
Selected topics not covered in regular course offerings. (PR: Permission of department chairman)
- 319 Classical Mythology. 3 hrs. I, II.**  
Study of the development of myth in ancient Greece and Rome; its place in ancient culture and its survival in the modern world. (PR: ENG 101 or YGS 161)
- 320 Love and Friendship in Ancient Greek and Roman Literature. 3 hrs.**  
A literary survey of ancient Greco-Roman love and friendship as shaped by family, marriage, religion, philosophy and politics. Ancient and modern texts read. (PR: ENG 101 or YGS 161)
- 326 Classical Archaeology. 3 hrs. I or II.**  
Archaeology of ancient Greece and Rome, and their colonies and their imperial domains. (Same as Anthropology 370.) (PR: ENG 101 or YGS 161)
- 390-394 Junior Seminar in Humanities. 3 hrs.**  
A structured interdisciplinary study offered by the departments of Classics, Philosophy, and Religious Studies in the foundations of human thought, myth, literature, religion, philosophy, and art (Same as PHL 390-394 and RST 390-394). (CR/PR: ENG 102, 201, 302, 201H, YGS 152, IST 201, or one course from CL 231, 232, 233, 319, PHL 200, 201, 303, 321, 340, 353, RST 205, 206, 300, 304, 320, 325)
- 435 Greek Civilization. 3 hrs. II.**  
Study of ancient Greek culture, emphasizing parallels with present-day issues. (PR: ENG 101 or YGS 161)
- 436 Roman Civilization. 3 hrs. II.**  
Study of ancient Roman culture, emphasizing parallels with present-day issues. (PR: ENG 101 or YGS 161)
- 460 Ancient Goddess Religions. 3 hrs.**  
Study of the mythology and cults of the goddesses of Greece, Asia Minor, Crete and Rome, with a view to discovering cultural contexts.
- 470 Transformations of Myth. 3 hrs.**  
An examination of how ancient myth transforms into the psychological and fictional works of more modern times.
- 471 Ancient Sexuality. 3 hrs.**  
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. (PR: ENG 102, 201, 201H, or 302)
- 472 Rhetoric of Seduction. 3 hrs.**  
Taught in English, this course investigates the overlap of public and private persuasion through reading philosophical, political and romantic works, and analyzing contemporary campaigns.
- 473 Body, Sex and Violence in Rome. 3 hrs.**  
This class aims to explore the gross violation of the boundaries of the Roman body sexually, politically and socially, and how that symbolizes a breakdown of identity, personally and nationally. (PR: ENG 101 or equivalent)
- 475 Roman Law. 3 hrs.**  
Taught in English, this course provides an introduction to basic tenets of Roman law with particular attention to court cases and speeches.
- 480-483 Special Topics. 1-4; 1-4; 1-4; 1-4 hrs.**  
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. (PR: Departmental permission) (PR: ENG 101 or YGS 161)
- 485-488 Independent Study. 1-4; 1-4; 1-4; 1-4 hrs.**
- 490-494 Senior Seminar in Humanities. 3 hrs.**  
Designed for majors as a senior humanities seminar and the culminating interdisciplinary study in the Humanities program. (Same as PHL 490-494 and RST 490-494). (CR/PR: ENG 102, 201, 302, 201H, 302, YGS 152, IST 201, or one course from CL 231, 232, 233, 319, PHL 200, 201, 303, 321, 340, 353, RST 205, 206, 300, 304, 320, 325)
- 495H-496H Readings for Honors in Classics. 4; 4 hrs. I, II.**  
Open only to students of outstanding ability. See Honors Courses.

## **CLINICAL LABORATORY SCIENCES (CLS)** **(MLT Associate Degree Program and MLS Bachelor's Degree Program)**

- 100 Introduction to Health Professions. 1 hr. CR/NC. I.**  
Introduction to health sciences careers and professions, emphasizing programs at Marshall University. Features practitioners involved in health care delivery and educational programs.
- 105 Medical Terminology and Introduction to Laboratory Medicine (CT). 3 hrs.**  
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.
- 200 Clinical Biochemistry. 4 hrs. I.**  
Theory and practice of clinical laboratory testing of serum, plasma, urine, body fluids in disease diagnosis. 3 lec-3 lab. (PR: CHM 211, 212, min. 2.0 GPA, with C grade in MTH 120, and permission)
- 210 Clinical Immunohematology. 4 hrs. II.**  
Theory of immune mechanisms in the body and applications for diagnostic testing and blood transfusion. 3 lec-3 lab. (PR: CLS 110, 200, and permission)
- 220 Clinical Microbiology. 4 hrs. II.**  
A study of bacterial, fungal, and parasitic related diseases, including diagnostic approach and techniques. 3 lec-3 lab. (PR: CLS 200, permission)
- 230 Clinical Hematology. 4 hrs. I.**  
Theory and practice of clinical laboratory tests of red and white blood cells, as well as blood clotting. 3 lec-3 lab. (PR: BSC 227 or equivalent with minimum C; minimum 2.0 GPA, and permission)
- 255 Clinical Laboratory Problems. 3 hrs. II.**  
Case studies of instrumental and diagnostic problems encountered by the laboratory technician. 3 lec. (PR: CLS 110, 200, permission)
- 270 Clinical Practicum, Hematology. 3 hrs. S, I.**  
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. (PR: CLS 255, permission)
- 271 Clinical Practicum, Chemistry. 3 hrs. S, I.**  
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. (PR: CLS 255, permission)
- 272 Clinical Practicum, Immunohematology. 3 hrs. S, I.**  
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 four courses, CLS 270-273, taken concurrently. (PR: CLS 255, permission)



- 273 Clinical Practicum, Microbiology. 3 hrs. S, I.**  
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. (PR: CLS 255, permission)
- 285-288 Independent Study. 1-4; 1-4; 1-4 hrs. S, I, II.**  
(PR: Permission)
- 310 Clinical Immunology and Molecular Diagnosis. 3 hrs. II.**  
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. (PR: CLS 210)
- 400 Advanced Clinical Chemistry. 2 hrs.**  
Advanced theory, practice, problem solving, and critical thinking in the laboratory specialty of clinical chemistry. (PR: CLS 200, permission)
- 410 Advanced Clinical Immunohematology. 2 hrs. I.**  
Advanced theory in clinical immunohematology. Students learn in-depth diagnostic work-up problem solving involving patients with anemia, leukemia, and bleeding disorders. (PR: CLS 272, CLS 310)
- 420 Advanced Clinical Microbiology. 2 hrs. I.**  
Advanced theory, practice, problem solving, and critical thinking in the laboratory specialty of diagnostic microbiology. (PR: CLS 271, 273, 310)
- 430 Advanced Clinical Hematology. 2 hrs.**  
Advanced theory in clinical hematology. Students learn in-depth diagnostic work-up problem solving involving patients with anemia, leukemia, and bleeding disorders. (PR: CLS 230, permission)
- 460 Clinical Laboratory Management and Education. 3 hrs. I.**  
Laboratory personnel and resource management, cost control, cost analysis, lab marketing, accreditation and CLS education practices. (PR: ECN 200 and permission)
- 464 Clinical Laboratory Instrumentation and Information Systems. 3 hrs. I.**  
Principles of instrumental electronics and data systems; interpretation of instrumental outputs, troubleshooting, computerized statistical methods. 3 lab. (PR: PHY 201-204 and CLS 272)
- 466 Diagnostic Physiology. 2 hrs. II.**  
Pathologic aspects of laboratory medicine with case studies, diagnostic problem solving, student projects. 3 lec. (PR: CLS 270-273, permission)
- 468 Clinical Laboratory Research. 2 hrs. II.**  
Directed independent research in the hospital laboratory setting during 16-week period. Capstone experience, writing intensive. (PR: CLS 450-466, permission; CR: CLS 472, CLS 472, CLS 491)
- 472 Advanced CLS Clinical Practicum I. 1-3 hrs. II.**  
Advanced theory, practice, problem solving, and critical thinking in the clinical laboratory areas of clinical hematology and/or transfusion services. (CR: 473; PR: CLS 410)
- 473 Advanced CLS Clinical Practicum II. 1-3 hrs. II.**  
Advanced theory, practice, problem solving, and critical thinking in the clinical laboratory areas of clinical chemistry and/or clinical microbiology. (CR: CLS 472; PR: CLS 421)
- 480-483 Special Topics. 1-4 hrs. I, II, S.**  
(PR: Permission)
- 485-488 Independent Study. 1-4 hrs. S, I, II.**  
(PR: Permission)
- 499 Seminar: Readings in Laboratory Medicine. 2 hrs. II.**  
For Medical Laboratory Science students. Students and faculty present and critique articles from recent clinical laboratory-related publications. (PR: CLS 468)

## COMMUNICATION DISORDERS (CD)

- 101 Introduction to Communication Disorders. 3 hrs.**  
Introduction to the field of Communication Disorders for majors. Discussion of the various communication disorders, as well as the roles and responsibilities of the speech-language pathologist.
- 228 Language and Speech Development. 3 hrs.**  
Theories of language acquisition; sequential patterns in the acquisition of prelinguistic communication, speech and language in relationship to general child development.
- 229 Anatomy and Physiology of the Speech and Hearing Mechanism. 3 hrs.**  
Introduction to the anatomy and physiology of the speech and hearing mechanism and the neurological system.
- 239 Phonetics. 3 hrs.**  
Introduction to articulatory phonetics; study of the International Phonetic Alphabet and practice in broad transcription of normal and disordered speech; discussion of social dialects.
- 241 Introduction to Communication Science. 3 hrs.**  
A survey of the physical and psychophysical bases of communication with discussion of elementary communication models.
- 322 Developmental Speech Disorders. 3 hrs.**  
Introduction to developmental speech disorders; etiologies and symptoms; principles of assessment and treatment. (PR: admission to program and permission of advisor)
- 328 Developmental Language Disorders. 3 hrs.**  
Introduction to theoretical bases of developmental language disorders; etiologies and symptoms; principles of assessment and treatment. (PR: admission to program and permission of advisor)
- 330 Acquired Communication and Swallowing Disorders. 3 hrs.**  
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. (PR: admission to program and permission of advisor)
- 370L Field Experience: Speech and Language. 1 hr.**  
Experience with preschool age children; planning and implementing speech and language stimulation activities. (PR: admission to program and permission of advisor)
- 401 Inquiry in Communication Disorders. 1-3 hrs.**  
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. (PR: admission to program and permission of advisor)
- 415 Professional Literacies for SLP's. 3 hrs.**  
Investigation into contemporary understandings of literacy using current communication and information technologies and resources. Capstone experience. (PR: admission to program and permission of advisor)

- 418 Communication Disorders of School Children. 3 hrs.**  
A survey of the causes, symptoms, and treatment of communication disorders encountered in the classroom. Not open to CD majors.
- 420 Voice and Fluency Disorders. 3 hrs.**  
Introduction to voice and fluency disorders; etiologies and symptoms; principles of assessment and treatment. (PR: admission to program and permission of advisor)
- 424 Diagnostic Processes with Communication Disorders. 3 hrs.**  
Examination of assessment procedures for differential diagnosis of various communication disorders; a study of symptom complexes; interpretation of diagnostic data. (PR: admission to program and permission of advisor)
- 424L Diagnostic Processes Laboratory. 1 hr.**  
Observation and practice in evaluating individuals with communication disorders. (PR: admission to program and permission of advisor)
- 426 Therapeutic Procedures I. 3 hrs.**  
Examination of therapeutic procedures relative to developmental speech disorders. Capstone experience. (PR: admission to program and permission of advisor)
- 426L Therapeutic Procedures I Lab. 1 hr.**  
Observation of individuals with communication disorders and introduction to analysis of the clinical process. (PR: admission to program and permission of advisor)
- 427 Therapeutic Procedures II. 3 hrs.**  
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. Capstone experience. (PR: CD 370L, 328 and permission of instructor)
- 460 Basic Audiology. 3 hrs.**  
Introduction to hearing disorders; examination of the auditory system, psychophysical processes and preferred practice and procedures for assessment. Includes laboratory. (PR: admission to program and permission of advisor)
- 461 Sign Language for the SLP. 3 hrs.**  
Introduction to basic signs and finger spelling. Overview of different sign systems. (PR: Permission of Department).
- 463 Aural Rehabilitation. 3 hrs.**  
Examination of various intervention strategies appropriate for individuals with hearing impairments; techniques for assessing degree of handicap. (PR: admission to program and permission of advisor)
- 468 Introduction to Clinical Principles. 3 hrs.**  
Examination of the principles and processes of identification, diagnosis and treatment of communication disorders and differences. (PR: admission to program and permission of advisor)
- 470L Therapeutic Procedures Laboratory. 1 hr. CR/NC.**  
Guided and independent observation and analysis of the clinical process. (PR: admission to program and permission of advisor)
- 472 Clinical Practicum with School Children. 6 hrs. CR/NC**  
Supervised clinical practice with school-aged children; fulfills student teaching requirements for West Virginia Certification as a Speech Language Pathologist. (PR: admission to program and permission of advisor)
- 480-483 Special Topics. 1-4; 1-4; 1-4; 1-4 hrs.**  
(PR: admission to program and permission of advisor)
- 485-488 Independent Study. 1-4; 1-4; 1-4; 1-4 hrs.**  
(PR: admission to program and permission of advisor)
- 495H-496H Readings for Honors in Communication Disorders. 1-4 hrs.**  
Open only to CD majors of outstanding ability. (PR: admission to program and permission of advisor)

## COMMUNICATION STUDIES (CMM)

- 103 Fundamentals of Speech Communication. 3 hrs.**  
A course designed to enhance the development of critical thinking skills and their application to verbal and nonverbal interaction in interpersonal and public communication contexts.
- 104H Honors in Speech Communication. 3 hrs.**  
An accelerated course for selected freshmen and sophomores in fundamentals of communication, concepts and skills in verbal/nonverbal communication and listening. (Substitute for CMM 103) (PR: Admission to Honors College)
- 201 Communication Foundations (CT). 3 hrs.**  
Develops essential skills in reading and critically analyzing scholarly texts, and in writing academic papers.
- 205 The Rhetorical World (CT). 3 hrs.**  
An introduction to the study of rhetoric as a cultural force in influencing human behavior and societies and as a critical approach to interpreting cultural artifacts. (PR: CMM 103, 104H, or 207).
- 207 Business and Professional Communication. 3 hrs.**  
A study of the communication demands and skills relevant to the student's future role as a business or professional person.
- 213 Fundamentals of Interpersonal Communication. 3 hrs.**  
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.
- 239 Development and Appreciation of Film to 1930. 3 hrs.**  
The historical development of the motion picture as an art form from its first development to 1930. Analysis of the technical, social, economic and cultural factors which have influenced the medium.
- 240 Voice and Diction. 3 hrs.**  
Theory and practice of speech production and improvement. (PR: CMM 103)
- 255 Introduction to Computer-Mediated Communication. 3 hrs.**  
Use and implications of telecomputing for messaging, resource finding, and self-directed discovery learning.
- 270-271 Intercollegiate Debate. 1; 1 hr.**  
(PR: Permission of instructor)
- 280-283 Special Topics. 1-4; 1-4; 1-4; 1-4 hrs.**  
(PR: Permission of department chair)
- 285-288 Independent Study. 1-4; 1-4; 1-4; 1-4 hrs.**  
(PR: Permission of chair)
- 297-298 Instructional Television Course. 1-4 hrs.**  
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.
- 302 Professional Presentations. 3 hrs.**  
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. (PR: CMM 103, 104H, or 207)



- 303 Introduction to Communication Theory. 3 hrs.**  
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. (PR: CMM 103, 104H, 207, 213, or YGS 161).
- 307 Political Communication. 3 hrs.**  
Investigation of the functions, ethics, responsibilities and social impact of oral communication in periods of social unrest and/or political change. (PR: CMM 103, 104H, 207, or 213)
- 308 Persuasive Communication. 3 hrs.**  
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: CMM 103, 104H, or 207)
- 310 Argumentation and Debate. 3 hrs.**  
Basic principles of argument; practice in discussion and debate. Recommended but not a prerequisite for intercollegiate debating. (PR: CMM 103, 104H, or 207)
- 311 Language and Communication. 3 hrs.**  
This course explores how language works in human discourse by examining the game of languages: its players, strategies, and hidden rules.
- 315 Group Communication. 3 hrs.**  
Study of group communication processes, including problem solving, systems of group communication analysis and evaluation, in task oriented groups. (PR: CMM 103, 104H, or 207)
- 316 Legal Communication. 3 hrs.**  
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. (PR: CMM 103, 104H, or 207)
- 319 Superior-subordinate Communication. 3 hrs.**  
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. (PR: CMM 103, 104H, or 207)
- 320 Oral Interpretation of Literature. 3 hrs.**  
The fundamentals of reading, analyzing, and interpreting literature.
- 322 Intercultural Communication. 3 hrs.**  
A study of the barriers to communication across cultures and of strategies for addressing these problems. (PR: CMM 103, 104H, or 207)
- 330 Performance Theory. 3 hrs.**  
This course will focus on the study of performance practices that function as enactments of cultural identity. General topics will include performance as a cultural process, performance in social roles, and performance as power. The subject matter will draw upon historical and contemporary art forms, public rituals and celebrations, ethnographic studies, and film/video documentaries. (PR: CMM 103, 104H or 207)
- 345 Listening and Feedback. 3 hrs.**  
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. (PR: CMM 103, 104H, or 207)
- 370-371 Intercollegiate Forensics 1; 1hr.**  
Continuation of CMM 270-271. (PR: Permission of instructor)
- 374 Introduction to Health Communication. 3 hrs.**  
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.
- 401 Organizational Communication. 3 hrs.**  
Investigation of information flow in organizations with emphasis on identifying communication problems. (PR: CMM 303)
- 402 Rhetorical Theory. 3 hrs.**  
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.
- 403 Nonverbal Communication. 3 hrs.**  
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.
- 404 Rhetorical Communication Criticism. 3 hrs.**  
An examination of the construction of rhetorical texts and the effects they produce.
- 406 Interviewing. 3 hrs.**  
Skill development in the question-answer-response process as it applies to a variety of interviewing situations.
- 408 Leadership and Group Communication. 3 hrs.**  
A study of the variables affecting, and affected by, communication process in small groups, with particular emphasis upon leadership variables. (PR: CMM 315)
- 409 Theories of Persuasion and Change. 3 hrs.**  
Study of the relationship between persuasion and social change, including theories of attitude and behavioral change and contemporary theories of persuasion.
- 411 Communication Study and Research. 3 hrs.**  
Introduction to the advanced study of theory and research areas with emphasis on communication research methods and reporting. (PR: Senior majors in Communication Studies; CMM 303)
- 413 Theories of Interpersonal Communication. 3 hrs.**  
A survey and analysis of theories related to interpersonal communication in relationships. Emphasis is on the communication processes and contingencies underlying relationship development, maintenance, and disengagement in various interpersonal contexts. (PR: CMM 213)
- 420 Communication and Conflict. 3 hrs.**  
An exploration of the theory, research, and practice of communication in understanding and negotiating interpersonal conflict.
- 421 Gender and Communication. 3 hrs.**  
An exploration of gender as an organizing principle for communication.
- 441 Development and Appreciation of Film Since 1930. 3 hrs.**  
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.
- 450 Direction of Speech Activities. 3 hrs.**  
Direction of extracurricular speech activities: assemblies, forensic events, etc.
- 456 Computer-Mediated Communication. 3 hrs.**  
This course explores the impact of computer-mediated communication on human organization.
- 474 Health Communication in Interpersonal Contexts. 3 hrs.**  
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.

- 476 Communication for Classroom Teachers. 3 hrs.**  
Knowledge and utilization of interpersonal communication skills in all teaching-learning environments.
- 478 Senior Seminar. 3 hrs.**  
Capstone experience. The development, organization, revision and presentation of major projects that serve to demonstrate the student's competence in the discipline. (PR: CMM 411)
- 479 Public Health Communication. 3 hrs.**  
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.
- 480-483 Special Topics in Communication Studies. 1-4; 1-4; 1-4; 1-4 hrs.**
- 485-488 Independent Study. 1-4; 1-4; 1-4; 1-4 hrs.**  
(PR: Permission of department chair)
- 490 Internship. 1-4 hrs.**  
(PR: Permission of department chair)
- 495H-496H Readings for Honors in Communication Studies. 4; 4 hrs.**  
Open only to speech majors of outstanding ability. See Honors Courses. (PR: Permission of department chair)
- 497-498 Instructional Television Course. 1-4 hrs.**  
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.

## COMPUTER SCIENCE (CS)

- 105 Explore the World with Computing (CT). 3 hrs.**  
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.
- 110 Computer Science I. 3 hrs. I, II.**  
Object-oriented and algorithmic problem solving principles and techniques, programming with classes in an integrated programming environment, and program debugging. 2 lec-2 lab. (PR: Computer Science Major, or Pre Computer Science major, or math ACT 23; and concurrent PR: (MTH 127 and MTH 132) or (MTH 130 and MTH 132) or MTH 132 or MTH 229 or MTH 229H)
- 110H Computer Science I Honors. 3 hrs.**  
Object-oriented and algorithmic problem solving principles and techniques; programming with classes in an integrated programming environment; and program debugging. (PR: admittance to the Honors College AND Math ACT of 23 or higher)
- 120 Computer Science II. 3 hrs. I, II.**  
Object-oriented analysis and design, advanced programming with classes, arrays, strings, sorting, searching, I/O, GUI development, system life cycle and software development methodologies. 2 lec-2 lab. (PR: Computer Science Major, or Pre- Computer Science major, or math ACT 23; and CS110 and concurrent PR: (MTH 127 and MTH 132) or (MTH 130 and MTH 132) or MTH 132 or MTH 229 or MTH 229H)
- 205 Scientific Computing. 3 hrs.**  
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. (CR: MTH 229)
- 210 Data Structures and Algorithms. 3 hrs. I, II.**  
Design and implementation of data structures including stacks, queue, lists, trees, heaps, balanced trees, and graphs. Other topics include hashing, threading, data parsing, program testing, correctness, efficiency, and exceptions. (PR: CS 120 and MTH 220 or MTH 229 or MTH 230)
- 215 Advanced Data Structures and Algorithms. 3 hrs. II.**  
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 NO-complete problems. (PR: CS 210 and MTH 220)
- 280-283 Special Topics. 1-4 hrs. I, II, S.**
- 300 Programming Languages. 3 hrs. II.**  
Comparative study of the concepts found in contemporary programming languages. Emphasis is on design and evaluation of a language in terms of its features and their implementation. (PR: CS 210.)
- 305 Software Engineering. 3 hrs. I.**  
This course provides a broad introduction to software engineering theories, methods, and tools. Topics include requirements engineering, analysis and design, implementation, versioning, and testing. (PR: MTH 220 and CS 210)
- 315 Software Quality Assurance. 3 hrs.**  
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. (PR: CS 310 and MTH 345)
- 320 Internetworking. 3 hrs. I.**  
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. (Concurrent PR: MTH 229; PR: CS 210)
- 330 Operating Systems. 3 hrs. I.**  
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. (PR: CS 210)
- 340 Cyber Security. 3 hrs. II.**  
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. (PR: CS 320)
- 360 Automata and Formal Languages. 3 hrs.**  
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 Church-Turing thesis. (PR: CS 300)
- 370 Computer Graphics. 3 hrs. I.**  
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 OpenGL standard. (PR: CS 210 and MTH 329)
- 402 Computer Architecture. 3 hrs.**  
Design and analyze structure of major hardware components of computers including ALU, instructions sets, memory, hierarchy, parallelism through multicore and many core, storage systems and interfaces. (PR: CS 300)
- 404 High Performance Computing. 3 hrs.**  
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, and OpenCL. (PR: CS 300 or ( C/C++ programming and consent of the instructor))

- 405 Computing for Bioinformatics. 3 hrs.**  
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. (PR: CS 215)
- 410 Database Engineering. 3 hrs. II.**  
Study of data models, data description languages, query languages including relational algebra and AQL, logical and physical database design, transactions, backup and recovery. Design and implementation of a database application. (PR: CS 305)
- 420 Distributed Systems. 3 hrs. II.**  
Study of distributed system concepts and issues, architectures and frameworks for developing distributed applications, and future trends. (PR: CS 320 and CS 330; limited enrollment, permission of instructor required)
- 425 Computational Intelligence. 3 hrs. II.**  
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.
- 440 Digital Image Processing. 3 hrs. I.**  
Mathematical techniques, algorithms, and software tools for image sampling, quantization, coding and compression, enhancement, reconstruction, and analysis. (PR: CS 210 and MTH 329)
- 455 Systems Engineering. 3 hrs.**  
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. (PR: CS 340 and CS 350)
- 450 Information Retrieval. 3 hrs.**  
Theory, design, and algorithms for modeling and retrieving text. Text representation, IR models, query operations, retrieval evaluation, information extraction, text classification and clustering, enterprise and Web search, recommender systems. (PR: CS 215 or consent of instructor)
- 452 Natural Language Processing. 3 hrs.**  
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.
- 460 Multimedia Information Retrieval. 3 hrs. I.**  
Theoretical and design issues in content-based multimedia information systems and an in-depth exposition of retrieval and presentation issues related to various media—image, audio, and video. (PR: CS 210)
- 475 Internship. 3-12 hrs. I, II, S. CR/NC.**  
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. (PR: CS 310 and Computer Science major with Junior/Senior standing.)
- 480-483 Special Topics. 1-4 hrs. I, II, S.**
- 485-488 Independent Study. 1-4 hrs. I, II, S.**
- 490 Senior Project. 3 hrs. I.**  
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. (PR: CS 340, CS 350, and standing as a Computer Science senior)
- 491 Senior Project II. 3 hrs. II.**  
Capstone experience: continuation of CS 490. (PR: CS 490)

## COUNSELING (COUN)

- 260 Peer Counseling. 3 hrs.**  
Theory, practice, and intervention of peer helping relationships. Demonstration and practice of basic helper skills for resident advisors. Does not satisfy requirements for core courses nor restrictive electives.
- 261 Introduction to Group Guidance. 3 hrs.**  
A Counselor Leadership training course focusing upon a systematic approach to selecting a leadership style. Specific areas include leadership theory, how to conduct groups, delegation, and goal setting. Not for Counseling majors.
- 262 Alcohol Counseling by Peers. 1 hr.**  
History and practice of alcohol prevention and intervention by peer helpers. Designed to meet the needs of resident advisors. Does not satisfy requirements for core courses nor restricted electives.
- 263 AIDS Awareness. 1 hr.**  
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.
- 280-281 Special Topics. 1-4; 1-4 hrs.**  
(PR: Permission of department chairman)
- 306 Introduction to Counseling. 3 hrs.**  
Introduction to the fields of counseling, various mental, physical and social disabilities, careers in counseling, counseling services and orientation processes. (CR: COUN 370)
- 370 Clinical Placement. 3 hrs.**  
Orientation to helping service agencies and practice in developing interviewing skills under professional supervision. A thirty-hour practical experience involving active contact under supervision enables students to explore their own abilities, to try the helping role, and to get acquainted with clients and helping agencies. (CR: COUN 306)
- 425 Counseling Theories and Techniques. 3 hrs.**  
Principles and practices of the interviewing relationship in helping service settings. (PR: COUN 306, 370. CR: COUN 470)
- 430 Case Development: Process and Management. 3 hrs.** Study of systematic development of casework to include case finding, follow-up provision of services, case recording and time management. (PR: COUN 306, 370 or permission of instructor)
- 455 Crisis Intervention. 3 hrs.**  
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 crises. Clinical experience required.
- 456 Death and Dying. 3 hrs.**  
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.
- 470 Advanced Practicum in Counseling. 3 hrs.**  
Practical experiences in counseling interviews under professional supervision. (CR: COUN 425, 448)
- 471 Health and Wellness Counseling. 3 hrs.**  
Designed to help counselors deal with lifestyle issues related to physical well-being and to demonstrate how health professionals can use counseling interventions in their work (PR: COUN 425 or permission)

- 474 Social and Cultural Foundations. 3 hrs.**  
Recognize and use appropriate resources for effective counseling of people of different cultural, ethnic, social, class, racial, geographic, or other backgrounds. Learn when counseling is appropriate and in what form.
- 475 Prevention and Treatment of Addictions. 3 hrs.**  
Course topics will include historical, medical, psychological, family dynamics of the disease process, and treatment modalities which enhance the likelihood of successful counseling with the dependent person and indirect victims. (PR: 306, 370 or permission)
- 476 Counseling With Parents. 3 hrs.**  
Consideration of effective parent counseling primarily from an Adlerian point of view. Techniques for counselor intervention via lecture, demonstration and laboratory experiences.
- 477 Stress Management Counseling. 3 hrs.**  
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.
- 478 Counseling with the Elderly. 3 hrs.**  
Counseling techniques and theories applied to problems of the elderly.
- 480-483 Special Topics. 1-4; 1-4; 1-4; 1-4 hrs.**  
(PR: Permission of department chairman)
- 485-488 Independent Study. 1-4; 1-4; 1-4; 1-4 hrs.**  
(PR: Permission of department chairman)
- 490 Counseling Internship. 6 hrs. CR/NC.**  
Participation in counseling process with a variety of individuals under supervision of cooperating agencies. Senior standing, majors only, overall 2.0 average, and permission of instructor. (PR: COUN 425, 470 or permission)
- 491-494 Counseling Workshop. 1-4; 1-4; 1-4; 1-4 hrs.**  
A practical, participatory course designed for advanced students and professionals in the counseling field or related areas.
- 495H-496H Readings for Honors in Counseling. 1-3; 1-3 hrs.**  
(PR: Permission of department chairman). See Honors Courses.
- 497 Family Counseling. 3 hrs.**  
Introductory course in current theory and practice in family counseling. Theoretical material on communication and structural approaches to family counseling. Reading, lecture and experiential exercises.
- 498 Introduction to Marriage Counseling. 3 hrs.**  
Covers the many dimensions marriage counselors deal with, including premarital counseling; the marriage contract (legal and extralegal contracts); marital decision making; divorce counseling; sexual dysfunction; financial counseling; spouse beating; alternatives to marriage; and relationships among the elderly.

## CRIMINAL JUSTICE (CJ)

- 200 Introduction to Criminal Justice. 3 hrs.**  
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.
- 211 Introduction to Law Enforcement. 3 hrs.**  
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.
- 221 Introduction to Criminal Courts. 3 hrs.**  
This course addresses the evolution and current functioning of the American criminal court system. Students are exposed to court administration, court procedures, and the state and federal court system.
- 223 Introduction to Legal Research. 3 hrs.**  
An introduction to the process 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.
- 231 Introduction to Corrections. 3 hrs.**  
Basic course in the American correctional system; study of the history of corrections, philosophy of punishment and correction, correctional institutions, programs, and services, and contemporary issues and problems.
- 241 Victims of Crime. 3 hrs.**  
Examines victims of crime, the process and consequences of victimization. Also covered are victims' rights and services available for victims and victim compensation.
- 280-283 Special Topics. 1-4 hrs.**  
Lower-level, specialized courses of contemporary interest.
- 300 Administration of Criminal Justice. 3 hrs.**  
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. (PR: CJ 200)
- 302 Criminal Justice Research Methods. 3 hrs.**  
Logic of social research methods, survey research, methods of evaluation, sampling, and the contrast between qualitative and quantitative Criminal Justice research. (PR: CJ 200)
- 312 Criminal Investigation. 3 hrs.**  
Investigation methodology, relations of the detective with other police divisions; modus operandi; sources of information; surveillance, interrogation, follow-up procedures. Criminal Justice majors only. (PR: CJ 211)
- 314 Crime Scene Investigation. 3 hrs.**  
This course exposes students to crime scene evidence, collection techniques, and the various uses of modern technology in preserving and analyzing evidence. Criminal Justice majors only. (PR: CJ 211)
- 316 Terrorism. 3 hrs.**  
Provides students with a working knowledge of the history of terrorism, the current status of terrorist groups, terrorism tactics, and methods to counteract terrorism.
- 322 Criminal Law. 3 hrs.**  
History and development of criminal law, elements of a crime, parties to a crime, types of offenses. (PR: CJ 200)
- 323 Criminal Procedure. 3 hrs.**  
Admissibility of evidence and confessions, recent civil rights decisions, reconciling individual rights and community interest in law and order. (PR: CJ 200)
- 325 Juvenile Justice. 3 hrs.**  
Study of the historical development, legal foundations, and present institutions, programs, and services in the juvenile justice system. (PR: CJ 200)

- 326 Computer Crime. 3 hrs.**  
Students will identify and define criminal acts committed with computers or directed toward computer systems, electronic search and seizure and electronic evidence.
- 331 Probation and Parole. 3 hrs.**  
Supervision of offenders in the community, including history, philosophy, legal foundations, strategies, professional roles and contemporary models, programs, and services. (PR: CJ 231)
- 332 Correctional Rehabilitation. 3 hrs.**  
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. (PR: CJ 231)
- 340 Drugs and Crime. 3 hrs.**  
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.
- 351 Principles of Crime Prevention. 3 hrs.**  
This course examines the theory, operation, and evaluation of crime prevention as a function of the criminal justice system. (PR: CJ 200)
- 400 Applied Ethics in Criminal Justice. 3 hrs.**  
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. (PR: CJ 200)
- 401 Teaching & Training in Criminal Justice. 3 hrs.**  
Students examine various theories and techniques used in teaching and training criminal justice professionals, develop lesson plans, and use technology based presentation media to present information. (PR: CJ 200)
- 404 Theoretical Criminology. 3 hrs.**  
A critical analysis of the major criminological theories and their empirical foundations. Current theory and research receive greater emphasis than historical development. (PR: CJ 200)
- 406 Race, Ethnicity, Gender and Crime. 3 hrs.**  
Examines the impact of race, ethnicity, and culture within the criminal justice system. Explores minorities and women as victims, witnesses, and offenders. (PR: CJ 200)
- 410 Police Administration. 3 hrs.**  
This course studies the functions and activities of police agencies, including police department organizations and responsibilities of police administrators. Current administrative and management techniques and theories are also explored. (PR: CJ 211)
- 421 Corrections and the Law. 3 hrs.**  
Review of legal principles relating to convicted criminals, including plea negotiations, sentencing, post-conviction remedies, constitutional rights of inmates, and conditions of confinement. (PR: CJ 200)
- 422 Law of Evidence. 3 hrs.**  
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. (PR: CJ 200)
- 423 Advanced Legal Research and Writing. 3 hrs.**  
Gives the student additional experience in legal research and introduces the skills required in drafting legal documents. (PR: CJ 200 and CJ 223, or permission)
- 426 Civil Liability Issues in Criminal Justice. 3 hrs.**  
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.
- 433 Correctional Administration. 3 hrs.**  
Objectives of correctional institutions; records; personnel, program development, security; educational programs. (PR: CJ 231)
- 440 Criminal Justice Response to Domestic Violence. 3 hrs.**  
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.
- 450 Business and Industry Security. 3 hrs.**  
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. Criminal Justice majors only. (PR: CJ 211)
- 453 Seminar in Crime Prevention. 3 hrs.**  
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. (PR: CJ 351)
- 480-483 Special Topics. 1-4 hrs.**  
Specialized courses of contemporary interest. (PR: Consent of the instructor)
- 485-488 Independent Study. 1-4 hrs.**  
This course permits the student to undertake supervised research (field or library) in any area where there is no appropriate course. (PR: Consent of the instructor)
- 490 Internship. 1-6 hrs.**  
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. (PR: Consent of the instructor; GPA of 2.5 or better)
- 492 Senior Seminar. 3 hrs.**  
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. (PR: Senior status, CJ 200, CJ 302 CJ 404)
- 495H-496H Readings for Honors in Criminal Justice. 2-4 hrs.**  
Open to criminal justice majors of outstanding ability. Study may deal with any aspect of criminal justice. Wide reading and comprehensive understanding of the subject are required. (PR: Consent of department chairman.) See Honors Courses.

## CURRICULUM AND INSTRUCTION (CI)

NOTE: The prerequisites ATED 4, ATED 5, and ATED 6 refer to different levels of Admission to Teacher Education. Contact the Associate Dean of Education for additional information.

- 100 Critical Thinking in Education (CT). 3 hrs.**  
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.
- 101 Mathematics Education: Mathematics for Elementary Teachers, I. 3 hrs. I, II, S.**  
Study of sets, logic, numeration systems, number systems, and number theory using an inquiry, laboratory oriented approach. (PR: MTH 121 or MTH 123 or MTH 130A, MTH 130E)



- 102 Introduction to Computers in the Classroom. 1 hr. I, II, S.**  
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.
- 201 Mathematics Education: Mathematics for Elementary Teachers, II. 3 hrs. I, II, S.**  
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 teacher strategies. (PR: CI 101 and MTH 121)
- 203 Children's Literature. 3 hrs.**  
Types of poetry and prose appropriate for elementary school pupils, with emphasis on methods of presentation. May not be used as an elective to meet requirements of the English major in the College of Liberal Arts.
- 280-283 Special Topics. 1-4; 1-4; 1-4; 1-4 hrs.**
- 297-298 Instructional Television Course. 1-4 hrs.**  
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.
- 301 Teaching Elementary School Mathematics. 3 hrs.**  
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.
- 303 Literature for Adolescents. 3 hrs.**  
A study of the various types of literature appropriate to the needs, concerns, and interests of the adolescent. (PR: ENG 102 or 201 or 201H; six hours of literature)
- 321 Early Childhood Curriculum and Methods. 3 hrs.**  
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. (PR: Admission to Teacher Education)
- 342 Literature and Language Arts. 3 hrs. I, II, S.**  
A unified method for developing basic reading-language principles derived from innovative and practical classroom experiences and approaches that include application of latest research relevant to reading-language behavior.
- 343 Introduction to Teaching Reading: Early Childhood Education and Middle Childhood Education. 3 hrs. I, II.**  
Presenting modern techniques and practices in the teaching of reading. (CR: CI 446)
- 345 Critical Reading, Writing, and Thinking. 3 hrs.**  
This course examines strategies for learning from text, studying different types of textual materials, monitoring learning, and integrating oral and written discourse. (PR: Admission to Teacher Education)
- 350 Instructional Technology and Computing. 3 hrs.**  
Critical examination and skill development using commercial, non-commercial, and computer generated media. Emphasis will be placed on its application to teaching and learning.
- 360 Elementary Social Studies Methods. 3 hrs.**  
An introduction to materials and methods for teaching Social Studies in the elementary school-including goals, processes, strategies, and evaluation. Discussion, demonstrations, media, and readings explain Social Studies.
- 401 Middle Childhood Curriculum. 3 hrs. I, II, S.**  
Study of procedures for creating a functional middle childhood curriculum with emphasis upon the needs of middle childhood learners. (PR: ATED 4)
- 403 Methods and Materials of Teaching in the Middle Childhood Grades. 3 hrs. I, II, S.**  
Study of methods appropriate for teaching in the middle childhood grades, and production and utilization of materials and resources in these grades. Clinical experience included. (PR or CR: ATED 4)
- 405 Elementary Education: Supervised Student Teaching. 4-12 hrs. I, II.**  
All-day teaching under supervision in cooperating schools; periodic seminars, conducted by University faculty, accompany student teaching. (PR: ATED 6)
- 410 Early Childhood Education: Supervised Student Teaching. 4-6 hrs. I, II.**  
All-day kindergarten teaching under supervision in cooperating schools; periodic seminars, conducted by University faculty, accompany student teaching. (PR: ATED 6)
- 415 Integrated Methods and Materials: Secondary Education. 3 hrs.**  
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. (PR: ATED 5)
- 417 Comprehensive Classroom Discipline Techniques. 3 hrs. I, II, S.**  
Identification of common classroom discipline problems and techniques for dealing with behavioral incidents in school settings K-12.
- 418 Classroom Motivation. 1-3 hrs. I, II, S.**  
Classroom motivation with an emphasis on theoretical constructs and practical applications for teachers of students from early childhood through adolescence.
- 442 Instructional and Classroom Management: Elementary Education.**  
This course allows elementary education students to critically examine a variety of classroom management strategies and educational issues that impact instruction. (PR: ATED 4)
- 446 Reading Education: Individual Assessment and Prescription Language Instruction. 3 hrs. I, II.**  
Study of reading-language difficulties, diagnostic devices and techniques, and preventive and prescriptive methods and materials. (CR: CI 343)
- 447 Integrated Reading and Language Arts Methods: Elementary Education. 3 hrs.**  
General elementary education course with emphasis on instruction standards and objectives, methods, and materials for Reading and Language Arts. (PR: ATED 5)
- 448 Integrated Science Methods: Elementary Education. 3 hrs.**  
General elementary education course with emphasis on instructional standards and objectives, methods, and materials for science.
- 449 Instructional and Classroom Management: Secondary Education. 3 hrs. I, S.**  
Classroom management with emphasis on practical techniques for dealing with management problems in secondary and middle school settings. (PR: ATED 4)
- 450 Secondary Education: Supervised Student Teaching. 4-12 hrs. I, II.**  
All-day teaching under supervision in cooperating schools; periodic seminars conducted by University faculty accompany student teaching. (PR: ATED 6)
- 452 Middle Childhood Education: Supervised Student Teaching. 4-6 hrs. I, II.**  
All-day student teaching in cooperating middle schools; periodic seminars conducted by university faculty accompany student teaching. (PR: ATED 6)
- 459 Multicultural Influences in Education: Techniques and Strategies. 3 hrs. I, S.**  
Multicultural education with an emphasis on methods and materials for teaching students from diverse cultural backgrounds.



- 460-464 Staff Development: 1-3 hrs.**  
Courses designed to meet the specific inservice needs of public school personnel. Credit may be used for certificate renewal and salary upgrading but not in degree programs. CR/NC grading.
- 470 Level II Clinical Experience. (Corequisite with the courses designated; no credit hours)**  
A Level II Clinical Experience teaching in a secondary public school. An opportunity to put theory into classroom practice. (PR: ATED 5; CR: CI 415)
- 471 Level II Clinical Experience. (Corequisite for courses listed, no credit)**  
A Level II Clinical Experience teaching in an elementary school. An opportunity to put theory into classroom practice. (PR: ATED 5; CR: CI 447)
- 472 Level II Clinical Experience.**  
A Level II Clinical Experience teaching in an elementary or secondary public school. An opportunity to put theory into classroom practice. For music majors only. (PR: ATED 5; CR: EDF 319)
- 480-483 Special Topics. 1-4; hrs. I, II, S.**
- 485-488 Independent Study. 1-4; 1-4; 1-4; 1-4 hrs.**  
Permission of chairman. Requires 2.5 GPA, limit of 6 hours to be used in professional education as a specialization.
- 495H-496H Readings for Honors in Education. 1-3; 1-3 hrs.**
- 497-498 Instructional Television Course. 1-4 hrs.**  
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.

## **CURRICULUM AND INSTRUCTION SPECIAL EDUCATION (CISP)**

- 320 Special Education: Survey of Exceptional Children. 3 hrs. I, II.**  
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.
- 420 Special Education: Survey of Exceptional Children II. 3 hrs. I, II.**  
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. (PR or CR: CISP 320)
- 421 Special Education: Children with Exceptionalities. 3 hrs. I, II, S.**  
Behavioral characteristics of children with exceptional development, dynamics of family- community interaction, and attitudes towards exceptional conditions. Implications for amelioration and educational planning. (Not for Special Ed majors) (PR: ATED 4)
- 422 Differentiated Instruction. 3 hrs.**  
Research-based strategies for providing differentiated instruction to students with diverse learning, social, and behavioral needs who are being educated in inclusive settings. (PR: CISP 421)
- 423 Special Education: Introduction to Learning Disabilities. 3 hrs. I, II.**  
An integrated, concise overview of specific learning disabilities; definitions, etiology; observable and identifiable symptoms and implications for amelioration. (PR: CISP 320)
- 424 Special Education: Introduction to Emotional Disturbances. 3 hrs. I, II.**  
Characteristics of emotional-social disturbances in children; dysfunction in behavior, academic achievement, and social relationships; etiology and educational implications are presented. (PR: CISP 320)
- 426 Introduction to the Gifted. 3 hrs. I, S.**  
An overview of giftedness in children; definitions, etiology, observable characteristics, and implications for educational agencies. (PR: CISP 320)
- 427 Introduction to Autism. 3 hrs.**  
This is a lecture-discussion course designed to survey current autism research, definitions, medical issues, differential diagnosis, treatment and educational methods for autistic children, youth, and adults.
- 428 Special Needs in Early Childhood Education. 3 hrs.**  
Emphasis will be given to enhancing the success of diverse learners through intervention strategies, family involvement, and interdisciplinary service delivery. (PR: CISP 421)
- 429 Introduction to Physically Handicapped. 3 hrs. I, S.**  
An introduction to the characteristics and needs of crippled and other health-impaired children. The medical aspects of physically handicapping conditions are considered. (PR: CISP 320; CR: Field experience)
- 433 Special Education: Introduction to Mental Retardation. 3 hrs. I, S.**  
Acquaints teachers with the characteristics and needs of the mentally retarded child. The status of the mentally retarded in our society and the impact of mental retardation on education. (PR: CISP 320. CR: Field experience)
- 434 Student Teaching: Physically Handicapped. 4-6 hrs. I, II.**  
All-day supervised teaching in special classes in cooperating public schools and/or hospital settings; periodic seminars conducted by University faculty accompany student teaching. (PR: CISP 320, 429, 431)
- 435 General Special Education Programming. 3 hrs.**  
Address the educational/curricular needs of students with mild learning problems in the categorical areas of mental retardation, behavior disorders, and specific learning disabilities.
- 439 Assessment in Special Education. 3 hrs.**  
Educational assessment and academic diagnostic evaluation for remediation/amelioration. Provides an understanding of teacher assessment and its implication for programming for exceptional children.
- 440 Special Education: Student Teaching with Mentally Retarded Children. 4-6 hrs. I, II.**  
All-day supervised teaching in special classes in cooperating schools; periodic seminars conducted by University faculty accompany student teaching. (PR: ATED 6)
- 445 Intervention Strategies for Preschool Special Education. 3 hrs.**  
Curriculum development and methodology used to teach young children with special needs. Integration, program development, management, material and equipment adaptation are emphasized.
- 453 Special Education: Curriculum and Methods for the Mentally Retarded. 3 hrs. I, II.**  
Principles and current trends in curriculum development are reviewed and evaluated toward the development of specific curriculums for the mentally retarded. Methods and materials are presented in relation to this development. (PR: CISP 320)
- 454 Working with Families of Exceptional Students. 3 hrs.**  
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.
- 455 Field Experience in Preschool Special Education. 3 hrs.**  
Supervised participation and directed teaching activities in a preschool special education program.

## CYTOTECHNOLOGY (CYT)

(Prerequisite: Admission is subject to approval by the Admissions Committee of a School of Cytotechnology.)

- 438 Cytological Methodology. 3 hrs. S.**  
Routine methods in cytology (specimen processing, staining, record keeping). Special methods (filtration, concentrations). Clinical microscopy (routine and special methods: light, phase, dark field).
- 439 Elementary Cytology. 3 hrs. S.**  
Fundamentals of cell structure, embryology, microbiology, and mycology as related to cytodiagnosis; characteristics of benign and malignant cells.
- 440 Genital Cytology. 6 hrs. I.**  
Cytology of the female genital tract in health and disease. The study of cells in normal, benign, and malignant stages of development.
- 441 Cytology of the Respiratory Tract. 3 hrs. I.**  
Cytology of the respiratory epithelium in health and disease. Study of the cell in normal conditions, in benign and malignant pathological conditions.
- 442 Cytology of the Body Cavities. 3 hrs. II.**  
Cytology of the pericardial, pleural, and abdominal cavities. Study of primary and metastatic tumors.
- 443 Cytology of the Urinary Tract. 3 hrs. I.**  
Cell changes resulting from benign diseases and malignant tumors of the urinary tract.
- 444 Cytology of the Breast. 3 hrs. II.**  
Cell changes resulting from benign diseases and malignant tumors of the breast.
- 445 Cytology of the Gastro-Intestinal Tract. 3 hrs. II.**  
Cytology of the alimentary tract in health and disease..
- 446 Research in Cytotechnology. 1 hr. I.**  
Directed independent cytodiagnostic research in the hospital setting. Capstone experience.
- 447 Advanced Methods in Cytology. 4 hrs. II.**  
Methods and procedures of tissue culture, chromosome analysis, and microphotography. Study of chromosome anomalies including Turner's, Down's, and Klinefelter's Syndrome. Study of pure mosaic anomalies.

## DANCE (DAN)

- 101 Introduction to Dance. 3 hrs.**  
Introduction to dance forms, principles of dance techniques, and role of dance in society.
- 205 Dance for the Musical Theatre. 3 hrs.**  
Introduction to various dance forms and styles necessary for musical theatre. Training in rhythm and coordination with emphasis on elementary techniques and routines.
- 210 Tap Dance. 2 hrs.**  
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.
- 230 Ballet Technique. 2 hrs.**  
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.
- 270 Dance Practicum. 1 hr.**  
Opportunity to study and perform concert dance. (PR: Permission of instructor; may be repeated for a total of 4 hours credit)
- 280-283 Special Topics in Dance. 1-4; 1-4; 1-4; 1-4 hrs.**  
Program of study not normally covered in other courses. Topics vary from semester to semester. (PR: Permission of department chairman)
- 301 Dance for Athletes. 3 hrs.**  
A course in Ballet and Modern Dance designed specifically for the student-athlete involved in intercollegiate competition.
- 316 Modern Jazz Dance. 2 hrs.**  
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.
- 320 Modern Dance Technique. 2 hrs.**  
Principles, movement, and performance techniques in modern dance. Course may be repeated for total of four hours credit. 2 lec.-2 lab

## DIETETICS (DTS)

- 201 Introductory Nutrition. 4 hrs.**  
Provides basic understanding of the science of nutrition and dietetics. The role of food and nutrient intake in health promotion and disease prevention will be explored in hands-on laboratory experiences.
- 202 Introductory Foods. 4 hrs.**  
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. (PR: DTS 201)
- 210 Nutrition. 3 hrs. I, II.**  
Principles of human nutrition and their application in planning and evaluating dietaries for individuals and families.
- 215 Assessment and Education Strategies in DTS. 3 hrs.**  
Establish a foundation for effective nutrition assessment and education of individuals and groups. (PR: DTS 201)
- 301 Foodservice Safety and Systems Management I. 4 hrs.**  
A study of foodservice management principles, with an in-depth investigation of food safety in foodservice establishments. Laboratory/field experiences provide students a better perspective of foodservice management in various institutions. (PR: DTS 202; CR: BSC 250)
- 302 Foodservice Safety and Systems Management II. 4 hrs.**  
A continued study of foodservice management principles; the course emphasizes quantity production, distribution, and service of foods as well as facility planning and design. (PR: DTS 301)
- 314 Nutrition & Diet Therapy. 3 hrs.**  
Principles of human nutrition and their application to healthy individuals and to the treatment and prevention of disease. (PR: Nursing major)
- 310 Life Span Nutrition. 3 hrs.**  
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, adolescent, adult, and elderly. (PR: DTS 201)
- 320 Intermediate Nutrition. 3 hrs.**  
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. (PR: DTS 201 and BSC 227 or concurrent)
- 403 Advanced Nutrition. 3 hrs.**  
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. ( PR: DTS 320, BSC 228, and CLS 200 or concurrent)

- 409 Community Nutrition. 3 hrs.**  
Nutritional needs of communities and the dietitian's role in addressing them are identified, and community nutrition programs are closely examined. (PR: DTS 320 or concurrent)
- 460 Research in Dietetics. 3 hrs.**  
An introduction to quantitative and qualitative research methodologies with application in the field of dietetics. (PR: Senior standing)
- 468 Chemistry of Foods. 3 hrs.**  
Experimental study of chemical and physical factors affecting food preparation. (PR: DTS 202 and CLS 200 or concurrent)
- 469 Medical Nutrition Therapy I. 3 hrs.**  
A study of medical diseases and conditions in relation to medical nutrition therapy and the nutrition care process. (PR: DTS 320 and BSC 228)
- 470 Medical Nutrition Therapy II. 3 hrs.**  
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. (PR: DTS 469)
- 476 Senior Seminar in Dietetics. 3 hrs.**  
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. (PR: Senior standing)

## EARLY CHILDHOOD EDUCATION (ECE)

- 101 Early Childhood Wellbeing. 3 hrs.**  
An introduction to the basic requirements and regulations for health and safety in early childhood programs serving children from birth to age eight.
- 102 Early Childhood Programs (CT). 3 hrs.**  
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.
- 201 Technology Skills for Early Childhood. 3 hrs.**  
Application of technology in the teaching and administration of early childhood education programs.
- 204 Parenting. 3 hrs.**  
This course examines parenting from a socio-cultural and developmental perspective using a systems model.
- 215 Family Relationships. 3 hrs.**  
Relationships in the family during its life cycle, with some consideration of family life in other cultures.
- 303 Child Development. 3 hrs.**  
Care and guidance of young children two through five years in relation to their physical, emotional, mental and social development. Observation and participation in nursery school required.
- 322 Language, Literacy, Numeracy for Young Children. 3 hrs.**  
An overview of the emergent nature of the development of language, literacy, and numeracy in young children within developmentally and culturally appropriate environments.
- 323 Assessment in Early Childhood. 3 hrs.**  
Realistic and practical guidance in providing learning experiences for children from diverse cultural backgrounds based upon authentic assessment practices.
- 324 Early Childhood Science and Math Methods. 3 hrs.**  
Strategies for integrating math, science and technology in early childhood curriculum with focus on inquiry approaches. (CR/PR: EDF 218 and ECE 303)
- 325 Play and Creativity. 3 hrs.**  
Exploration of creativity in young children's play including the meaning of symbolic representations and expressions through multiple media reflecting children's knowledge, skills and dispositions. (PR: ECE 303)
- 420 Infant/Toddler Environments and Relationships. 3 hrs.**  
Creation of developmentally supportive environments for infants and toddlers in group settings with emphasis on establishing nurturing relationships. (CR: ECE 421)
- 421 Infant/Toddler Education: Practicum. 3 hrs.**  
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. (PR: ECE 303)
- 430 Preschool Curriculum and Methods. 3 hrs.**  
Historical and contemporary curriculum and methods for preschool children with emphasis on current best practices.
- 431 Guidance of the Young Child: Practicum. 3 hrs.**  
Techniques of guidance of young children with emphasis on adult-child interaction. Laboratory observation required. (PR: COUN 435, ATED4)
- 435 Administration of Early Childhood Programs. 3 hrs.**  
Administration of early childhood programs serving infants, toddlers and preschool children.
- 472 Early Childhood Capstone. 3 hrs.**  
Application of ECE content knowledge in the management of early childhood programs: senior level capstone. Permission required. (PR: Permission)
- 485-488 Independent Study in Early Childhood Education. 1-4 hrs.**  
Permission of the coordinator. Requires 2.5 GPA, limit of 6 hours to be used in professional education as a specialization.

## ECONOMICS (ECN)

- 200 Survey of Economics. 3 hrs. I, II.**  
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)
- 202 Introduction to African Economies. 3 hrs.**  
This course is designed for non-Economics majors and students in African and African American studies. The course focuses on challenges and prospects facing these economies as they pursue economic development.
- 250 Principles of Microeconomics. 3 hrs. I, II.**  
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. (Not open to students who have completed ECN 200)
- 253 Principles of Macroeconomics. 3 hrs. I, II.**  
Introduction to the workings of the national economy. Focus on the forces driving economic growth, inflation, unemployment, and the country's international economic relations. (PR: ECN 200 or 250).
- 280-283 Special Topics. 1-4; 1-4; 1-4; 1-4 hrs.**

- 310 Money and Banking. 3 hrs. I, II.**  
Money, credit and credit institutions in the United States; monetary, fiscal, and banking functions of the Federal Reserve System. (PR: ECN 250, ECN 253)
- 326 Intermediate Macroeconomic Analysis. 3 hrs. II.**  
Advanced study of the national economy as a whole. The main topics focused on are: Economic growth, unemployment, inflation, international monetary & financial relations, and macroeconomic policy activity. (PR: ECN 250, ECN 253)
- 328 Intermediate Microeconomic Analysis. 3 hrs. I.**  
Microeconomic theories of the production and pricing of goods and services, payments to the factors of production. (PR: ECN 250, ECN 253)
- 340 Global Macroeconomic Issues. 3 hrs. I, II.**  
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. (PR: ECN 250, ECN 253)
- 342 Economic Development of the United States. 3 hrs. II.**  
History of the economy; political-economic determinants of growth patterns; the evolution of corporations, unions, and other institutions. (PR: ECN 250, ECN 253)
- 405 Environmental Economics. 3 hrs.**  
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. (PR: ECN 250)
- 408 Comparative Economic Systems. 3 hrs. I.**  
Marxism, capitalism, communism, fascism and socialism considered as theories, movements and actual political economies. (PR: ECN 250)
- 415 Regional Economics. 3 hrs.**  
A study of location theory and regional development within a framework of economic theory. (PR: ECN 200 or 250 and 253)
- 420 International Trade. 3 hrs. II.**  
An introduction to the basic microeconomic models explaining the reasons for and the effects of trade among nations, trade restrictions, and regional trading arrangements. (PR: ECN 250, ECN 253)
- 423 Introduction to Econometrics. 3 hrs. II.**  
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. (PR: ECN 250, ECN 253, MGT 218, MTH 203)
- 430 Forensic Economics. 3 hrs.**  
To provide business students with “real world” applications in the estimation of economic damages for federal and state litigation. It is also designed to prepare students for jobs. (CR/PR: ECN 253)
- 440 History of Economic Thought. 3 hrs. I.**  
Economic theories and ideas from the earliest economists to those of Marshall and Keynes. Focus is on the Mercantilist, Classical, Marxian, Neoclassical and Keynesian economists. (PR: ECN 200 or 250, ECN 253)
- 441 Contemporary Economic Thought. 3 hrs.**  
A survey of 20th century economic thought that includes traditional, institutional, Keynesian and Marxian theory. (PR: ECN 200 or 250 and ECN 253)
- 456 Labor Economics. 3 hrs.**  
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. (PR: ECN 200 or 250)
- 460 Economics of Developing Countries. 3 hrs. I.**  
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. (PR: ECN 250, ECN 253)
- 466 Economics Workshop. 3 hrs. II.**  
Capstone Experience. Emphasis on learning economics through applied research, writing, and oral presentations of student work. (PR: ECN 326 and ECN 328)
- 475 Economics of Education. 3 hrs.**  
The educational system is analyzed through the use of microeconomics. Economic variables related to student achievement and school performance will be examined. Suggested reforms are reviewed. (PR: ECN 250)
- 480-483 Special Topics. 1-4; 1-4; 1-4; 1-4 hrs.**  
Members of the department may teach, when necessary, any economics subject not listed among the current course offerings.
- 485-488 Independent Study. 1-4; 1-4; 1-4; 1-4 hrs.**  
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.
- 490 Internship. 3-12 hrs. (CR/NC)**  
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. (PR: Permission of Dean)

## EDUCATIONAL FOUNDATIONS (EDF)

- 218 Child and Adolescent Development in Schools. 3 hrs.**  
A basic course in the study of children's emotional, social, mental, and physical development. Field experience required. (PR: Sophomore standing, CR: 270)
- 270-272 Level I Clinical Experience. (Corequisite with Educational Foundations 218; no credit hours)**  
A public school Clinical Experience in elementary, secondary and middle schools. An opportunity to work with faculty, staff and students in a teaching/learning environment. (CR: EDF 218)
- 280-283 Special Topics. 1-4 hrs.**
- 319 Applications of Learning Theory. 3 hrs.**  
A study of the psychological principles which are the foundation for learning and teaching. (PR: ATED 4)
- 402 Psychology of the Middle Childhood Student. 3 hrs.**  
Study of developmental principles relating to the physical, cognitive, social and moral development of the middle childhood student (10-14 years old).
- 406 Foundations of Education. 3 hrs. I, II, S.**  
A survey of the historical, philosophical and sociological foundations of American education with emphasis upon current educational problems and issues. (PR: Junior standing)
- 415 History of Modern Education. 3 hrs.**  
Our debt to the ancient Hebrews, Greeks, and Romans. Emphasis also is placed upon the movements since the beginning of the Renaissance. (PR: Junior standing)
- 417 Statistical Methods. 3 hrs.**  
A foundation course in descriptive and inferential statistics as applied in education and the social sciences. (PR: Junior standing)

- 435 Classroom Assessment. 3 hrs.**  
History, philosophy and elementary statistical methods for testing, measuring and evaluating pupil behavior are studied. (PR: Junior standing)
- 475 Schools in a Diverse Society. 3 hrs.**  
Study of social, historical and philosophical foundations of U.S. schooling. Provides a basis for examining and critiquing student teaching experiences. Contributes to capstone experience. (PR: ATED 4)
- 480-483 Special Topics. 1-4 hrs.**
- 485-488 Independent Study. 1-4 hrs.**
- 495H-496H Readings for Honors in Foundations of Education. 1-3; 1-3 hrs.**

## ENGINEERING (ENGR)

### See also CIVIL ENGINEERING (CE) AREA OF EMPHASIS

- 102 Introduction to CAD. 1 hr.**  
An introduction to scales, plan reading, engineering graphics and computer aided design. Introduction to the operation of modern CAD software. (PR: MTH 132; pre-engineering or engineering major)
- 103 Freshman Engineering Seminar. 1 hr.**  
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. (PR: Engineering major)
- 104 The Engineering Profession. 1 hr.**  
Introduction to the engineering profession and engineering disciplines; introduction to the engineering design process and team projects. (PR: ACT 24 or SAT 560; concurrent PR: MTH 132 or CR: MTH 229 or MTH 229H; engineering major)
- 111 Engineering Computations. 3 hrs. II.**  
Introduction to effective problem-solving techniques used in various engineering applications with an emphasis on accuracy. Computational tools including calculators, spreadsheets, and a computational environment such as MATLAB will be covered. (PR: Math ACT 24 or SAT Math 560; or concurrent PR: MTH 132; or CR MTH229 or 229H; engineering major)
- 201 Circuits I. 4 hrs. I.**  
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. 3 lec-3 lab. (PR: MTH 229)
- 202 Circuits II. 4 hrs. II.**  
Transient response of first- and second-order systems. Balanced three-phase systems. Mutual inductance, transformers, resonance, and two-port networks. Computer Applications. 3 lec-3 lab. (PR ENGR 201 and MTH 230)
- 204 Introduction to Digital Systems. 4 hrs. II.**  
Number systems, digital components and systems; Boolean switching algebra; the analysis and design of combinational and sequential circuits; introduction to computer architecture. Laboratory exercises to reinforce lecture topics. 3 lec. - 2 lab. (PR: ENGR 201; CS 120, or consent)
- 213 Statics. 3 hrs. I.**  
Particle and rigid body mechanics for static force systems. 3 lec. (PR: MTH 229)
- 214 Dynamics. 3 hrs. II.**  
Laws of motion, work and energy, impulse and momentum, relative motion. 3 lec. (PR: ENGR 213 and MTH 230)
- 215 Engineering Materials. 3 hrs. I.**  
Properties and testing of engineering materials. Computer applications. 2 lec-3 lab. (CR: ENGR 213)
- 216 Mechanics of Deformable Bodies. 3 hrs. II.**  
Strength of materials, shear and moment diagrams, stresses in shafts, beams and columns; combined stresses, deflections; computer applications. (PR: ENGR 213 and MTH 230)
- 219 Engineering Thermodynamics. 3 hrs. II.**  
Fundamental concepts of energy analysis; thermodynamic models; First Law and introduction Second Law of thermodynamics; pressure, temperature, volume relationships; enthalpy and entropy. 3 lec-3 lab. (PR: MTH 230)
- 221 Engineering Economy. 3 hrs. I, II.**  
Economic selection of machines, structures, and processes. Computer applications. (PR: MTH 127, or MTH 130, or MTH 132 or MTH 229; CITE majors only)
- 290 Internship in Engineering. 1-4 hrs. CR/NC.**  
Supervised off-campus activities which provide professional experience in different fields of engineering. (PR: Permission)
- 318 Fluid Mechanics. 4 hrs. I.**  
Principles of hydrostatics and hydrodynamics; computer applications. 3 lec. - 3 lab (CR: ENGR 214 and MTH 231)
- 451 Introduction to Project Management. 3 hrs. I, II.**  
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. (CR: ENGR 452, PR: ENGR 221)
- 452 Senior Engineering Seminar. 1 hr. I.**  
Prepares students for engineering practice by focusing on licensure, ethics, and professional responsibility via presentations by practicing engineers. Preparation for senior design project. (PR: Senior standing in Engineering)
- 453 Senior Design Projects. 3 hrs. II.**  
Principles of management, contracts, specifications, cost analysis; critical path method as applied to engineering projects; completion of a comprehensive, multi-disciplinary engineering design project. (PR: Senior standing in engineering)
- 480-483 Special Topics. 1-4 hrs.**
- 485-488 Independent Study. 1-4 hrs.**

## ENGLISH (ENG)

Advanced placement in English is granted on the basis of the Educational Testing Service (ETS) Advanced Placement Test scores. See section entitled "Advanced Placement" of this catalog for details. Students with ACT verbal scores of 34 or better (760 SAT verbal) should notify the Coordinator of Composition ([kelli.prejean@marshall.edu](mailto:kelli.prejean@marshall.edu)), who will then arrange for credit in ENG 101-201 to be assigned to the students' records. Students with ACT verbal scores of 28-33 (630 SAT verbal) should enroll in ENG 201H. Students with ACT verbal scores of 18-27 (450 SAT verbal) should enroll in ENG 101. Students who score 17 or below on the ACT verbal (or below 450 SAT verbal), must take ENG 099. Honors College students should enroll in ENG 200H.

- 099 Introduction to Composition I. 3 hrs.**  
Introduction to college-level writing with emphasis on writing standard English with effective sentence and paragraph construction. (PR: ACT Verbal 17 or below)
- 101 English Composition I. 3 hrs.**  
Introduction to academic writing with emphasis on writing as a multi-stage process, critical thinking, and fundamental research strategies and skills. (PR: ACT English 18-27 [450 on the SAT])



- 150 Academic Listening and Speaking. 3 hrs.**  
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. (PR: Acceptance to INTO-Marshall Pathways program)
- 151 Academic Reading. 3 hrs.**  
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. (PR: Acceptance to INTO-Marshall Pathways program)
- 160 Academic English and Composition. 6 hrs.**  
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.
- 200 Texting the World (CT). 3 hrs.**  
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.
- 200H Texting the World - Honors (CT). 3 hrs.**  
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. (PR: Honors College status)
- 201 Advanced Composition. 3 hrs.**  
An advanced composition course centered on critical reading, writing, and research skills for the disciplines. (PR: ENG 101 with a grade of C or better)
- 201H English Composition Honors. 3 hrs.**  
An accelerated course in English composition. Completion of 201H with a grade of C or better satisfies the University requirement in composition. Students completing the course with a grade of C or better are awarded three additional hours of credit toward graduation. (PR: ACT Verbal 28-33 [SAT 630])
- 203 Appalachian Literature. 3 hrs.**  
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)
- 204 Writing for the Workplace. 3 hrs.**  
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)
- 205 Popular Literature (CT). 3 hrs.**  
The study of popular literature in its cultural contexts.
- 206 Good Plays. 3 hrs.**  
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)
- 209 Literature of Fantasy. 3 hrs.**  
Study of different forms, conventions, and styles in fantastic literature, such as in legend, fairy tale, horror story, heroic fantasy, nonsense, and romance. (PR: Completion of Core II composition requirement)
- 210 Autobiography. 3 hrs.**  
Study of select autobiographies and memoirs from a variety of literary traditions. (PR: Completion of Core II composition requirement))
- 211 Science Fiction. 3 hrs.**  
Study of science fiction in its background, themes, types, analyses, and appreciation. (PR: Completion of Core II composition requirement)
- 212 Sports Literature. 3 hrs.**  
Study of sports literature of different genres, including fiction, poetry, drama, and biography. (PR: Completion of Core II composition requirement)
- 213 Good Poems. 3 hrs.**  
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)
- 215 Good Novels. 3 hrs.**  
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)
- 220 The Political Novel. 3 hrs.**  
Studies in English and American novels relating significantly to political themes. (PR: Completion of Core II composition requirement)
- 225 Southern Writers. 3 hrs.**  
The study of selected writers of the American South from the beginnings to the present with special attention on writers after 1920. (PR: Completion of Core II composition requirement)
- 231 Good Stories. 3 hrs.**  
Criticism and analysis of representative short stories, primarily British and American. (PR: Completion of Core II composition requirement)
- 235 Crime and Sensation Literature. 3 hrs.**  
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)
- 236 Forbidden Literature. 3 hrs.**  
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)
- 240 African American Literatures. 3 hrs.**  
Examination of the tradition in African American literatures through close reading. (PR: Completion of Core II composition requirement)
- 241 Ethnic Literatures. 3 hrs.**  
Study of texts from diverse ethnic groups in cultural and historical context. (PR: Completion of Core II composition requirement)
- 242 Women Writers. 3 hrs.**  
A study of women writers in cultural contexts. Surveys attitudes toward women, women writers, and their work. (PR: Completion of Core II composition requirement)
- 280-283 Special Topics. 1-4 hrs.**
- 344 Film and Fiction. 3 hrs.**  
The relationship between literature and cinema: analysis of literary masterpieces and the films derived from them. (PR: Completion of Core II composition requirement)
- 350 Literary Studies for English Majors. 3 hrs.**  
An introductory-level examination of a range of literary texts. Develops the English majors' explication, critical reading, and research skills. Taken within first 9 hours of coursework with the major. (PR: Completion of Core II composition requirement and declaration of English major)
- 354 Scientific and Technical Writing. 3 hrs.**  
Types and styles of written reports required in science, government, industry, and medicine. Practical applications adapted to the needs of the individual student. (PR: Completion of Core II composition requirement)



- 355 Introduction to Critical Theory. 3 hrs.**  
An examination of the principles and methods of a range of major critical theories, emphasizing how their application affects textual interpretation. (PR: ENG 350)
- 360 Introduction to Creative Writing. 3 hrs.**  
An introduction to writing of fiction and poetry. (PR: Completion of Core II composition requirement)
- 377 Creative Writing: Poetry. 3 hrs.**  
Practice in writing poetry. (PR: ENG 360 or permission of instructor)
- 378 Creative Writing: Fiction. 3 hrs.**  
Practice in writing fiction. (PR: ENG 360 or permission of instructor)
- 379 Creative Writing: Nonfiction. 3 hrs.**  
Practice in writing creative nonfiction. (PR: ENG 360 or permission of instructor)
- 402 Pre-Professional Composition and Rhetoric. 3 hrs.**  
Study of rhetorical invention and models of the composing process, with intensive practice in writing. (PR: ENG 350 and ADMI 4 status)
- 405 History of the English Language. 3 hrs.**  
The phonology, spelling, grammar, syntax, and vocabulary of previous language periods as background to Modern English. (PR: ENG 350 or permission of chair)
- 408 Advanced Expository Writing. 3 hrs.**  
Development and refinement of writing skills—description, organization, and style—with an emphasis on informative and explanatory genres. . (PR: Completion of Core II composition requirement)
- 409 Milton. 3 hrs.**  
Biographical and critical study, including Milton's English poetry and prose, and his literary and intellectual milieu. (PR: ENG 350 or permission of chair)
- 410 Shakespeare's Comedies, Tragicomedies, and Romances. 3 hrs.**  
Intensive study of Shakespeare's comedies, tragicomedies, and late romances. Also includes the Sonnets and *Venus and Adonis*. (PR: ENG 350 or permission of chair)
- 411 Chaucer. 3 hrs.**  
The poetry of Chaucer, chiefly the *Canterbury Tales*, in the light of medieval tradition and critical analysis. (PR: ENG 350 or permission of chair)
- 412 Shakespeare's Histories and Tragedies. 3 hrs.**  
Intensive study of Shakespeare's histories and tragedies. (PR: ENG 350 or permission of chair)
- 414 Nineteenth-Century British Novel. 3 hrs.**  
Austen, Scott, the Brontës, Gaskell, Dickens, Hardy, Schreiner, and others. (PR: ENG 350 or permission of chair)
- 415 Victorian Poetry. 3 hrs.**  
Tennyson, Browning, Arnold and others. (PR: ENG 350 or permission of chair)
- 419 Approaches to Teaching Literature. 3 hrs.**  
The intensive study of the pedagogy of literature and literary critical theory and its classroom applications. (PR: ENG 350, ADMI 4 status, and ENG 410 or 412)
- 420 Senior Seminar in Literature. 3 hrs.**  
An intensive examination of topics relevant to advanced literary studies. Provides capstone experience through reflection upon and revision of previous English coursework. . (PR: Completion of 12 hours of ENG courses at 400 level with grade of C or better)
- 421 American Literature to 1830. 3 hrs.**  
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: ENG 350 or permission of chair)
- 422 American Literature, 1830-1865. 3 hrs.**  
American literature of the Romantic period, including such authors as Emerson, Douglass, Poe, Melville, Hawthorne, Whitman, Dickinson, and lesser figures of the period. (PR: ENG 350 or permission of chair)
- 423 American Literature, 1865-1914. 3 hrs.**  
American literature of the Realistic and Naturalistic periods, including such authors as Howells, Crane, Twain, James, Chopin, Dreiser, Chesnutt, and Wharton. (PR: ENG 350 or permission of chair)
- 424 American Literature after 1914. 3 hrs.**  
American literature after 1914, including such authors as Faulkner, Hemingway, Cather, Carver, Vonnegut, Morrison, and others. (PR: ENG 350 or permission of chair)
- 428 International Literature. 3 hrs.**  
Readings in contemporary literature from the non-Anglo-European world. Texts will be taken from Asian, African, South American, Australian, and other authors. (PR: ENG 350 or permission of chair)
- 432 Contemporary Literature. 3 hrs.**  
Examines literature of the present, its influences, and the increasing diversification of cultural/textual production, including cinema, video, comix/manga, videogames, and blogs. (PR: ENG 350 or permission of chair)
- 433 Twentieth Century British and Irish Poetry. 3 hrs.**  
Principal poetry since the Victorian period. (PR: Any 300-level ENG except 302)
- 434 Twentieth Century American Poetry. 3 hrs.**  
Principal poetry since 1900. (PR: ENG 350 or permission of chair)
- 435 Modernism. 3 hrs.**  
Examines literary modernism and the artistic, cultural, and historical contexts of that movement. (PR: ENG 350 or permission of chair)
- 436 Medieval British Literature. 3 hrs.**  
Old English elegiac and heroic poetry; Middle English lyrics and romances; the Ricardian and Malory. (PR: ENG 350 or permission of chair)
- 437 Tudor Literature: Poetry and Prose of the 16th Century. 3 hrs.**  
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: ENG 350 or permission of chair)
- 438 17th Century Literature: Poetry and Prose. 3 hrs.**  
Survey includes Donne and the Metaphysical poets, the Cavalier lyricists, Bacon, Browne, Lady Mary Wroth, Herbert, Jonson, Amelia Lanyer, Burton, Walton, Hobbes, and Bunyan. (PR: ENG 350 or permission of chair)
- 447 British Romantic Poets. 3 hrs.**  
Emphasis on Blake, Wordsworth, Coleridge, Byron, Shelley, and Keats. (PR: Any 200-level literature course or ENG 350)
- 450 Western World Literature to the Renaissance. 3 hrs.**  
Major works (excluding English), with emphasis on Homer, the Greek Drama, Virgil, Dante, and Cervantes. (PR: ENG 350 or permission of chair)
- 451 Western World Literature since the Renaissance. 3 hrs.**  
Major works (excluding English and American), with emphasis on Racine, Moliere, Goethe and principal continental fiction. (PR: ENG 350 or permission of chair)

- 455 Literary Criticism. 3 hrs.**  
Historical study, with application of principles. (PR: ENG 350 or permission of chair)
- 458 Form and Theory of Creative Writing. 3 hrs.**  
Readings in creative writing illustrating formal and theoretical concerns. Readings will also be applied to student writing. (PR: ENG 350 or permission of chair)
- 460 Composition and Writing Center Theory. 3 hrs.**  
Introduces students to the study of teaching writing in a classroom setting and in one-to-one tutoring. (PR: ENG 350 or permission of chair)
- 466 Literacy Studies. 3 hrs.**  
Theories of writing and reading development with a focus on cultural, linguistic, and rhetorical influences on literacy acquisition. (PR: Completion of Core II composition requirement)
- 467 Visual Rhetoric. 3 hrs.**  
Study of the production, strategies, reception, and persuasive effects of visual texts. (PR: Completion of Core II composition requirement)
- 469 Teaching Creative Writing. 3 hrs.**  
Pedagogy and practice for students who plan to teach Creative Writing at the primary, secondary, or college level. (PR: ENG 350 and ENG 360)
- 475 Introduction to Linguistics. 3 hrs.**  
The structural and descriptive approach to study of the English language. (PR: Completion of Core II composition requirement)
- 476 Structures of the English Language. 3 hrs.**  
Study of the structures of English grammar, including how these structures relate to punctuation, language acquisition, dialect variation, and the history of English.
- 478 Language, Society, and Self: An Introduction to Sociolinguistics. 3 hrs.**  
Sociolinguistics is the study of the effects of language in society, relevant to discourse practices, language attitudes, variations, shifts, and changes. (PR: Completion of Core II composition requirement)
- 480-483 Special Topics. 1-3 hrs. each.**  
(PR: ENG 350 or permission of chair)
- 485-488 Independent Study. 1-4 hrs. each.**  
(PR: ENG 350 or permission of chair)
- 490 Internship in English. 3 hrs.**  
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. (PR: Any 200-level literature course or ENG 350)
- 491 Creative Writing: Poetry Workshop. 3 hrs.**  
A practical and intensive class in exploring the varieties of creative expression; exercises on the creating of verse in different forms and styles. (PR: ENG 377 or permission of the instructor)
- 492 Creative Writing: Fiction Workshop. 3 hrs.**  
Offers students a forum for presentation, discussion, and refinement of their work, either short stories or novels. (PR: ENG 378 or permission of the instructor)
- 493 Creative Writing: Nonfiction Workshop. 3 hrs.**  
A writing workshop where students develop and refine their original creative nonfiction (memoir, biography, essays, travel/leisurewriting, etc.), employing techniques typically reserved for fiction (dialogue, narrative, poetic language, etc.). (PR: ENG 379 or permission of the instructor)

## EXERCISE SCIENCE AND SPORT (ESS)

- 118 Development of Physical Education and Sport in the United States. 3 hrs. I, II.**  
A survey of the development of sport forms and physical education curricula from colonial America through the present day.
- 210 Practicum in Exercise Science. 4-5 hours.**  
The purpose is to provide a practical introduction to various emphases in exercise science. (PR: Permission Only)
- 211 Physiology of Fitness. 3 hrs. I, II.**  
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. (PR: HS 201)
- 218 Sports in Society (CT). 3 hrs. I, II.**  
A study of the possible interrelationship between physical activity and various sociocultural factors.
- 220 Fitness and Wellness. 3 hrs.**  
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.
- 250 Introduction to Sport Management. 3 hrs.**  
The student will gain knowledge in sport management with multiple emphases including professional, collegiate, and recreational sports.
- 270 Sport Tourism. 3 hrs.**  
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.
- 290 Practicum in Sport Management and Marketing. 1-3 hrs. II.**  
A minimum of 150 hours in the athletic department and classroom setting emphasizing a variety of work experiences and exploration of vocational opportunities in Sport Management and Marketing.
- 295 Adult Fitness Programs in Business and Industry. 2 hrs. I.**  
Basic course dealing with adult fitness programs in business and industry. Consideration will be given to types of programs and professional opportunities.
- 301 Philosophy of Sport and Physical Activity. 3 hrs.**  
Development of philosophic reasoning skills to better understand the role that philosophy plays in our understanding and conception of physical activity.
- 305 Health and Physical Education in Early Childhood Programs. 3 hrs.**  
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.
- 310 Teaching Individual Sports. 2 hrs. I.**  
Study and application of the principles and techniques of teaching individual sports skills in grade 5-12. (PR: Completion of Physical Education Activity Competencies)
- 311 Teaching Team Sports. 2 hrs. II.**  
Study and application of the principles and techniques of teaching team sports skills in grades 5-12. (PR: Completion of Physical Education Activity Competencies)
- 314 Physical Education in Elementary Schools. 3 hrs. I, II, S.**  
A practical approach designed to aid the elementary teacher in teaching methods and techniques needed for the teaching of elementary physical education. (PR: Majors, ESS 350)

- 345 Exercise Physiology. 3 hrs. I, II.**  
Focuses on physiological and functional alterations in response to acute and chronic exercise with emphasis on metabolic, neuroendocrine, neuromuscular, cardiopulmonary, and environmental adaptations. (PR: BSC 228)
- 350 Rhythms and Movement for Children. 3 hrs. II.**  
Provides elementary physical education specialist with an overview of rhythms and movement activities for elementary school children.
- 365 Tests and Measurements. 3 hrs. II.**  
A study of the nature and purpose of measurements and evaluation in the field of physical education. Evaluation of available tests and practice in administration of tests.
- 375 Fitness Assessment and Exercise Prescription. 3 hrs. II.**  
Focuses on the processes and procedures of physical fitness evaluation and prescription. Emphasis is placed on the design of individual and group exercise programs. (PR: ESS 345)
- 380 Sport Marketing. 3 hrs.**  
A study of the application of marketing concepts to the sport industry. (PR: MKT 340)
- 381 Sport Finance/Economics. 3 hrs.**  
In this course, students will be introduced to current economic and financial issues confronting managers in the sport industry.
- 385 Development and Management of Adult Fitness Programs. 3 hrs. I.**  
Considers organizational structures, record keeping, budgeting, and liability factors. (PR: ESS 345, 375)
- 386 Adult Fitness. 3 hrs.**  
Discuss health risk appraisal and exercise benefits of commonly seen pathophysiology among U.S. adults. (PR: ESS 345)
- 390 Sport Management Pre-Internship Experience. 3 hrs.**  
A minimum of 90 hours in the sport and leisure industry setting emphasizing a variety of work experiences and internship application skills in Sport Management. (PR: ESS 290)
- 401 Ethics In Sport. 3 hrs.**  
Philosophical and historical background to the development of values in contemporary society and examination of how these are manifested in the sports world.
- 410 Principles, Organization and Administration of Physical Education and Athletics. 3 hrs. I.**  
Principles of health and physical education, procedures in the organization and administration of the physical education program, including purchase, care and use of equipment.
- 416 Planning and Developing HPERD and Athletics Facilities. 3 hrs.**  
A course designed to familiarize students with the basic concepts of facility planning and construction. Current trends and innovative designs are reviewed. 2 lec-2 lab.
- 418 Ancient and Medieval Sport History. 3 hrs.**  
An in depth investigation of the role of sport in ancient & medieval societies. Course focuses on ancient Greece, Rome, and medieval Europe, but will also briefly cover non-Western cultures.
- 425 Sport in Film. 3 hrs.**  
The relationship between sport and feature motion pictures are analyzed in the historical, social and cultural contexts. (PR: Junior or senior standing)
- 430 Sport Law. 3 hrs.**  
Study of the basic principles of the legal system as they operate in the environment of American sport. (PR: Junior or Senior standing)
- 435 Adapted Physical Education and Mainstreaming. 3 hrs.**  
Theory of remedial exercise and individualizing of physical activities to meet the needs of the physically handicapped. (PR: HS 201)
- 440 Women in Sport. 3 hrs.**  
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.
- 442 Principles of Strength and Conditioning. 3 hrs.**  
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. (PR: HS 365)
- 443 Principles of Strength and Conditioning Laboratory. 1 hr.**  
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. (CR: ESS 442; PR: ESS 321, 345)
- 444 Cardiovascular Exercise Physiology. 3 hrs.**  
Detailed study of the anatomy and physiology of the cardiovascular systems and its response to acute and chronic exercise. (PR: ESS 345, 346 and HS 200)
- 445 Respiratory Exercise Physiology. 3 hrs.**  
Detailed study of the anatomy and physiology of the respiratory system and its response to acute and chronic exercise. (PR: ESS 444)
- 446 Neuromuscular Exercise Physiology/Plasticity. 3 hrs.**  
This course is a detailed study of the structure and function of the neuromuscular system along with the etiology and functional consequences of numerous neuromuscular diseases. (PR: ESS 345, 346 and HS 200)
- 447 Advanced Exercise Physiology. 3 hrs.**  
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. (PR: ESS 345 AND ESS 346)
- 450 Sport Agent. 3 hrs.**  
This course focuses on the understanding of the sports agent industry and structure.
- 458 Sales and Promotion Management in Sport and Leisure Industry. 3 hrs.**  
A study of sales and promotion management in the sport and leisure industry.
- 469 Curriculum Development in Physical Education. 3 hrs.**  
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)
- 475 Seminar in Sport Management and Marketing. 3 hrs. II.**  
Course is designed to provide students with an overview to all aspects involved in the Sport Management and Marketing field through classroom lectures, guest speakers, and field trips. (PR: Junior standing in School of Kinesiology)
- 476 Theoretical and Practical Aspects of Coaching. 3 hrs.**  
An in-depth study of the principles and problems of coaching.
- 478 Energy Sources, Body Composition and Performance. 3 hrs.**  
Consideration of metabolic requirements for various types of physical activity as well as the impact that physical activity and training can have on body composition and performance. (PR: PE 345)
- 480-483 Special Topics. 1-4; 1-4; 1-4; 1-4 hrs.**  
(PR: HPER majors only, with permission of Division chairperson)

- 485-488 Independent Study. 1-4; 1-4; 1-4; 1-4 hrs.**  
**490 Internship in Sport Management. 3-8 hrs.**  
 (PR: Senior standing and ESS 290)  
**491 Internship in Exercise Science. 1-12 hrs.**  
 Field internship experience. (PR: ESS 385 and 478)  
**495H-496H Readings for Honors in Physical Education and Sport. 1-3; 1-3 hrs.**

## **FAMILY AND CONSUMER SCIENCES (FCS)**

- 110 Food Selection and Preparation. 3 hrs.**  
 Principles of food selection, preparation, and preservation.
- 112 Clothing Construction. 3 hrs.**  
 Basic principles of clothing construction.
- 160 Overview of the Fashion Industry. 3 hrs.**  
 Fashion theories and cycles are studied in relation to the textile and apparel industries. Fashion designers, international and national fashion markets, raw materials, fashion production, distribution and selling are analyzed.
- 201 Family and Consumer Sciences Profession. 1 hr.**  
 Overview of the Family and Consumer Sciences profession, its specialties, and the career path in Family Consumer Sciences. Focus is on professional growth and integration of specialties with a family focus.
- 203 Mealtime in the USA. 3 hrs.**  
 Fundamental principles in planning, preparing, and serving nutritionally adequate meals for individuals and families with today's lifestyles. Emphasis on effective and efficient use of resources. (PR: FCS 110 or 202)
- 212 Textiles. 3 hrs.**  
 Natural and man-made textile fibers, methods of fabrication, and finishes as related to the selection, use and care of clothing and household textiles.
- 213 Advanced Clothing Construction. 3 hrs.**  
 Experiments in construction techniques, fabrics and design compatibility. (PR: FCS 112 or an acceptable score on clothing construction pretest)
- 240 Pattern Making and Apparel Production. 3 hrs.**  
 An introduction to flat pattern design techniques using computer aided design, coordination of fabric with design, selection of support materials, and basic understanding of garment assembly operations. Co-requisite(s)/Prerequisite(s): None.
- 280-283 Special Topics. 1-4 hrs.**
- 306 Foundations of Professional Practice. 1 or 3 hrs.**  
 Role, objectives, ethics, communication strategies and practices for leading and educating families and consumers.
- 311 Advanced Apparel Pattern Making. 3 hrs.**  
 Experiment with methods of pattern making including draping using computer-aided design (CAD) software. Focus on analysis of fit and problem solving. (PR: FCS 240)
- 314 Dress and Culture. 3 hrs.**  
 Examination of meanings and functions of dress in complex social contexts, with particular reference to cross-cultural, historical, and contemporary settings. (PR: FCS majors only; others by permission)
- 349 Apparel Product Quality Analysis. 3 hrs.**  
 Principles of textile product evaluation and quality analysis in relation to end use. Developing specifications and using standard practices for evaluating materials, product characteristics, and performance. (PR: FCS 112)
- 350 Administration of Child and Family Services. 3 hrs.**  
 Basic knowledge, theory, and research are explored for family based services. Administrative topics are presented for these non-profit settings.
- 351 Housing the Family. 3 hrs.**  
 Housing as a process and product that meets individual, family, and community needs, and application of design fundamentals to make the best functional and aesthetic use of space.
- 354 Home Furnishings. 3 hrs.**  
 Application of art elements and principles of design in selection, arrangement and use of furnishings and interiors of homes.
- 358 Family Resource Management. 3 hrs.**  
 Identification of management concepts with emphasis on principles and interrelationships within framework of the family.
- 359 Merchandising: Processes and Procedures. 3 hrs.**  
 This course encompasses costing, markup, pricing, inventory, merchandise planning and control, direct and indirect cost. (PR: MTH 121 or higher)
- 363 Meal Preparation and Planning. 3 hrs.**  
 Meal planning, food safety, food selection, purchasing, and meal preparation to meet nutritional needs of individuals and families. Examine healthy eating patterns and legislation affecting food buying practices.
- 379 Aesthetics for Living. 3 hrs.**  
 Application of elements and principles of design, aesthetic concepts, theories, and philosophies in everyday living, including products, the home environment, and promotional commercial displays.
- 401 Maternal and Child Nutrition. 3 hrs.**  
 Nutritional requirements during prenatal and early growth periods; surveys of nutritional status. (PR: FCS 210)
- 402 Foods of the World. 3 hrs.**  
 Characteristics and cultural aspects of the foods of the world.
- 405 Quantity Food Production. 3 hrs.**  
 Basic principles of quantity food selection, preparation and service. Laboratory application in local food institutions. (PR: FCS 203 or consent of instructor)
- 406 The Vocational FCS Program. 3 hrs.**  
 Vocational FCS at the secondary, post secondary and adult levels with emphasis on types and organization of programs, legislation, and groups served. (PR: CI 415)
- 407 Food Service Systems Management. 3 hrs.**  
 Administration of food service in institutions. (PR: MGT 320 and FCS 203)
- 410 Nutrition in Aging. 3 hrs.**  
 Nutritional needs of the elderly and diseases responding to nutritional therapy. Government food programs for the elderly. (PR: FCS 210)
- 414 Problems in Fashion Merchandising. 3 hrs.**  
 This course uses case studies and experiences of students to orient them to problem-solving in the areas related to retailing. (PR: FCS 160, 314 and 359)
- 417 Evolution of Fashion. 3 hrs.**  
 Fashion from Ancient Egypt to the present day. Includes influences of social, political and economic conditions on fashion as it has evolved. (PR: ART 112)

- 432 Parenting. 3 hrs.**  
Examination of current challenges, problems, and issues in the field; analysis of effective strategies for parenting.
- 440 Nutrition for Home and School. 3 hrs.**  
Fundamental principles of human nutrition and their application in the home and school. Focus is on children preschool through adolescent.
- 444 Consumer Education. 2-3 hrs.**  
Analysis of economic factors related to provision of consumer goods and services, investigations of sources of consumer information, and means of providing economic security for families.
- 459 Fashion Buying. 3 hrs.**  
Organization of retail firms, procurement of merchandise for different types of stores, planning and managing the merchandise assortment, the buyer's responsibilities in marketing, selling, promotion. Human resources are analyzed. (PR: FCS 160, 359, and 471)
- 460-463 Staff Development. 1-4 hrs.**  
Courses and activities designed to meet specific inservice needs of public school personnel. Credit may be used for certificate renewal and salary upgrading, if approved, but not in degree programs. CR/NC grading.
- 465 Child and Family Programs. 3 hrs.**  
Theoretical and practical aspects of planning programs to influence the development of effective interventions for promoting the well-being of children and youth in the context of the family.
- 471 Family Consumer Sciences Practicum. 3 hrs.**  
Involves application of coursework—processes, theories, systems—at the junior level—in the functional flow of an operation related to the student's area of study. (PR: 15 hours of FCS coursework and permission from major advisor/program director)
- 480-483 Special Topics. 1-4 hrs.**  
Independent study in a selected area of Family Consumer Sciences. May not be used to replace any listed course.
- 485-488 Independent Study. 1-4 hrs.**
- 491-494 Workshop. 2-3 hrs.**  
Workshop in selected areas of Family Consumer Sciences. Usually, credit for not more than two workshops may be applied toward the degree. (PR: Senior standing)
- 495H-496H Readings for Honors in Family Consumer Sciences. 1-3; 1-3 hrs.**

## FINANCE (FIN)

- 201 Personal Finance. 3 hrs.**  
To assist the consumer in management of personal financial affairs. Topics are consumerism, insurance, savings instruments, banking, personal expenditures and budgeting, personal taxes, house buying, introduction to investments, and estate planning.
- 280 Special Topics. 1-4 hrs.**
- 321 Principles of Risk Management and Insurance. 3 hrs.**  
Fundamental concepts and principles of risk; techniques used to manage pure risks, and the role of insurance and the insurance mechanism in handling the exposure of individuals and businesses.
- 323 Principles of Finance. 3 hrs. I, II.**  
Business finance from viewpoints of business manager; use of financial statements, tools, and concepts for measuring and planning for profitability and liquidity. (PR: MGT 218, ACC 215)
- 327 Life and Health Insurance. 3 hrs.**  
Legal facets of life, health, and annuity contracts; risk selection; programming, mathematics of life and health insurance; individual and business uses of life insurance; taxation; regulation of companies. (PR: FIN 321)
- 329 Property and Liability Insurance. 3 hrs.**  
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. (PR: FIN 321)
- 343 Intermediate Financial Management. 3 hrs. I, II.**  
Application of financial principles to corporate business problems. Computer analysis will be utilized where appropriate. (PR: FIN 323)
- 356 Financial Management of Health Care Organizations. 3 hrs. II.**  
Management of working capital, evaluation of financial data, capital budgeting, the capitalism process, and the study of third party reimbursement systems. (PR: FIN 323)
- 360 Commercial Banking. 3 hrs. I.**  
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." (PR: FIN 323)
- 370 Principles of Investment. 3 hrs. I, II.**  
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. (PR: FIN 323)
- 380 Entrepreneurial Finance. 3 hrs.**  
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.
- 405 Social Insurance and Employee Benefits. 3 hrs.**  
Coverages and limitations of social insurance; social security; workers compensation; unemployment insurance; Medicare; Medicaid; integration with private insurance and employee benefits; theory of group programs; pension plans. (PR: FIN 321)
- 410 Corporate Risk Management. 3 hrs.**  
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. Case Study. (PR: FIN 321)
- 425 Portfolio Analysis and Management. 3 hrs. II.**  
Analytical procedures for valuing various financial securities and techniques for the creation and maintenance of portfolios. (PR: FIN 370)
- 431 Futures and Options. 3 hrs.**  
To introduce options and futures, their market microstructure, their theoretical foundation pertaining to pricing and hedging with such contracts, and their uses. (PR: FIN 370)
- 440 International Financial Management. 3 hrs. I.**  
International financing techniques and the role of finance in multinational organizations. (PR: FIN 323)
- 451 Financial Planning Applications. 3 hrs.**  
This course includes client interactions, time value of money, personal financial statements, cash flow and debt management, asset acquisition, overview of risk management, investment planning, business ethics, and retirement planning. (PR: ECN 250, 253; ACC 216; MGT 218)
- 452 Investment Planning. 3 hrs.**  
This course provides the student with understanding of the various types of securities traded in financial markets, investment theory and practice, portfolio construction and management, and investment strategies and tactics. (PR: FIN 451)



- 454 Insurance Planning. 3 hrs.**  
This course introduces risk management and insurance decisions. Topics include insurance for life, health, disability, property and liability risks, as well as annuities, group insurance, and long term care. (PR: LE 207, FIN 451)
- 456 Income Tax Planning. 3 hrs.**  
This course focuses on principles and current law and practice of income taxation and its impact on financial planning for individuals, couples and families as investors, employees and business owners. (PR: FIN 451)
- 458 Estate Planning. 3 hrs.**  
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. (PR: FIN 451, 454, 456)
- 460 Retirement Planning. 3 hrs.**  
The retirement planning course is to provide individuals with knowledge of retirement plans such as Social Security, Medicare, Medicaid, defined benefit and defined contribution plans and their regulatory provisions. (PR: FIN 451)
- 470 Financial Policies and Strategies. 3 hrs. II.**  
Financial planning, working capital management, capital budgeting, divided policy and comprehensive problems. Capstone Experience. (PR: FIN 343)
- 475 International Business Strategies. 3 hrs.**  
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 the International Business major. (PR: FIN 323 and ECN 340)
- 480 Special Topics. 1-4 hrs.**  
Study of an advanced topic not normally covered in other courses. Finance majors only, with permission of department chairman.
- 485-488 Independent Study. 1-4; 1-4; 1-4; 1-4 hrs.**
- 490 Internship. 3-12 hrs. (CR/NC)**  
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. (PR: Permission of Division Head)

## FIRST YEAR STUDIES (FYS)

- 100 First Year Seminar in Critical Thinking. 3 hrs.**  
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.
- 100H First Year Seminar - Honors. 3 hrs.**  
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.

## FRENCH (FRN)

- 101-102 Elementary French. 3; 3 hrs. I, II.**  
Pronunciation, conversation, reading, and composition with emphasis on aural/oral development. (PR for 102: French 101 or equivalent with a C or better or permission)
- 112 Basic French. 3 hrs. I.**  
Emphasis on oral/written communication and on listening/reading comprehension. Students completing 112 with a C or higher receive 3 hours of credit (CR) for FRN 101 and 3 hours of graded credit for 112. For students who previously passed FRN 101, the 3 hours of credit for 101 WILL NOT COUNT toward graduation. (PR: two years or more of high school French or permission)
- 203 Intermediate French. 3 hrs. I, II.**  
Intermediate level of the basic language skills: pronunciation, conversation, reading, and composition with emphasis on aural/oral development. (PR: FRN 102 or equivalent with a C or better or permission)
- 204 Intermediate French. 3 hrs. I, II.**  
Development of practical conversational skills, reading for comprehension, and directed composition. (PR: FRN 203 or equivalent with a C or better or permission)
- 240 French Society and Life. 3 hrs. I or II.**  
Selected topics relating to culture and life in the French-speaking countries. Lectures, readings, and discussions in English.
- 280-283 Special Topics. 1-4; 1-4; 1-4; 1-4 hrs.**  
(PR: FRN 204 or permission)
- 304 French Literary Masterpieces in Translation. 3 hrs.**  
This course deals with major works of French literature and requires no background in French literary history. Course taught in English.
- 305-306 Introduction to French Composition and Conversation. 3 hrs.**  
Writing/speaking intensive course designed to develop communicative skills and review language fundamentals acquired in FRN 101-204 course sequence. Course taught in French. (PR: FRN 204 or permission)
- 315-316 Advanced Grammar and Composition. 3; 3 hrs.**  
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. (PR: FRN 204 or permission)
- 317-318 Survey of French Literature. 3; 3 hrs.**  
A study of important literary movements, representative authors and their works from the Middle Ages to present. (PR: FRN 305/306 or permission)
- 323-324 Advanced French Grammar and Oral Communication. 3 hrs.**  
Analysis of grammatical structures and introduction to phonetics. Oral and written exercises, presentations, and discussion. Course taught in French. (PR: FRN 204 or permission)
- 335-336 French Civilization and Culture. 3; 3 hrs.**  
French culture from prehistoric to modern times with emphasis on contemporary life and French institutions. Course taught in French. (PR: FRN 204 or permission)
- 401 Seventeenth Century French Theater. 3 hrs.**  
Study of representative plays by the classical dramatists Corneille, Moliere, and Racine. Course taught in French. (PR: FRN 305/306 or permission)
- 402 Eighteenth Century French Literature. 3 hrs.**  
Study of representative works by the philosophers, Montesquieu, Rousseau, Voltaire, and Diderot. Course taught in French. (PR: FRN 305/306 or permission)
- 403 Nineteenth Century French Novel. 3 hrs.**  
A study of major novels chosen to illustrate the romantic, realistic, and naturalistic literary movements. Course taught in French. (PR: FRN 305/306 or permission)



- 404 Twentieth Century French Novel. 3 hrs.**  
A study of representative 20th century French novels. Course taught in French. (PR: FRN 305/306 or permission)
- 407 Foreign Language Teaching Methodology. 3 hrs.**  
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. For French education majors only. (CR/PR: Permission of instructor; must be taken with appropriate College of Education clinical experience)
- 417-418 Contemporary French Film. 3 hrs.**  
Course on selected films by French directors of the New Wave and the Post New Wave period. Course taught in English.
- 480-483 Special Topics. 1-4; 1-4; 1-4; 1-4 hrs. I, II.**  
A course for advanced students sufficiently prepared to do work on aspects of the language, literature, or culture not covered in regularly offered courses. (PR: FRN 305/306 or permission)
- 485-488 Independent Study. 1-4; 1-4; 1-4; 1-4 hrs.**  
(PR: FRN 305/306 or permission)
- 495H-496H Readings for Honors in French. 2-4; 2-4 hrs. I, II.**  
Open only to French majors of outstanding ability. See Honors Courses.

## GEOGRAPHY (GEO)

- 100 Introduction to Human Geography (CT). 3 hrs. I, II.**  
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.
- 101 Physical Geography (CT). 4 hrs. I, II.**  
Systematic survey of earth-sun relationships, land-surface form, climate, soils, water, natural vegetation, and other natural content as a background for human geography.
- 110 Basic GIS. 1 hr.**  
Introduction to GIS concepts including GIS components, spatial and tabular data, database elements, data formats, and map design; hands-on experience with a GIS.
- 111 Air Photos and Satellite Imagery. 1 hr.**  
Introduction to photogrammetry and remote sensing through the hands-on investigation of aerial photographs and satellite imagery using the latest technology.
- 112 Introduction to Global Positioning Systems (GPS). 1 hr.**  
History and principles of GPS; use of GPS in the field; application of GPS to academic or professional fields.
- 203 Economic Geography (CT). 3 hrs. I, II, S.**  
A systematic examination of world economic geography with a focus on population, agriculture, transportation, land use, urbanization, industry, energy, and the environment.
- 206 Geography of West Virginia. 3 hrs.**  
A survey of the geography of West Virginia including landforms, climate, settlement patterns, population, economics, resources, politics, and environmental changes.
- 222 Global Environment Issues (CT). 3 hrs.**  
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.
- 230 Introduction to Meteorology (CT). 4 hrs.**  
Introduction to the composition of the atmosphere and weather phenomena, including thunderstorms, tornadoes, and hurricanes.
- 280-283 Special Topics. 1-4; 1-4; 1-4; 1-4 hrs.**
- 305 Geography of the United States and Canada. 3 hrs.**  
Survey of physical, historical, population, economic, political, cultural, and regional geographies of Canada and the United States. International issues involving Mexico also considered.
- 317 World Regional Geography. 3 hrs. I, II, S.**  
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.
- 350 Severe Local Weather and Natural Hazards. 4 hrs.**  
Basics of earth and atmospheric hazards including flooding, hurricanes, droughts, blizzards, tornadoes, and volcanic eruptions, and how to mitigate the impacts.
- 360 Weather Analysis. 3 hrs.**  
Introduction to reading weather maps and meteorological analysis techniques including satellite and radar image interpretation and numerical weather prediction. (PR: GEO 230)
- 401 Historical Geography. 3 hrs.**  
An examination of the spatial aspects of prominent historical patterns and processes, including demographic patterns, economic development, cultural diffusion, state formation, and urbanization.
- 402 Geography of Appalachia. 3 hrs.**  
A study of the geography of Appalachia, including landforms, climate, settlement patterns, population, economics, resources, politics, and environmental changes.
- 403 Geography of Asia. 3 hrs.**  
An examination of the geography of Asia focusing on contemporary issues, including climate, culture, economics, environmental change, everyday life, international relations, landforms, language, politics, population, religion, and urbanization.
- 404 Geography of Europe. 3 hrs.**  
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.
- 405 Political Geography. 3 hrs.**  
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.
- 406 Population Geography. 3 hrs.**  
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.
- 407 Geography of Sub-Saharan Africa. 3 hrs.**  
An exploration of the geography of Sub-Saharan Africa, its land and people, with a focus on contemporary issues that challenge Africans in the 21st Century.

- 408 Geography of South and Middle America. 3 hrs.**  
A study of settlement, transportation, manufacturing, agriculture, geopolitics, and natural resources of South and Middle American countries.
- 409 Geography of North Africa and Middle East. 3 hrs.**  
A geographical study of agriculture, transportation, manufacturing, settlement, geopolitics, and natural resources of the Middle Eastern countries.
- 410 Urban Geography. 3 hrs.**  
Study of the morphology, function, and development of cities and the urban fringe. An emphasis is place on social and environmental costs of urbanization, as well as urban and rural linkages.
- 411 Health and Medical Geography. 3 hrs.**  
**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.**
- 412 Geography of Russia. 3 hrs.**  
An examination of the geography of Russia focusing on contemporary issues, including climate, culture, economics, environmental change, everyday life, international relations, landforms, language, politics, population, religion, and urbanization.
- 414 Principles and Methods of Planning. 3 hrs.**  
An examination of contemporary planning focusing on principles, methods, techniques, and tools; and the political, legal, and ethical contexts of planning.
- 415 Urban Land Use Planning. 3 hrs.**  
Application of principles, methods, and tools of planning; and overview of government policy, code of ethics, and the constitutional basis of contemporary urban land use planning. (PR: GEO 414 or permission of instructor)
- 416 Environmental Issues in Planning. 3 hrs.**  
An examination of the role the natural environment plays in urban and rural land use planning; with an emphasis on consequences of land use change, and applications of planning techniques.
- 418 Geography for Teachers. 3 hrs.**  
A study of the elements of geography education focused on meeting the content standards and objectives for the elementary and secondary school levels.
- 419 Geography of Gender. 3 hrs.**  
An examination of contemporary gender issues and problems from a geographic perspective, including the spatial aspects of equality, health, poverty, human rights, and economic and political participation.
- 421 Concepts and Methods in Geography. 3 hrs.**  
Survey of the history, literature, prominent individuals, and major paradigms in geography. Review of the major concepts in geography and an introduction to various methods of geographic inquiry.
- 422 Environmental Geography. 3 hrs. I, II.**  
A geographical survey of environmental changes caused by human activities. Focus is on resource availability and use; pollution of air, water, and biosphere; energy problems, and interaction of humans with plant and animal communities.
- 425 Climatology. 3 hrs.**  
A study of elements of weather and climate, methods of climatic classification, and distribution and characteristics of world climate regions. (PR: GEO 101 or GEO 230 or permission)
- 426 Principles of GIS. 4 hrs.**  
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.
- 429 Intermediate GIS - Vector Analysis. 3 hrs.**  
Introduction to GIS vector analysis, beginning with the vector data model, and including buffering, overlay analysis, geocoding, and network analysis. (PR: GEO 426 or GEO 430 or GEO 431 or IST 423 or permission)
- 430 Intermediate GIS - Raster Analysis. 3 hrs.**  
GIS raster analysis, including local, neighborhood, and zonal operations, terrain analysis, building raster databases, distance modeling, and surface interpolation. (PR: GEO 426 or GEO 429 or GEO 431 or IST 423 or permission)
- 431 Principles of Remote Sensing and Photogrammetry. 3 hrs.**  
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. (PR: GEO 426 or GEO 429 or GEO 430 or IST 423 or permission)
- 432 Enterprise GIS. 3 hrs.**  
Principles and techniques for planning, implementing, and managing Geographic Information Systems technologies in a firm or agency. (PR: GEO 426 or GEO 429 or GEO 430 or GEO 431 or IST 423)
- 433 GPS and Mobile Geospatial Technologies. 3 hrs.**  
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. (PR: GEO 426 or GEO 429 or GEO 430 or GEO 431 or IST 423)
- 480-483 Special Topics. 1-4; 1-4; 1-4; 1-4 hrs.**
- 485-488 Independent Study. 1-4; 1-4; 1-4; 1-4 hrs.**
- 490 Internship. 3 hrs.**  
Cooperative learning experience with regional employer/government agency.
- 499 Senior Capstone Project. 1-3 hrs.**  
This senior capstone course combines research methods, data collection, and analysis to produce original research on questions and problems in geography.

## **GEOLOGY (GLY)**

- 110 General Geology. 3 hrs. I, II, S.**  
A beginning level geology course which surveys elements of earth materials, processes, structures and history. Designed primarily for the non-science major. Prospective majors must maintain at least a *B* average to use Geology 110 as a prerequisite for other geology courses. 3 lec. (CR: GLY 210L) Recommended follow-up courses are Geology 201 and 211L.
- 150 Introductory Oceanography. 3 hrs. II.**  
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. 3 lec. (CR: GLY 150L)
- 150L Introductory Oceanography Laboratory. 1 hr. II.**  
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. (PR or CR: GLY 150)
- 200 Physical Geology. 3 hrs. I, II.**  
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. (CR: GLY 210L) Recommended follow-up courses are Geology 201 and 211L.

- 201 Historical Geology. 3 hrs. II.**  
Chronological history and development of the earth, sequence of the geologic ages and rock formations, development and evolution of life as revealed by fossils. (PR: GLY 110 or 200. CR: GLY 211L)
- 210L Earth Materials Laboratory. 1 hr. I, II, S.**  
An introduction to laboratory and materials as applied to the identification, classification, recovery and uses of earth resources. 2 lab. (CR: GLY 110 or 200)
- 211L Historical Geology Laboratory. 1 hr. II.**  
Reconstruction of events in earth history based on physical characteristics and arrangement of rock layers and their fossil content. 2 hr. lab. (PR: 210L; CR: GLY 201)
- 212 Geological Field Mapping. 2 hrs. I, Alternate years (even numbers).**  
An introduction to geologic mapping and map interpretation, preparations of topographic and geologic cross sections. 2 lab. (Field work). (PR: GLY 110, 200 or 201. Required of majors)
- 280-283 Special Topics. 1-4 hrs.**
- 313 Structural Geology. 4 hrs. I, Alternate years (even numbers).**  
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. (PR: GLY 200).
- 314 Mineralogy. 4 hrs. I, Alternate years (odd numbers).**  
Identification, classification, origin, occurrences, and economic uses of minerals and their crystallographic forms. 3 lec-2 lab. (PR: GLY 110 or 200, CHM 211, 212 and appropriate labs)
- 320L Geology Lab Techniques. 2 hrs.**  
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.
- 325 Stratigraphy and Sedimentation. 4 hrs. I, Alternate years (even numbers).**  
Formation, organization, sequence, and correlation of sedimentary rocks; study of the origin, transportation and deposition of rock-forming sediments. 3 lec-2 lab. (PR: GLY 201)
- 418 Invertebrate Paleontology. 4 hrs. I, Alternate years (odd numbers).**  
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)
- 420 Geochemistry. 3 hrs.**  
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. (CR/PR: GLY 314; CHM 211)
- 421 Petrology. 4 hrs. II, Alternate years (even numbers).**  
Identification and classification of igneous, and metamorphic rocks, their origin and occurrence; their geologic and economic importance. 3 lec-2 lab. (PR: GLY 200, GLY 314 or consent)
- 423 Sedimentary Petrography. 4 hrs. I, Alternate years (odd numbers).**  
Megascopic and microscopic identification and a depositional and post depositional interpretation of the sedimentary rocks. 3 lec-2 lab. (PR: GLY 201 and 314)
- 426 Geophysics. 4 hrs. II, Alternate years (even numbers).**  
and dynamics of the earth. 3 lec-2 lab. (PR: GLY 200, PHY 201, MTH 229)
- 427 Fossil Fuels. 4 hrs. II, Alternate years (odd numbers).**  
Origin and distribution of coal, oil and gas, and methods of exploration and reserve evaluation. 3 lec-2 lab. (PR: GLY 313, 325 or permission)
- 430 Computer Methods in Geology. 4 hrs. II, Alternate years (odd numbers).**  
Computers are used for compilation, data analysis and modeling from a wide range of geological problems. 3 lec-2 lab. (PR: 12 hrs. GLY, a variety of software is used)
- 451 Geomorphology. 4 hrs. I, Alternate years (odd numbers).**  
Principles of identification and analysis of the world's surficial features in terms of stratigraphy, structure, processes, tectonics and time. 3 lec-2 lab. (PR: GLY 110, 200, 210L or consent; CR: GLY 451L for m majors, elective for non-majors)
- 455 Hydrogeology. 3 hrs. II, Alternate years (even numbers).**  
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. (PR: GLY 110 or 200; CR: GLY 455L for majors, elective for non-majors)
- 455L Hydrogeology Laboratory. 1 hr. II, Alternate years (even numbers).**  
A two-hour laboratory of practical hydrogeologic problem solving. For non-majors, elective. (CR: Geology 455 for majors)
- 456 Environmental Geology. 4 hrs. II, Alternate years (even numbers).**  
Consideration of risks posed by natural geo-hazards and from physical / chemical contamination of geologic media. (PR: GLY 200, GLY 210L or equivalent; REC: GLY 451)
- 457 Engineering Geology. 4 hrs. I., Alternate years (even numbers).**  
Consideration of geotechnical problems faced by geologists and engineers. Major topics include mechanics and classification of soil and rock, and geotechnical aspects of groundwater. (PR: GLY 200, 210L, MTH 132)
- 480-483 Special Topics. 1-4 hrs.**
- 485-488 Independent Study. 1-4 hrs.**
- 491-492 Capstone Experience. 2-4 hrs.**  
An independent study involving a research project or internship; must be approved by geology faculty.

## GERMAN (GER)

- 101 Elementary German I. 3 hrs.**  
Pronunciation, conversation, reading, and composition with an emphasis on aural/oral development.
- 102 Elementary German II. 3 hrs.**  
Pronunciation, conversation, reading, and composition with an emphasis on aural/oral development. (PR: GER 101 with a C or better or permission)
- 203 Intermediate German. II. 3 hrs. I, II, S.**  
Intermediate level of the basic language skills; pronunciation, conversation, reading, and composition with emphasis on aural/oral development. (PR: GER 102 with a C or better or permission)
- 204 Intermediate German. 3 hrs. I, II.**  
Intermediate level of the basic language skills; pronunciation, conversation, reading, and composition with emphasis on aural/oral development. (PR: GER 203 with a C or better)
- 240 German Society and Life. 3 hrs. I or II.**  
Study of selected topics relating to culture and life in the German speaking countries. Lectures, readings, and discussions in English. No prerequisite.
- 280-283 Special Topics. 1-4; 1-4; 1-4; 1-4 hrs.**

- 301 Drama of the 19th and 20th Centuries. 3 hrs.**  
A survey of literary trends and main authors. Reading and comprehension of selected dramas of the period. (PR: GER 204)
- 302 Prose of the 19th and 20th Centuries. 3 hrs.**  
A survey of literary trends and main authors. Reading and comprehension of selected stories and discussion of novels. (PR: GER 204)
- 315-316 Advanced Grammar and Composition. 3; 3 hrs.**  
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 German. (PR for 315: GER 204. PR for 316: GER 315 or permission)
- 405-406 German Civilization and Culture. 3; 3 hrs. I, II.**  
German culture from prehistoric times to present-day divided Germany. Lectures, reports, discussions, representative readings in English and German. Capstone course. (PR: GER 204).
- 417-418 Survey of German Literature. 3; 3 hrs.**  
A study of important literary movements, representative authors and their works from the Middle Ages to the present. Capstone course. (PR: GER 204)
- 419-420 German Literature of the Classical Age. 3; 3 hrs.**  
German literature of the classical age, stressing Goethe, Schiller, and romanticism. (PR: for 419: GER 204)
- 480-483 Special Topics. 1-4; 1-4; 1-4; 1-4 hrs. I, II.**  
(PR: GER 204 and permission)
- 485-488 Independent Study. 1-4; 1-4; 1-4; 1-4 hrs.**  
(PR: GER 204)
- 495H-496H Readings for Honors in German. 2-4; 2-4 hrs. I, II.**  
Open only to German majors with outstanding ability. See Honors Courses.

## GREEK (GRK)

- 201-202 Ancient Greek First Year. 3; 3 hrs. I, II.**  
(PR for GRK 202: GRK 201)
- 301-302 Ancient Intermediate Greek. 3; 3 hrs. I, II.**  
Varied readings including selections from Homer's Iliad, Dialogues of Plato and the New Testament. (PR: GRK 202 for 301; GRK 301 for 302).
- 485-488 Independent Study. 1-4; 1-4; 1-4; 1-4 hrs.**  
(PR: GRK 302)

## HEALTH PROFESSIONS (HP)

- 110 Introduction to the Health Professions. 3 hrs.**  
This course is designed to provide an overview of the health care system and health professions taught on the MU campus and throughout the state.
- 210 Health Sciences Seminar. 3 hrs.**  
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. (PR: HP 110)
- 320 Introduction to Research in Health Professions. 3 hrs.**  
This course covers the basic quantitative and qualitative research techniques used in the health professions. (PR: HP 110, HP210 and Statistics)
- 420 Allied Health Sciences Administration.**  
In this course students will explore and apply allied health sciences principles as they relate to the student's focus in the Health Sciences major.
- 450 BHS Senior Seminar. 1 hr.**  
Opportunity for students to explore current topics related to areas of interest.
- 490 BHS Capstone. 3-6 hrs.**  
This course offers an opportunity for students to demonstrate that they have achieved the goals for learning established by the Bachelor of Health Sciences program.

## HEALTH SCIENCE (HS)

- 122 First Aid for Children and Infants. 1 hr. I,II.**  
First aid and CPR for children and infants related to the home, school, and playground.
- 200 Comprehensive Medical Terminology. 3 hrs. II.**  
This course is designed to introduce students to basic medical terminology and basic pharmacology.
- 201 Introduction to Applied Anatomy and Physiology. 3 hrs. I, II.**  
Focuses on basic anatomy and physiology as applied to physical activity.
- 212 Practical and Emerging Techniques in Athletic Training. 3 hrs. I,**  
This course introduces students to taping, wrapping and advanced emergency care techniques used in athletic training. (CR: Admission to the Athletic Training program)
- 215 Introduction to Athletic Training. 3 hrs. I, II.**  
Survey and study of the basic techniques and practices of athletic training. (PR: HS 201 or BSC 227)
- 220 Personal Health I. 3 hrs. I.**  
A survey course that focuses upon wellness promotion and prevention of various health problems.
- 221 Personal Health II. 3 hrs. I, II.**  
An examination of the health content areas of mental/emotional health, substance use/abuse, and human sexuality/family life education. (PR: HS 220)
- 222 Health Providers' First Aid. 3 hrs. I, II, S.**  
First aid, CPR, and AED skills for health care providers. Additional topics include musculoskeletal injuries, environmental conditions, and sudden illness.
- 230 Orthopedic Skills and Procedures. 3 hrs.**  
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. (PR: HS201 or BSC227 or equivalent)
- 235 Introduction to Work Site Wellness. 3 hrs.**  
An introduction to worksite wellness programming including the basic components of an effective wellness program and how to integrate wellness into corporate culture.
- 255 Athletic Training Clinical Experience: Level I. 3 hrs. II.**  
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 Athletic Training Program)

- 280-283 Special Topics. 1-4; 1-4; 1-4; 1-4 hrs.**  
**321 The School Health Program. 3 hrs. I, II, S.**  
 A consideration of the comprehensive school health program, including a special focus upon health services and health instruction. (PR: EDF 218)
- 325 School and Community Health. 3 hrs. II.**  
 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)
- 335 Worksite Health Assessment. 3 hrs.**  
 An investigation into worksite health assessment models and modes. (PR: C or better in HS 235)
- 336 Organization and Administration of Worksite Wellness Programs. 3 hrs.**  
 This is a course that investigates current trends in worksite wellness organization and administration and provides instruction on integration of wellness and prevention interventions into corporate culture and business plans. (PR: C or better in HS 235)
- 345 Worksite Wellness Prescription. 3 hrs.**  
 This is a course that investigates prescription of worksite wellness programming based on data collection methods and current industry Best Practices for wellness interventions.
- 346 Evaluation of Worksite Wellness Programs. 3 hrs.**  
 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 interventions.
- 360 Athletic Training Clinical Experience: Level II. 2 hrs. I.**  
 To continue developing athletic training evaluation and treatment skills under the direction of a BOC-certified Athletic Trainer. Requires 150 clinical hours. (PR: HS 255)
- 361 Athletic Training Clinical Experience: Level III. 2 hrs. II.**  
 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: HS 360)
- 365 Functional Kinesiology. 3 hrs. I, II.**  
 Applied anatomy of the human musculature and biomechanics in relation to physical activity. (PR: BSC 227 or HS 201)
- 369 Motor Learning. 3 hrs.**  
 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.
- 410 Organization and Administration in Athletic Training. 3 hrs.**  
 This is a course that investigates current trends in administration and organization in the field of athletic training. (PR: HS 215)
- 422 Orthopedic Evaluation for the Athletic Trainer. 3 hrs. I.**  
 Evaluation of musculoskeletal orthopedic injuries of the upper and lower extremities. (PR: HS 215)
- 423 Orthopedic Evaluation of the Upper Extremity for Athletic Trainers. 3 hrs.**  
 Orthopedic evaluation of the neck and upper extremity for the athletic trainer. (PR: HS 215)
- 424 Orthopedic Evaluation of the Lower Extremity for Athletic Trainers. 3 hrs.**  
 Orthopedic evaluation of the back and lower extremity for the athletic trainer. (PR: HS 423)
- 426 Curriculum in Health Education. 3 hrs. I.**  
 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)
- 430 Health Issues in Physical Education and Athletics. 3 hrs.**  
 Survey of current health issues such as sanitation, contagious diseases, substance abuse, ergogenic aids, and diet/nutrition in PE and athletics. (PR: HS 221, HS 201 or BSC 227, HS 215, ESS 435)
- 440 Health Evaluation for the Athletic Trainer I. 3 hrs. I.**  
 A study of common problems and illnesses of athletes and other physically active individuals and the proper methods of evaluating these complaints. Includes a lab. (PR: HS 422)
- 448 Therapeutic Modalities in Sports Medicine. 3 hrs. II.**  
 Investigation and analysis of therapeutic modalities including indications, contraindications, biophysics and procedures. Includes a lab. (PR: HS 215)
- 449 Therapeutic Exercise in Athletic Training. 4 hrs.**  
 Investigation and analysis of current trends in rehabilitation exercise, muscle testing and evaluation. Includes a lab. (PR: HS 422)
- 460 Athletic Training Clinical Experience: Level IV. 2 hrs. S.**  
 To continue developing athletic training evaluation and treatment skills under the direction of BOC-certified Athletic Trainer and/or other qualified allied health professionals. Requires 150 clinical hours. (PR: HS 361)
- 464 Pathomechanics. 3 hrs.**  
 An investigation into normal and abnormal human movement patterns in sport, the workplace, and in activities of daily living. (PR: HS 365 or ESS 321)
- 465 Biomechanical Analysis of Movement. 3 hrs.**  
 An investigation into normal and abnormal human movement patterns in sport, the workplace, and in activities of daily living. (PR: ESS 321 or HS 365, and PHY 202)
- 475 Trends in Biomechanics. 3 hrs.**  
 To provide an in-depth analysis of current trends in the field of biomechanics.
- 479 Trends in Athletic Training. 3 hrs. II.**  
 To provide an in-depth analysis of current trends with regard to administration, liability, sport pharmacology and insurance. Cover current standards in surgery, rehabilitation, and evaluation of sport-related injuries.
- 480-483 Special Topics. 1-4; 1-4; 1-4; 1-4 hrs.**  
 Health education majors only, with permission of department chairman.
- 485-488 Independent Study. 1-4; 1-4; 1-4; 1-4 hrs.**
- 490 Internship: Paraprofessional Student Experience. 3-8 hrs.**  
 Supervised clinical experience in an approved setting. Can be repeated for a total of 8 hours. Capstone experience requires 3 hours minimum in one term. Capstone experience. (PR: HS 460 and/or program permission)

## HISTORY (HST)

- 101 The Great Civilizations to 1300 (CT). 3 hrs. I, II.**  
 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.
- 102 The World and the Rise of the West, 1300 to the Mid-19th Century (CT). 3 hrs. I, II.**  
 An interdisciplinary analysis of the foundations of Western development. This class emphasizes critical thinking skills.



- 103 The World Since 1850 (CT). 3 hrs. I, II.**  
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.
- 103H The World Since 1850 - Honors (CT). 3 hrs.**  
Survey for superior students of world developments and trends from the 19th century to the present and their implications for the future. (PR: Admission to Honors College)
- 125 American Business History. 3 hrs.**  
A survey of the development of the major financial, commercial, manufacturing, and transportation enterprises which transformed the United States from an agricultural to a leading industrial nation.
- 200 Sophomore History Methods Workshop. 3 hrs.**  
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.
- 205 English History to 1642. 3 hrs. I.**  
A political and social survey of England. Emphasis is placed on the development of the English Parliament.
- 206 English History Since 1642. 3 hrs. II.**  
A continuation of English History 205. Special attention is given to the development of ministerial government and to the growth and decline of the British Empire.
- 208 The Developing World (CT). 3 hrs.**  
A comparative survey of selected Third World countries focusing on imperialism, colonialism and present developmental efforts. This class emphasizes critical thinking skills.
- 218 Ancient Egypt. 3 hrs.**  
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.
- 219 Ancient History. 3 hrs.**  
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.
- 220 European History - Medieval. 3 hrs.**  
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.
- 223 The Rise and Fall of Nazi Germany. 3 hrs.**  
A study of the origins, course, and collapse of the Third Reich. Some attention will be given to pre-Nazi period.
- 230 American History to 1877 (CT). 3 hrs. I, II, S.**  
A general survey from the discovery in 1492 through the period of Reconstruction. This class emphasizes critical thinking skills.
- 230H American History to 1877 - Honors. 3 hrs.**  
A survey of American history to 1877 for the superior student. (PR: Admission to Honors College)
- 231 American History From 1877 (CT). 3 hrs. I, II, S.**  
A general survey since Reconstruction. This class emphasizes critical thinking skills.
- 231H American History Since 1877 - Honors. 3 hrs.**  
A general survey since Reconstruction for the superior student. (PR: Admission to Honors College)
- 250 Women in United States History. 3 hrs.**  
A study of the public and private contributions of women in the shaping of the United States from the Colonial period to the present.
- 260 Rise of Islam, 570-1750. 3 hrs.**  
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.
- 265 Modern East Asia. 3 hrs.**  
A survey of the history of East Asia from 17<sup>th</sup> century to present with a focus on China and Japan.
- 280-283 Special Topics. 1-4; 1-4; 1-4; 1-4 hrs.**  
Selected topics not covered in regular course offerings.
- 301 Latin America: Discovery to Independence. 3 hrs.** Emphasis is on conditions which influenced the development of Latin America and eventually led to the independence movement.
- 302 Latin America: Independence to the Present. 3 hrs.**  
Emphasis is on the political, economic and social institutions of Argentina, Brazil, Chile and Mexico.
- 303 The American Military Experience. 3 hrs.**
- 304 Spanish History Since 1475. 3 hrs.**  
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.
- 305 Drug Wars in the U.S. and Latin America. 3 hrs.**  
This course examines the history of the war on drugs throughout U.S. and Latin American history with an emphasis on the past century.
- 306 The Holocaust. 3 hrs.**  
An exploration of the why and how of the Holocaust with an emphasis on Nazi Jewish policy from 1933 to 1942.
- 307 World War II and the Cold War. 3 hrs.**  
An international survey of World War II and the Cold War. Topics include military, political, diplomatic, social, and cultural history from a global perspective.
- 312 African-American History, 1619 to Present. 3 hrs.**  
A survey of African-American History from African and West Indian origins to the present.
- 313 Intro to Modern Africa. 3 hrs.**  
This course chronicles the "modern" history of sub-Sahara Africa from late 19<sup>th</sup> century to today.
- 323 Religion in America. 3 hrs.**  
The rise and development of religion and of religious thinking in America. (Same as Religious Studies 323)
- 330 Football and American Culture. 3 hrs.**  
**This class examines the role of football in American culture, politics, the economy and particularly its role in the elevation of college sports.**
- 333 American Colonial History. 3 hrs.**  
A study of the historical development of the English colonies in America.
- 342 American Legal History. 3 hrs.**  
Historical development of American law in areas ranging from slavery and racial discrimination to civil liberties and crime and punishment.
- 343 History of the United States in the 1970s. 3 hrs.**  
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 20<sup>th</sup> century.



- 347 Southern Women's History. 3 hrs.**  
This course explores the lives and experiences of Southern women in the U.S. from the colonial era to the present.
- 350 History of the U.S. Working Class. 3 hrs.**  
The history of the American working class.
- 360 Sports and Civil Rights. 3 hrs.**  
An examination of the way that sports history reflects important themes in U.S. history, such as equality, race, ethnicity, and gender.
- 361 The Modern Middle East. 3 hrs.**  
A survey of the modern Middle East with emphasis on the historical background of current controversial issues confronting the region.
- 365 History of the Civil Rights Movement. 3 hrs.**  
An exploration of 20th Century movements for civil rights in American history examining race, ethnicity, social class, and gender.
- 378 The Emergence of Modern Asia. 3 hrs.**  
A selective look at Modern Asia, focusing on Japan, China, Korea, Taiwan, Vietnam and Indonesia and American interaction with the Asian nations.
- 380 Civilizations of Asia to 1600. 3 hrs.**  
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.
- 400 Senior Seminar. 3 hrs. II.**  
A capstone course for History majors. Survey of literature and practical experience in methods and sources of history through bibliographical study and research papers. Capstone experience. (PR: HST 200, Senior standing or by permission.)
- 404 American Diplomacy, 1789-1900. 3 hrs.**  
American foreign policy from colonial times to 1900 emphasizing the gradual development of the United States and its achievement of membership in the family of nations.
- 405 American Diplomacy, 1900 To Present. 3 hrs.**  
American foreign relations in the 20th century. The gradual retreat from isolation in the period between World War I and World War II and modern American involvement in international commitments are stressed.
- 406 Tudor and Stuart England, 1450-1688. 3 hrs.**  
A history of England under the Tudors and Stuarts, focusing primarily on demographic, social, cultural, and political developments.
- 407 The History of Sexuality. 3 hrs.**  
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.
- 408 History of LGBT Peoples. 3 hrs.**  
A survey of gay, lesbian, bisexual and transgender history in the United States from the colonial period to the present.
- 409 American Revolution. 3 hrs.**  
A varied view of the American Revolution and its impact on the American people.
- 411 U.S. Social and Cultural History. 3 hrs.**  
A study of the changes and continuities in American social cultural history.
- 414 Civil War and Reconstruction. 3 hrs.**  
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.
- 421 The Era of the Renaissance and Reformation. 3 hrs.**  
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.
- 423 US Latin-American Relations. 3 hrs.**  
An appraisal of political, economic, and cultural relations of the U.S. and Latin America in a historical context with emphasis on the period since 1945.
- 424 U.S. Science and Technology. 3 hrs.**  
A study of the development and impact of science and technology in the U.S.
- 425 European History, 1814-1914. 3 hrs.**  
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.
- 426 European History, 1914 to Present. 3 hrs.**  
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.
- 428 Intellectual and Cultural History of Modern Europe. 3 hrs.**  
A survey of the main events in European thought and culture in the 19th and 20th centuries.
- 430 Soviet Russia and Beyond. 3 hrs.**  
The rise and fall of the Soviet Union, with emphasis on political and economic changes and Soviet foreign policy, including an examination of the aftermath of the Soviet Union's collapse.
- 433 In Our Time - America Since 1945. 3 hrs.**  
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.
- 434 The American Experience in Vietnam. 3 hrs.**  
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.
- 435 Modern Japan. 3 hrs.**  
Begins with an overview of nineteenth century Japan and stresses the twentieth century rise of Japan to the position of world power.
- 436 Modern China. 3 hrs.**  
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.
- 437 Seminar in Public History. 3 hrs.**  
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.
- 438 Material Culture and History. 3 hrs.**  
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.
- 439 Modern China Through Film. 3 hrs.**  
Through a combination of films, lectures, readings, discussions, and writings, the course will show how China took its unique path to modernization.
- 440 West Virginia History. 3 hrs.**  
An interdisciplinary study of the state, its people and its institutions within the national context. (PR: HST 230 and 231)

- 441 Women in Social Movements. 3 hrs.**  
This course explores factors affecting the emergence, growth, structure, impact of social movement as they attempt to transform social relationships and reshape social values.
- 442 Latin America Firsthand. 3 hrs.**  
Students learn Latin American history through a 15-day mobile classroom experience in one of a number of countries. Texts, presentation, journals, and papers are also required.
- 443 Twentieth Century U.S. Women's History. 3 hrs.**  
This course explores the diverse lives and experiences of 20<sup>th</sup> century U.S. women, always with an emphasis on power.
- 444 The History of Popular Culture in the United States. 3 hrs.**  
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.
- 445 Arab-Israeli Conflict. 3 hrs.**  
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.
- 446 The Rise of the Atlantic World, 1400 – 1800. 3 hrs.**  
This course considers the expansion of western Europe, beginning in the early 1400s to Africa, Latin America, and other parts of the Atlantic world.
- 447 Film and Empire. 3 hrs.**  
This course explores the nature and importance of empires through the reading of key texts and the study of selected films.
- 450 Baseball in the Americas. 3 hrs.**  
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.
- 451 History of Women in Sports. 3 hrs.**  
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.
- 452 History of Sports in America. 3 hrs.**  
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.
- 480-483 Special Topics. 1-4; 1-4; 1-4; 1-4 hrs.**  
(PR: Consent of department chair).
- 485-488 Independent Study. 1-4; 1-4; 1-4; 1-4 hrs.**  
(PR: Consent of department chair).
- 495H-496H Readings for Honors in History. 4; 4 hrs. I, II.**  
Open to history majors of outstanding ability. Study may deal with any field of history. Wide reading and comprehensive understanding of the era are required. (PR: Consent of department chair) See Honors Courses.

## HONORS (HON)

See UNIVERSITY HONORS.

## INTERNATIONAL AFFAIRS (INT)

- 100 Introduction to International Affairs. 3 hrs.**  
A survey of the processes and issues surrounding globalization. This course is the introductory course for International Affairs majors.
- 499 Senior Seminar. 3 hrs.**  
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.

## INTEGRATED SCIENCE AND TECHNOLOGY (IST)

- 111 Living Systems. 4 hrs.**  
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.
- 120 Connections I (CT). 3 hrs.**  
Critical thinking course that makes connections among science, technology, and society. Students learn to do research, summarize popular and scientific articles, and design an experimental or observational study.
- 130 Analytical Methods: Statistics. 4 hrs.**  
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.
- 150 Spreadsheet and Database Principles. 3 hrs.**  
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.
- 160 Introduction to Programming. 3 hrs.**  
Introduces the students to modern data gathering methods and programming for the Internet. The course covers programming, graphic programming interface packages, and problem solving methods.
- 163 Programming Practicum with C++. 3 hrs.**  
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.
- 201 Advanced Communications. 4 hrs.**  
Advanced work in written and oral communications. Emphasis upon critical use of argument, advanced technical writing, multimedia presentations, group discussions, advanced research methods, and adapting messages to various audiences. (PR: IST 101, CR: IST 220)
- 212 Energy. 3 hrs.**  
The course introduces the student to the properties and the interfaces of biological and physical systems with emphasis upon energy concepts, production, and distribution in both systems.
- 220 Connections II (CT). 3 hrs.**  
Critical thinking course that further examines the impact of science and technology on society. Themes have included disasters and globalization. Students present a lesson, analyze opposing arguments and make predictions.
- 224 Introduction to Forensic Science. 4 hrs.**  
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.

236	<b>Data Structures. 3 hrs.</b> 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 participation. (PR: IST 163)
238	<b>Algorithms. 3 hrs.</b> Covers algorithm-design methods, algorithm performance and analysis, and optimization techniques. Covers algorithm applications used in solving frequently occurring problems, such as pattern matching, data compression, searching, and sorting. (PR: IST 236)
241	<b>Introduction to DNA Cloning. 4 hrs.</b> 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. (PR: IST 111, or BSC 120 and CHM 211)
243	<b>Biotechnology Regulation. 2 hrs.</b> Course provides an overview of cGMP and FDA regulations for pharmaceutical, biotechnology and medical device industry including Quality Control and Quality Assurance, upstream and downstream processing.
260	<b>Instrumentation I. 3 hrs.</b> The course introduces students to modern data gathering methods, laboratory instrumentation, and programming. Focuses range from transportation development, forensics, to environmental issues.
261	<b>Introduction to Linux. 3 hrs.</b> An introductory course for the Linux operating system, focusing on its application in information assurance and digital forensics.
263	<b>Web Programming. 3 hrs.</b> 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.
264	<b>Technology Foundations. 3 hrs.</b> 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.
280-283	<b>Special Topics. 1-4 hrs.</b> A course on some topic not treated in the regular course offerings.
285-286	<b>Independent Study. 1-4 hrs.</b> Independent Study for selected sophomores or advanced freshmen under supervision of faculty; may be repeated only once.
301	<b>Public Service Experience. 1 hr.</b> 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)
303	<b>C#.Net Programming. 3 hrs.</b> 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. (PR: IST 236)
320	<b>Nature of Environmental Problems. 3 hrs.</b> The effects of human activity on ecological, political, and cultural systems are examined. Particular attention is given to present human population growth, industrial activities, and energy availability.
321	<b>Resolution of Environmental Problems. 3 hrs.</b> 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.
322	<b>Assessment I: Terrestrial Systems. 4 hrs.</b> Use of scientific procedure and current technology to characterize and quantify sensitive elements of terrestrial ecosystems and to assess human impact on those systems. (PR: IST 111 or BSC 104 or BSC 120)
323	<b>Assessment II: Aquatic Ecology. 4 hrs.</b> Use of scientific procedures and current technology to characterize and quantify sensitive elements of aquatic ecosystems and to assess human impact on those systems. (PR: IST 111 or BSC 104 or BSC 120)
332	<b>Software Engineering I. 3 hrs.</b> 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 topics. (PR: IST 111 or BSC 104 or BSC 120)
333	<b>Software Engineering II. 3 hrs.</b> A continuation of IST 332. It covers the system development lifecycle: requirements analysis and specifications, design methods, system implementation and integration, testing, and reuse issues. Project participation. (PR: IST 332)
334	<b>Programming Languages. 3 hrs.</b> Evaluation of the specification, syntax, semantics, compilation, and software development issues surrounding the development of programming languages. Students are introduced to imperative and functional languages; concurrency, logic, object-oriented approaches. (PR: IST 236)
335	<b>Multimedia Systems and Application Design. 3 hrs.</b> Introduction to multimedia literacy, concepts, elements, issues, and application development tools. Hands-on experience with different forms of multimedia, including digital video, audio, images and multimedia authoring packages.
336	<b>Computer Architecture and Digital Logic. 4 hrs.</b> Students will study microprocessor design, computer bus structures, memory organization, I/O device and data path design and optimizations, CPU structures and design, and digital circuits and their design.
337	<b>Operating Systems. 3 hrs.</b> Covers current operating systems that support networking and distributed processes. Topics include process management, memory management, security issues, network support and management, and hardware management. (PR: IST 163)
340	<b>DNA Technology. 4 hrs.</b> Hands-on course using genes to manufacture proteins. DNA manipulation, sequencing, cloning, library construction, screening, PCR and techniques used in biotechnology and pharmaceutical industries. (PR: IST 241 or CHM 212 or BSC120 or equivalent)
341	<b>Human Genetics. 4 hrs.</b> 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)
342	<b>Bioscience Research Methods. 2 hrs.</b> 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. (PR: IST 241 or CHM 212 or BSC 120)
343	<b>Genomic Cloning and Cytogenetics. 4 hrs.</b> 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. (PR: IST 241 or BSC 120 or CHM 212)
350	<b>Manufacturing Systems. 3 hrs.</b> Various manufacturing systems used within organizations are introduced. Methods of manufacturing are presented along with various technologies employed. Design for manufacturing, material management, quality considerations, etc. are treated.

- 360 Game Development I: 2D. 3 hrs.**  
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. (PR: IST 163 & IST 236)
- 362 Network Protocols. 3 hrs.**  
This course provides students with knowledge of network terminology, structures, topologies, protocols, and interfaces involving Local Area and Wide Area networks. (PR: IST 163)
- 363 Network Administration. 3 hrs.**  
Students will explore topics in network administration in a theoretical and practical way. Students will study hardware selection, platforms, languages, control, shared resources, security, anti-virus procedures, and methodologies. (PR: IST 362)
- 365 Database Information Management. 3 hrs.**  
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.
- 366 Database Design and Reporting. 3 hrs.**  
Technical database design, data modeling techniques, advanced database query functions, and database manipulation concepts. The development of conceptual and organizational skills for planning and creating effective formal written reports. (PR: IST 365)
- 420 Remote Sensing with GIS Applications. 4 hrs.**  
A study of the physical systems for collecting remotely sensed data. Statistical/spatial analysis and modeling using large processing/geographic information/spatial computer software systems with earth resources applications. (PR: MTH 127)
- 421 Digital Image Processing/GIS Modeling. 4 hrs.**  
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. (PR: MTH 127)
- 423 GIS and Data Systems. 3 hrs.**  
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.
- 428 CAD and Terra Modeling. 3 hrs.**  
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. (PR: IST 423)
- 430 Electronic Commerce. 3 hrs.**  
This course examines electronic commerce with group decision making and collaborative applications through the Internet. Develop applications that retrieve and store information in distributed databases. (PR: IST 365)
- 434 Molecular Diagnostics. 3 hrs.**  
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. (PR: BSC 121 or 250 or CHM 212 or IST 340)
- 435 Biomonitoring. 4 hrs.**  
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. (CR/PR: BSC 120 or equivalent)
- 436 Advanced Web Programming. 3 hrs.**  
Includes topics in XHTML, JavaScript Data Object Model, dynamic application of CSS rules to page elements, browsers' support for XML, object-oriented PHP programming, service side graphics generation, web services. (PR: IST 263)
- 438 Computer Graphics for Gaming. 3 hrs.**  
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. (PR: IST 236)
- 439 Game Development II: 3D. 3 hrs.**  
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. (PR: IST 236)
- 440 Genetic Systems. 4 hrs.**  
Discusses basic structures and mechanisms of genetic information storage and transmission in all existing systems from viruses to humans. Provides necessary theoretical background for the understanding of DNA technology. (PR: IST 241 or CHM 212 or BSC 120)
- 441 Metabolic Systems. 4 hrs.**  
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. (PR: BSC120)
- 442 Bioethics. 3 hrs.**  
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.
- 443 Protein Biotechnology. 3 hrs.**  
Discussion covers basics of protein structure and function, post-translational modification and transport, simple immunology. Laboratories include protein quantification, enzyme kinetics, protein purification and dialysis, protein gel electrophoresis and staining.
- 444 Bioinformatics. 3 hrs.**  
Bioinformatics computer software is used to draw inferences from DNA and protein databases. Students will find patterns and meaning in genomic data through computer-aided analysis of DNA, RNA, and protein. (PR: IST 241 or CHM 212 or BSC 120)
- 445 DNA Forensics. 3 hrs.**  
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. (PR: IST 340 or IST 341 or equivalent)
- 446 Introduction to Digital and Multimedia Evidence. 3 hrs.**  
Introduction to the principles of forensics and their application to the practice of computer forensics. The foundations of criminal and civil law and the judicial system will be reviewed. (PR: IST 264)
- 447 Applied Digital Evidence and Electronic Discovery. 4 hrs.**  
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. (PR: IST 449)
- 448 Forensic Image/Video Analysis. 3 hrs.**  
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.
- 449 Data Recovery and Analysis. 3 hrs.**  
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. (PR: IST 264)
- 454 Network Defense. 4 hrs.**  
An in-depth examination of the principles, strategies, and tools used to defend, detect, and respond to a variety of common network attacks. (PR: IST 261 and IST 363)



- 455 Commercialization of Drugs, Biologics and Medical Devices. 3 hrs.**  
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. (PR: IST 340 or BSC 322)
- 456 Technology and Innovation. 3 hrs.**  
This class introduces technology venture formation and intellectual property. Course covers employment, confidentiality and consulting agreements. Development of Green Businesses is emphasized through business case studies and writing grant proposals.
- 457 Network Penetration and Attack. 4 hrs.**  
Students will explore tools and techniques used to penetrate, exploit and exfiltrate data from computers and networks. (PR: IST 261, IST 363)
- 460 Game Development III: AI. 3 hrs.**  
Advanced concepts of game development with a focus on artificial intelligence. AI techniques covered include A\* path finding algorithm, rule-based reasoning, reinforcement learning, neural networks, genetic algorithm, knowledge representation. (PR: IST 439)
- 461 Cyber Warfare. 3 hrs.**  
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. (PR: IST 362)
- 462 Network Forensics. 4 hrs.**  
Examination of techniques and tools used to investigate, search, collect, analyze, and report on network based breaches and events. (PR: IST 264, IST 363, IST449)
- 463 Digital Computer Evidence. 4 hrs.**  
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 different forensic tools is emphasized. (PR: IST 449)
- 464 Network Security and Cyber Crime. 3 hrs.**  
Addresses security issues for TCP/IP-based networks. Access Control and Communications issues are covered as well as Internet security in the areas of cryptography, protocols, applications, encryption, hash functions, digital signatures, etc. (PR: IST 362)
- 465 Network Design. 3 hrs.**  
Provides students with an In-depth study of data communications design principles, standards, protocols, algorithms, architectures, models, throughput and performance. Design principles related to multiple layers and management of networks also covered. (PR: IST 464)
- 466 Database Programming. 3hrs.**  
This course teaches students technical database programming with relational database systems. Students will work with fourth generation languages to analyze, design and develop, and execute programs in a database environment. (PR: IST 365)
- 467 Mobile Device Forensics. 4 hrs.**  
Identification, preservation, collection, analysis, and reporting techniques and tools used in the forensic examination of mobile devices such as cell phones and GPS units. (PR: IST 264, IST 449)
- 470 Internship in IST. 1-4 hrs.**  
A supervised internship in an area of Integrated Science and Technology. (PR: Permission)
- 480-483 Special Topics. 1-4; 1-4; 1-4; 1-4 hrs.**
- 485-488 Independent Study. 1-4; 1-4; 1-4; 1-4 hrs.**  
(PR: permission)
- 490 Senior Project I. 3 hrs.**  
Senior Capstone Experience. (PR: permission)
- 491 Senior Project II. 3 hrs.**  
Senior Capstone Experience. (PR: IST 490)
- 495H-496H Honors in Integrated Science and Technology. 3-4; 3-4 hrs.**

## INTEGRATED SCIENCES (ISC)

- 200 Energy: From Photosynthesis to Steam Engines. 4 hrs.**  
Relationships between present and historic levels of energy consumption and human population growth are examined. Issues compare energy use and technology of class members to comparable populations in developing countries. (PR: MTH 121 or higher, except MTH 400 and MTH 401)
- 201 Biotechnology. 4 hrs.**  
Biotechnology explores scientific, political, economic, and ethical aspects of recombinant DNA technology and genetically altered organisms. Class projects include DNA manipulation and analysis, forensic studies, and Internet exploration. (PR: MTH 121 or higher, except MTH 400 and MTH 401)
- 202 Freshwaters of the World. 4 hrs.**  
The course discusses the physics, chemistry, geology, and biology of freshwaters, its importance for all living things, and the need for conservation and pollution-prevention of this invaluable resource. (PR: MTH 121 or higher, except MTH 400 and MTH 401)
- 203 Doing Science: The Central Paradigms. 4 hrs.**  
Students will investigate the nature of science by studying several of its central theories and other issues. Students will gather and interpret evidence and research original and secondary sources. (PR: MTH 121 or higher, except MTH 400 and MTH 401)
- 204 Global Warming. 4 hrs.**  
The scientific data and principles behind the greenhouse effect are investigated as related to the issue of global climatic change.
- 205 Who-done-it: Introduction to Forensic Science. 4 hrs.**  
The relationship between scientific process and crime solutions will be examined. Particular attention will be given to use of DNA technology and probability theory in criminal justice system. (PR: MTH 121 or higher, except MTH 400 and MTH 401)
- 206 Living in Space. 4 hrs.**  
A space science courses that explores NASA-directed research. Students will compare "ground-based" investigations in plant science, physics, geology, human behavior and physiology with the results from space flight experiments. (PR MTH 121 or higher, except MTH 400 and MTH 401)
- 207 Coal Science. 4 hrs.**  
Examines the importance of coal to industrialized nations and the operation of the John Amos power plant. There is an assessment of the impact of mining activities on the environment. (PR: MTH 121 or higher, except MTH 400 and MTH 401)
- 208 Evolution: Process of Change. 4 hrs.**  
The issue of evolution is investigated. Topics from the Big Bang to the evolution of viruses are considered. Emphasis is on environmental, genetic, and molecular mechanisms governing change. (PR: MTH 121 or higher, except MTH 400 and MTH 401)
- 209 Chemistry in the Home. 4 hrs.**  
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. (PR: MTH 121 or MTH 123 or MTH 127 or MTH 130 or MTH 229).
- 210 Science & The Visual Arts. 4 hrs.**  
An overview of how science and mathematics contribute to the visual arts. Emphasis on perspective, proportion, scientific topics in art, mathematically based art form, and artist materials.
- 211 Living on Earth. 4 hrs.**  
A course introducing the basic concepts of environmental science and using the scientific method to study current environmental issues. (PR: MTH 121 or higher)

- 215 Transportation and the Environment. 4 hrs.**  
This course will focus on the issues surrounding the planning, construction, and mitigation of impacts by transportation systems in West Virginia. These systems include maritime, rails, roads, and air service.
- 217 Tropical Ecology. 4 hrs.**  
An introduction to tropical ecosystems including rainforest and coral reefs. Cultural sites visited. Permission of instructor. Course includes required international travel with extra fees.
- 220 Drugs and Disease: A Molecular Approach. 4 hrs.**  
Introduction to the human effort to understand, control and eradicate disease via the use of natural and synthetic drugs. (PR: MTH 121 or higher)

## INSTRUCTIONAL TECHNOLOGY AND LIBRARY SCIENCE (ITL)

- 350 Advanced Digital Literacy Skills. 3 hrs.**  
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.
- 365 Orientation to Technology Applications. 3 hrs.**  
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.
- 403 RBA Advanced Portfolio Development. 3 hrs.**  
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. (PR: Restricted to RBA majors, by permission of instructor only)
- 466 Production of Instructional Technology Materials. 3 hrs.**  
This course will assist students in designing multimedia instructional materials. Focus will be on the development of web-based instructional materials.

## JAPANESE (JPN)

- 101 Elementary Japanese I. 3 hrs.**  
Pronunciation, conversation, reading and composition with emphasis on aural/oral development. This includes katakana, hiragana, and Chinese characters, used in context.
- 102 Elementary Japanese II. 3 hrs.**  
Pronunciation, conversation, reading and composition with emphasis on aural/oral development. This includes katakana, hiragana and Chinese characters, used in context. (PR: JPN 101 with a C or better)
- 203 Intermediate Japanese III. 3 hrs.**  
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. (PR: JPN 102 with a C or better)
- 204 Intermediate Japanese IV. 3 hrs.**  
Development of practical conversational skills, reading for comprehension, and directed compositions. (PR: JPN 203)
- 240 Japanese Society and Culture in Translation. 3 hrs.**  
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.
- 280-283 Japanese Special Topics. 1-4 hrs.**  
Study of a topic not normally covered in courses. (CR/PR: JPN 204 and permission of instructor)
- 304 Japanese Literature In Translation. 3 hrs.**  
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.
- 305 Advanced Japanese I. 3 hrs.**  
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. (PR: JPN 204)
- 307 Japanese Conversation. 3 hrs.**  
Speaking-intensive course designed to develop communicative skills and review language fundamentals acquired in JPN 101-204 course sequence. Course taught in Japanese. (PR: JPN 204 or permission)
- 315 Advanced Japanese II. 3 hrs.**  
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. (CR/PR: JPN 305)
- 325 Business Japanese. 3 hrs.**  
Students learn conversational expressions and Japanese manners that can be used in actual business situations in Japanese companies. (PR: JPN 305 or permission)
- 335 Japanese Society and Culture. 3 hrs.**  
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. (PR: JPN 204)
- 401 Readings in Advanced Japanese I. 3 hrs.**  
Students learn comprehensive skills in contemporary Japanese at an advanced level and 250 new kanji. (CR/PR: JPN 315 or permission)
- 402 Readings in Advanced Japanese II. 3 hrs.**  
Students continue to learn comprehensive skills in contemporary Japanese at an advanced level and 250 new kanji. Students conduct survey research in Japanese. Course taught in Japanese. (CR/PR: JPN 401 or permission)
- 403 Japanese Film in English. 3 hrs.**  
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.
- 407 Japanese Teaching Methodology. 3 hrs.**  
Analysis and practical application of teaching Japanese, including professional development, language pedagogy, and language standards. For Japanese education majors only. (PR: JPN 315 or permission)
- 480-483 Japanese Special Topics. 1-4 hrs.**  
Study of a topic not normally covered in courses. (CR/PR: JPN 204 and permission of instructor)
- 490 Japanese Capstone Experience. 3 hrs.**  
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. (PR: JPN 401 or permission)



## JOURNALISM AND MASS COMMUNICATIONS (JMC)

- 101 Media Literacy. 3 hrs. I, II.**  
Examines structures and functions of mass media and provides a critical look at their effects on social concepts such as democracy and diversity. Includes print, electronic journalism, advertising, public relations.
- 102 Information Gathering and Research. 3 hrs. I, II, S.**  
Information gathering for media professionals including critical thinking, computer search tools, writing, editing, information use, word use fundamentals, interviewing, research, library use, and construction for mass communications professionals. (PR: JMC 101)
- 201 News Writing I. 3 hrs. I, II, S.**  
Techniques of cross-media news writing designed to develop basic skills necessary for beginning reporters and public relations professionals through in-class laboratory experience. (PR: Keyboarding proficiency, JMC 101, and JMC 102)
- 221 Advertising and Continuity Writing.**  
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. (PR: Computer keyboard proficiency, JMC 101, and JMC 102)
- 231 Introduction to Audio Production. 3 hrs. II.**  
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)
- 241 Graphics of Communication. 3 hrs. I, II, S.**  
Creative and practical aspects of typography, layout and design of printed communication. (PR: Keyboarding proficiency)
- 245 Introduction to Strategic Communications. 3 hrs. II.**  
An examination of theories, practices and techniques of strategic communications used by agencies and organizations.
- 272-273 Practice in Radio. 1 hr. I, II, S.**  
Staff responsibility on campus broadcast facilities, WMUL-FM. (PR: Written permission before registration and the satisfactory completion of one year of service on WMUL)
- 280-283 Special Topics. 1-4; 1-4; 1-4; 1-4 hrs. I, II, S.**
- 301 News Reporting II. 3 hrs. I, II.**  
Practice in gathering and writing news for campus media. Emphasis is placed on beat assignment reporting, interviewing techniques, and some specialized reporting. A laboratory class in which students write for the university student newspaper, *The Parthenon*, and its online edition; WMUL-FM, and "MU Report." (PR: JMC 102, 201)
- 302 Advanced Editing and Design. 3 hrs. I, II.**  
Advanced course in copy editing, headline writing, and design for daily, community, and public relations newspapers. Laboratory instruction and experience on the printed and online issues of the university newspaper, *The Parthenon*. (PR: JMC 241 and 301)
- 303 Sports News Reporting. 3 hrs.**  
In-depth news reporting on the sports beat, breaking news and analysis. (PR: JMC 201)
- 304 Computer-Assisted Reporting. 3 hrs. I.**  
Study and practice of research methods and writing techniques for in-depth and computer-assisted cross-media reporting on topical issues. (PR: JMC 301)
- 305 Copy Editing. 3 hrs.**  
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. (PR/CR: JMC 201)
- 321 Sportscasting. 3 hrs.**  
A "hands-on" course designed to develop announcing, interviewing and writing skills specifically as such skills relate to play-by-play techniques and practices.
- 330 Fundamentals of Public Relations. 3 hrs. I, II, S.**  
Public relations practices and techniques used by business, educational, industrial, governmental, and social organizations.
- 331 Radio-Television Announcing and Newscasting. 3 hrs. I, II.**  
Specialized training in the interpretive skills of announcing and newscasting. (PR: JMC 101)
- 332 Introduction to Video Production. 3 hrs. I, II.**  
Introduction to the fundamentals of video production, dealing with cameras, microphones, lighting, staging, field production, editing, post production. (PR: JMC 101)
- 334 Advanced Audio. 3 hrs. I.**  
Advanced theory and practice in audio production, with equal emphasis on writing and performance techniques for the documentary, public affairs, feature, and/or dramatic program. Laboratory work at WMUL-FM is required. (PR: JMC 231)
- 340 Basic Broadcast News. 3 hrs. I, II.**  
Introduction and overview of electronic journalism. Emphasis on broadcast writing. Students will report for Newscenter 88 WMUL-FM. (PR: Keyboarding proficiency, JMC 101, and JMC 102)
- 360 Digital Imaging for JMC. 3 hrs. I, II.**  
Methods of taking and editing still and video digital images for print, broadcast, and online publication. (PR: JMC 241 or an equivalent graphics course for all students except broadcast journalism and radio-television majors.)
- 372-373 Practice in Radio or Television. 1 or 2 hrs. I, II, S.**  
Staff responsibility on campus broadcast facilities. Capstone experience. (PR: Written permission before registration)
- 383 Advertising Layout and Design. 3 hrs. II.**  
Principles and practices in layout and design of advertising for all media. (PR: JMC 241; JMC 245 or MKT 341)
- 385 Advertising Media Planning. 3 hrs. II.**  
Planning and practice in allocating advertising budgets in the mass media to effectively reach the target audiences at the most reasonable cost. (PR: JMC 245 or MKT 341)
- 390 Media Sales and Underwriting. 3 hrs.**  
Introduction of 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.
- 400 Photojournalism II. 3 hrs.**  
A course in advanced techniques for newspaper and magazine photography, concentrating on creation, design and use of photo essays and picture stories. (PR: JMC 360 or ART 315)
- 402 Law of Mass Communications. 3 hrs. I, II, S.**  
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. (PR: Junior standing)
- 404 History of American Journalism and Mass Communications. 3 hrs. II.**  
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.

- 408 Strategic Communications Research. 3 hrs. I.**  
The course will include lectures, readings, discussions and projects on the resources and techniques used to obtain information by strategic communications decision-makers for advertising and public relations program planning.
- 409 Public Relations Research Methods. 3 hrs.**  
The course is designed to provide hands-on experience in collecting, interpreting, evaluating and reporting research valued in the field of public relations. Included: lectures, readings, discussions, and projects. (PR: JMC 330)
- 410 Magazine Editorial Practices. 3 hrs.**  
Study of the organization and functions of the magazine editorial department, with practice in planning magazine content, laying out pages and establishing production procedures. (PR: JMC 241)
- 414 Reporting Public Affairs. 3 hrs. II.**  
Advanced instruction in cross-media reporting in local, state, and federal government; politics, finance, labor, and social and environmental issues, with emphasis on background and interpretation. Course includes field trips and guest speakers. (PR: JMC 301)
- 415 Advertising Strategy and Execution. 3 hrs. I.**  
Analyzing advertising problems in a case study approach, proposing a strategic solution, and implementing the strategy. Students must write and produce advertisements for a variety of media. (PR: JMC 221; JMC 245 or JMC 341)
- 420 Electronic Media Management. 3 hrs.**  
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.
- 425 Advertising Campaigns. 3 hrs. II.**  
Students function as an advertising agency to plan, to prepare, and to present local and national advertising campaigns. Problems of the advertiser and the agency are considered. Capstone experience. (PR: JMC 383, 385, 415)
- 430 Magazine Article Writing. 3 hrs. I.**  
Fundamentals of researching and writing the popular, factual magazine article; techniques of selling articles to magazines (PR: Junior standing)
- 432 Corporate and Instructional Video. 3 hrs. S.**  
Development of the use of video communication and instruction in business, agencies, and education. Production and utilization of video units for specific objectives.
- 433 Radio-Television Programming. 3 hrs. II.**  
Principles of programming, including audience analysis, production, purchase, and scheduling of various formats. (PR: JMC 101)
- 434 Advanced Video. 3 hrs. II.**  
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)
- 435 Radio-Television Law and Regulation. 3 hrs. II.**  
Development and current status of the legal structure of broadcasting in the United States. (PR: JMC 101)
- 436 International Mass Communications. 3 hrs. II.**  
Development of various systems of mass communications and comparison with the United States.
- 437 Public Relations Writing. 3 hrs. I.**  
Theory and practice of various writing challenges encountered by public relations practitioners. Some consideration of publications design. (PR: JMC 201, 241 and 330)
- 438 Public Relations Case Studies. 3 hrs. I.**  
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: JMC 330)
- 439 Public Relations Campaign Management. 3 hrs. II.**  
Applying the four-step public relations process to an organization's program or campaign. Includes execution of public opinion research and development of original communication tools. Competitive agency model generally used. Capstone experience (PR: JMC 437 and 438)
- 440 Mass Communication Ethics. 3 hrs. I, II, S.**  
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. Capstone experience (PR: senior standing)
- 445 Advertising in Modern Society. 3 hrs.**  
An examination of current issues and problems affecting the advertising industry and a study of advertising's impact on and responsibility to society. (PR: Junior standing)
- 450 Contemporary Issues in Radio and Television. 3 hrs. II.**  
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: Junior standing)
- 451 Television Reporting. 3 hrs. I.**  
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 or CR: JMC 301)
- 452 Advanced TV Reporting. 3 hrs. II.**  
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. Capstone experience. (PR: JMC 451)
- 455 Women, Minorities and the Mass Media. 3 hrs. I.**  
A seminar that explores the portrayals and participation of women and people of color in the mass media.
- 461 Web Strategies. 3 hrs. I.**  
Examination of web strategies in news and strategic communication contexts. Includes online media trends, content development, ethical issues and best practices. (PR: Junior standing)
- 462 Web Design for Mass Media. 3 hrs. I, II.**  
Creative and practical aspects of typography, design and interactivity of online communications for the mass media. (PR: JMC 241)
- 465 Multimedia Reporting. 3 hrs.**  
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 360 and JMC 461 or 462)
- 470 Professional Practicum. 1-4 hrs. I, II, S.**  
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. (PR: JMC 301, 302, or permission of instructor)
- 475 Documentary Journalism. 3 hrs.**  
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. (PR: JMC 201 or 221, and JMC 360 or 332 or 432)

- 490 Journalism and Mass Communications Internship I. 1-3 hrs. I, II, S.**  
Supervised journalistic or mass communications work with professional media including newspapers, magazines, radio, television, advertising, and public relations departments and agencies. Conferences with instructor for guidance and evaluation. Advance arrangements must be made through the JMC internship director. Capstone experience.
- 491 Journalism and Mass Communications Internship II. 1-3 hrs. I, II, S.**  
Supervised journalistic or mass communications work with professional media including newspapers, magazines, radio, television, advertising and public relations departments or agencies. Advance arrangements must be made through the JMC internship director. Student must have completed a previous internship. Can't be used in hours required for graduation.

## **LATIN (LAT)**

- 101-102 First Year Latin. 3; 3 hrs. I, II.**  
(PR for Latin 102: LAT 101)
- 203-204 Intermediate Latin. 3; 3 hrs. I, II.**  
Varied readings including selections from Cicero's Orations and Vergil's Aeneid I-VI. (PR for Latin 203: LAT 102 or equivalent; PR for Latin 204: LAT 203 or equivalent)
- 250 Conversational Latin. 1 hr.**  
Introduction to basic skills of oral comprehension, composition, and pronunciation of Latin.
- 251 Conversational Latin II. 1 hr.**  
Introduction to basic skills of oral comprehension, composition and pronunciation of Latin. (PR: LAT 101)
- 252 Conversational Latin III. 1 hr.**  
Introduction to basic skills of oral comprehension, composition and pronunciation of Latin. (PR: LAT 101)
- 280-283 Special Topics. 1-4; 1-4; 1-4 hrs.**
- 303 Caesar's Commentaries. 3 hrs.**  
A close reading in Latin of the commentaries of Julius Caesar. (PR: LAT 204 or permission; CR: LAT 320)
- 308 Catullus. 3 hrs.**  
A close reading in Latin of the poetry of Catullus with consideration of its literary antecedents and its importance to Roman Literature. (PR: Latin 204 or permission)
- 311 Readings in Ovid. 3 hrs.**  
Close reading in Latin of selections from Ovid's erotic and epic poetry. (PR: LAT 204 or permission)
- 315 Sallust and Nepos. 3 hrs.**  
A close reading in Latin of selected works from Sallust and Nepos. (PR: LAT 204 or permission)
- 320 Latin Prose Composition: Caesar. 1 hr.**  
Study of Latin Prose Composition, the translation of English to Latin, with special reference to the style, syntax and vocabulary of Caesar. (CR: LAT 303)
- 321 Latin Prose Composition: Cicero. 1 hr.**  
Study of Latin Prose Composition, the translation of English to Latin, with special reference to the style, syntax and vocabulary of Cicero. (CR: LAT 305)
- 322 Latin Prose Composition: Livy. 1 hr.**  
Study of Latin Prose Composition, the translation of English to Latin, with special reference to the style, syntax and vocabulary of Livy. (CR: LAT 407)
- 323 Latin Prose Composition: Tacitus. 1 hr.**  
Study of Latin Prose Composition, the translation of English to Latin, with special reference to the style, syntax and vocabulary of Tacitus. (CR: LAT 410).
- 401 Cicero: Speeches. 3 hrs.**  
A close reading in Latin of one of the political or court speeches of Cicero. (PR: LAT 204 or permission; CR: LAT 321)
- 403 Roman Comedy. 3 hrs.**  
(PR: LAT 204 or permission)
- 404 Roman Elegy: Propertius and Tibullus. 3 hrs.**  
Close readings in Latin of selections from the elegies of Propertius and Tibullus. (PR: Latin 204 or permission)
- 405 Readings in Vergil. 3 hrs.**  
Introduction to the poetry of Vergil, especially Vergil's Aeneid, and to the culture and the ideology of the Augustan principate. (PR: Latin 204 or equivalent).
- 406 Horace: Odes, Epodes, Epistles. 3 hrs.**  
(PR: LAT 204 or permission)
- 407 Livy's History of Rome. 3 hrs.**  
A close reading in Latin of selections from Livy's History of Rome. (PR: LAT 204 or permission; CR: LAT 322)
- 408 Roman Epistolary Literature: Cicero and Pliny. 3 hrs.**  
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. (PR: Latin 204 or permission)
- 409 Roman Satire: Horace, Martial, Juvenal. 3 hrs.**  
Close readings in Latin of selections from the satires of Horace and Juvenal and the epigrams of Martial. (PR: Latin 204 or permission)
- 410 Tacitus (selections from): Annals, Agricola. 3 hrs.**  
A close reading in Latin of selections from the works of Tacitus. (PR: LAT 204 or permission; CR: LAT 323)
- 480-483 Special Topics in Latin. 1-4; 1-4; 1-4; 1-4 hrs. I, II.**  
(PR: LAT 204 or permission)
- 485-488 Independent Study. 1-4; 1-4; 1-4; 1-4 hrs.**  
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. (PR: LAT 204 or permission)
- 495H-496H Honors in Latin. 4; 4 hrs. I, II.**  
Open only to Latin majors of outstanding ability. See Honors Courses.
- 499 Latin Capstone Experience. I, II. 3 hrs.**  
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 LAT above LAT 204)

## **COLLEGE OF BUSINESS (LCOB)**

- 200 Career Exploration Skills for Business. 1 hr.**  
Students will develop skills to prepare themselves for internships and careers in business through resume writing, interviewing, and job search strategies.

- 300 Business Professionalism and Self Development 1 hr.**  
Students will enhance their knowledge of leadership skills and better understand professionalism in the business world through this course.

## **LEGAL ENVIRONMENT (LE)**

- 207 Legal Environment of Business. 3 hrs. I, II.**  
Law and the judicial system. The relationship of law, government, ethics and the consumer of business enterprise. The study of contracts, torts, government regulation of business, environmental and consumer protection.
- 308 Commercial Law. 3 hrs. I, II.**  
A continuation of Legal Environment 207. Emphasizes in-depth case study of the law of commercial paper, business organizations, security, and real and personal property. (PR: LE 207)
- 351 Legal Aspects of Health Care Organizations. 3 hrs. II.**  
A survey of basic legal problems facing a hospital administrator. The study also includes constitutional and administrative law issues dealing with medicaid and medicare and regional planning. (PR: LE 207)
- 366 Entrepreneurial Law & Ethics. 3 hrs.**  
Students will examine the basic legal and ethical issues involving the creation, maintenance, and expansion of small businesses.

## **MANAGEMENT (MGT)**

- 100 Introduction to Business. 3 hrs.**  
Career exploration and preparation. Emphasis on modern supervisory management techniques in various business fields.
- 150 Diversity Issues in Business. 3 hrs.**  
A study of risks, challenges, and opportunities of attracting and developing a diverse workforce and consumer base.
- 218 Business Statistics. 3 hrs. I, II.**  
Application of statistical techniques in business and economics. Topics include measures of central tendency and dispersion, theory of distributions, sampling distributions, estimation, hypotheses testing, correlation and regression analysis. (PR: MTH 123)
- 280-283 Special Topics. 1-4; 1-4; 1-4; 1-4 hrs.**
- 320 Principles of Management. 3 hrs. I, II.**  
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.
- 350 Health Care Organizations Management. 3 hrs. I.**  
An introduction to the management of health care organizations. (PR: MGT 320)
- 354 Health Care Delivery Systems. 3 hrs. II.**  
An examination of the various private and public sector health care delivery systems currently operating within the United States. (PR: MGT 350)
- 360 Introduction to Entrepreneurship. 3 hrs. I, II.**  
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. (PR: MGT 320)
- 370 Energy Management Principles. 3 hrs.**  
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. (PR: MGT 320)
- 380 Principles of Renewable Energy. 3 hrs.**  
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. (PR: MGT 320)
- 419 Business and Society. 3 hrs. I, II.**  
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. (PR: MGT 320)
- 420 Operations Management. 3 hrs. I, II, S.**  
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. (PR: MGT 218, MTH 203)
- 422 Organizational Behavior. 3 hrs. I, II.**  
Problems, methods, and analysis of various theories of behavior within organizations for purposes of integration and generalization. Emphasis will be upon the identification and investigation of the schools of thought concerning the behavioral sciences. (PR: MGT 320)
- 423 Organizational Development. 3 hrs. I, II.**  
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. Capstone Course. (PR: MGT 320, ACC 216)
- 424 Human Resource Management. 3 hrs. I, II.**  
Analyze the role of human resource managers within strategic decision making. Topics include selection, training, assessment, compensation, and employee relations. Current topics also covered. (PR: MGT 320)
- 425 Industrial Relations. 3 hrs. I, II.**  
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. (PR: MGT 320)
- 428 Negotiations. 3 hrs.**  
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. (PR: MGT 320)
- 429 Leadership. 3 hrs.**  
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. (PR: MGT 320)
- 445 International Management. 3 hrs.**  
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. (PR: MGT 320)
- 446 Green Management. 3 hrs.**  
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. (PR: MGT 320)
- 458 Energy Management Strategy. 3 hrs.**  
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 with the transforming energy sectors. (PR: FIN 370, LE 308, MGT 370)



- 460 Strategic Management. 3 hrs. I, II, S.**  
The integrative capstone course concerning theory and practice of top managements' plan to attain outcomes consistent with the organization's mission and goals including strategy formulation, implementation and control. Capstone course. (PR: MGT 320, MKT 340, FIN 323, LE 207, MGT 218, Senior Standing)
- 461 New Venture Dynamics. 3 hrs.**  
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. (PR: MGT 360)
- 471 Health Care Practicum I. 4 hrs. CR/NC. S.**  
Field experience in management of Health Care Operations. (PR: Permission of Division Head)
- 472 Health Care Practicum II. 4 hrs. CR/NC. S.**  
Field experience in management of Health Care Organizations. (PR: MGT 471)
- 480-483 Special Topics. 1-4; 1-4; 1-4; 1-4 hrs.**  
Study of an advanced topic not normally covered in other courses. Management majors only, with permission of Division Head.
- 485-488 Independent Study. 1-4; 1-4; 1-4; 1-4 hrs.**
- 490 Internship. 3-12 hrs. C/NC**  
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. (PR: Permission of Division Head)

## MANAGEMENT INFORMATION SYSTEMS (MIS)

- 200 Computer Applications in Business. 3 hrs.**  
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.
- 290 Principles of Management Information Systems. 3 hrs. I, II.**  
Introduction to the development, selection, use, and impact of information and communication technologies and systems in modern organizations and enterprises.
- 300 Introduction to Business Programming. 3 hrs. I, II.**  
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)
- 307 Advanced Business Programming. 3 Hrs. I, II.**  
Builds upon the business programming introduction with an emphasis on distributed, data-driven applications and higher order data structures. (PR: MIS 300)
- 310 Business System Analysis and Design. 3 hrs. II.**  
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.
- 333 Business Telecommunication Systems. 3 hrs. I, II.**  
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.
- 340 Introduction to Database Management Systems. 3 hrs. I, II.**  
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.
- 350 E-Commerce Systems. 3 hrs. I, II.**  
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)
- 360 Introduction to Business Intelligence and Analytics. 3 hrs.**  
Introduction to the field of business intelligence and analytics, introducing the use of big data, statistical, quantitative analysis, exploratory and predictive models, and fact-based management to drive decisions and actions. (PR: MGT 218, MIS 290; CR: MIS 340)
- 411 Applied Business System Analysis and Design. 3 hrs.**  
This course extends the concepts and techniques in MIS 310 to enable students to design and implement systems in a business environment. The implementation of a computer application will be required.
- 412 Enterprise Systems. 3 hrs.**  
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)
- 415 Emerging Information and Communication Technologies. 3 hrs.**  
A study of emerging information and communication technologies in a business and organizational context. (PR: MIS 290 or permission of COB advising office)
- 420 Information Security Management. 3 hrs.**  
A study of information security risk analysis and assessment; threats to information security; defense measures; and legal, privacy, and ethical issues in information security.
- 433 Advanced Telecommunications and Networks. 3 hrs.**  
An advanced study of the design, implementation and operation of voice, data, video networks using digital and analog technologies. (PR: MIS 333)
- 444 Advanced Database Management Systems. 3 hrs.**  
Enterprise database administration; issues surrounding database implementation, security, ethics, distributed databases, and advanced language features using a database management system. (PR: MIS 340)
- 450 E-Commerce Systems Management. 3 hrs.**  
Modeling electronic business systems. Identifying requirements, conceptual and logical design, user interface and data management. Integration with internal and external systems.
- 465 Business Decision Support Systems. 3 hrs.**  
A study of decision support systems (DSS) in terms of building and providing end-user support for managerial decision making. Advanced topics will include computer interface design and artificial intelligence.
- 460 Advanced Business Intelligence and Analytics. 3 hrs.**  
An advanced study of business intelligence and analytics, the use of big data, statistical, quantitative analysis, exploratory and predictive models, and fact-based management to drive decisions and actions. (PR: MIS 360; CR: MIS 444 and MGT 420)
- 470 Business Systems Project Management. 3 hrs. II.**  
Project management for information and process-oriented organizational systems. Tools, techniques, feasibility, post-project evaluation, information and knowledge exchange, change and vendor management. (PR: MIS 290 or permission of COB advising office)
- 475 Strategic Management Information Systems. 3 hrs. II.**  
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. Capstone course (CR: MIS 470)

- 476 Business Intelligence and Analytics Project. 3 hrs.**  
A capstone project in business intelligence and analytics. Principles of business intelligence and analytics as applied to the development of a comprehensive, multi-disciplinary, business intelligence and analytics project. (PR: MIS 460)
- 480-483 Special Topics. 1-4; 1-4; 1-4. 1-4 hrs.**  
Study of an advanced topic not normally covered in other courses. Management Information Systems majors only, with permission of division head.
- 485-488 Independent Study. 1-4; 1-4; 1-4. 1-4 hrs.**
- 490 Internship. 3-12 hrs. CR/NC.**  
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. (PR: permission of division head)

## MARKETING (MKT)

- 231 Principles of Selling. 3 hrs. I, II.**  
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.
- 340 Principles of Marketing. 3 hrs. I, II, S.**  
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.
- 341 Integrated Marketing Communications. 3 hrs. I, II.**  
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. (PR: MKT 340)
- 344 Retail Management. 3 hrs. I, II.**  
Overview of retailing (store and non-store sales to consumers) to familiarize students with such topics as buying, selling, location, store design, display, promotion, pricing, inventory control, staffing and retailing strategy. (PR: MKT 340, ACC 215)
- 349 Principles of Domestic Transportation. 3 hrs.**  
Introduction to the history, economics, and regulation of U.S. domestic motor, rail, water, air and pipeline transportation. Particular emphasis is placed upon the significance of transportation to the development of the United States and today's economy.
- 350 Supply Chain Logistics. 3 hrs.**  
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.
- 371 International Marketing. 3 hrs. I, II, S.**  
A study of marketing across national borders. Emphasis is placed on foreign environments, methods of entry, and marketing mix development, including the conflict between standardization and adaptation. (PR: MKT 340)
- 375 Business to Business Marketing. 3 hrs.**  
Study of marketing products and services to business, institutions, and government. Focus on organizational buying, market planning, and development of marketing mix.
- 414 Purchasing and Inventory Control. 3 hrs.**  
In-depth analysis of procurement function, problems and techniques. Maintenance of proper inventory level, ordering methods, and product management at both the retail and industrial levels.
- 435 Internet Marketing. 3 hrs.**  
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 marketing mix. (PR: MKT 340)
- 437 Consumer Behavior. 3 hrs. I, II.**  
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 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.
- 440 Sales Management. 3 hrs. I, II.**  
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)
- 442 Market Research. 3 hrs. I, II.**  
Scope and importance of market and distribution research; product, package, brand analysis and social impact; consumer, industrial and institutional survey, quantitative and qualitative analysis of market data; situation analysis, sampling, tabulation and presentation methods. (PR: MKT 340, MGT 218)
- 445 Services Marketing. 3 hrs.**  
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.
- 449 Transportation Law and Public Policy. 3 hrs. I.**  
Comprehensive review of the regulation of carriers and transportation in general. Comparison of the principal transportation regulatory acts, functions of the procedure before the several regulatory commissions.
- 465 Marketing Management. 3 hrs. I, II.**  
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. Capstone course. (PR: MKT 340, ACC 215, MKT 437)
- 480-482 Special Topics. 1-4; 1-4; 1-4 hrs.**  
Study of an advanced topic not normally covered in other courses. Marketing majors only, with permission of division head.
- 485-486 Independent Study. 1-4; 1-4; 1-4 hrs.**
- 490 Internship. 3-12 hrs. CR/NC.**  
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. (PR: Permission of Division Head)

## MATHEMATICS (MTH)

- 098 Basic Skills in Mathematics I. 3 or 4 hrs.**  
This course prepares students with low placement scores for the second level of the mathematics skills sequence. (PR: Math ACT < 17)
- 099 Basic Skills in Mathematics II. 3 hrs.**  
The purpose of this course is to adequately prepare students with low placement test scores to take college level mathematics courses required in their program of study. (PR: Math ACT 17, 18 or MTH 098)



- 121 Concepts and Applications of Mathematics (CT). 3 hrs.**  
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 modeling, and financial concepts. (PR: MTH 099 or Math ACT 19 or above)
- 122 Plane Trigonometry. 3 hrs.**  
A study of the trigonometric functions, graphs of the trigonometric functions, identities, equations, inverse trigonometric functions, vectors, complex numbers, and applications. (PR: Math ACT 21 or MTH 127 or MTH 130 concurrent)
- 125 Mathematical Thinking (CT). 3 hrs.**  
A critical thinking course for non-science majors. Topics include number systems, sequences, modular arithmetic, deductive arguments, linear programming, techniques of problem-solving, and history of mathematics. (PR: MTH 099 or Math ACT 19 or above)
- 127 College Algebra - Expanded Version. 5 hrs.**  
A brief but careful review of the main techniques of algebra. Polynomial, rational, exponential, and logarithmic functions. Graphs, equations and inequalities, sequences. (PR: MTH 099 or Math ACT 19 or 20)
- 130 College Algebra. 3 hrs.**  
Polynomials, rational, exponential, and logarithmic functions. Graphs, equations and inequalities, sequences. (PR: Math ACT 21 or above)
- 132 Precalculus with Science Applications. 5 hrs.**  
Functions used in calculus including polynomial, rational, exponential, logarithmic, and trigonometric. Systems of equations and inequalities, conic sections, polar parametric equations, sequences and series. Binomial Theorem. (PR: Math ACT 24 or above, or C or better in MTH 127 or C or better in MTH 130)
- 140 Applied Calculus. 3 hrs.**  
A brief survey of calculus including both differentiation and integration with applications. Not to be substituted for MTH 229 or MTH 203. (PR: C or better in MTH 127 or C or better in MTH 130 or Math ACT 24 or above)
- 140H Applied Calculus Honors. 3 hrs.**  
A brief survey of calculus including both differentiation and integration with applications. This honors course will also introduce topics from differential equations with applications.
- 220 Discrete Structures. 3 hrs.**  
Sets, relations, directed and undirected graphs, monoids, groups, lattices, Boolean algebra, and propositional logic. (PR: Math ACT 27 or C or better in MTH 132 or C or better in IST 131 or C or better in MTH 229)
- 225 Introductory Statistics. 3 hrs.**  
Basic probability, descriptive statistics, fundamental statistical inference procedures involving estimation and hypothesis testing for a variety of situations with wide applications. (PR: Math ACT 21 or C or better in MTH 121 or higher)
- 229 Calculus with Analytic Geometry I (CT). 5 hrs.**  
An introduction to calculus and analytic geometry, emphasizing critical thinking. Limits, derivatives, and integrals of the elementary functions of one variable, including the transcendental functions. (PR: MTH ACT of 27 or above, or C or better in MTH 132)
- 229H Calculus with Analytic Geometry I (Honors) (CT). 5 hrs.**  
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. (PR: Math ACT 30 or higher)
- 230 Calculus with Analytic Geometry II. 4 hrs.**  
Applications of the integral, techniques of integration, and infinite series. A study of conic sections, polar coordinates, and parametric equations. (PR: C or better in MTH 229 or C or better in IST 230)
- 231 Calculus with Analytic Geometry III. 4 hrs.**  
Vectors, curves, and surfaces in space. Derivatives and integrals of functions of more than one variable. A study of the calculus of vector valued functions. (PR: C or better in MTH 230)
- 280-283 Special Topics. 1-4; 1-4; 1-4; 1-4 hrs.**  
(PR: Permission of the chairman)
- 300 Introduction to Higher Mathematics. 4 hrs.**  
A transition between elementary calculus and higher mathematics with emphasis on techniques of proof. (PR: C or better in MTH 230)
- 326 Applied Statistical Methods. 3 hrs.**  
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. (PR: C or better in MTH 225)
- 329 Elementary Linear Algebra. 3 hrs.**  
Systems of linear equations, matrices and determinants, vector spaces, linear transformations, eigenvalues, eigenvectors, and applications. (PR: ACT 27 or SAT 610 or IST 131 or MTH 132 or MTH 229)
- 331 Linear Algebra. 4 hrs.**  
Vector spaces, matrices and determinants, systems of linear equations, linear transformations, eigenvalues, eigenvectors, and applications. (PR or CR: C or better in MTH 300)
- 335 Differential Equations. 4 hrs.**  
First and second-order ordinary differential equations. Applications include vibrations and electrical circuits. Laplace transform, approximate solutions, orthogonal functions, Fourier series; partial differential equations including heat, wave, and Laplace equations. (PR: C or better in MTH 231 and REC: MTH 331 or MTH 329)
- 345 Applied Probability and Statistics. 3 hrs.**  
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. (CR/PR: MTH 230 or IST 230)
- 400 Structure of Algebra. 3 hrs.**  
Informal development of modern elementary algebra. Recommended for pre-service middle school teachers and for elementary and secondary in-service teachers. May not be used for either a 5-12 mathematics specialization or for any degree offered by the Mathematics Department. (PR: MTH 130 or equivalent)
- 401 Structure of Modern Geometry. 3 hrs.**  
Informal development of geometry with an exploration of probability and statistics. Recommended for pre-service middle school teachers and for elementary and secondary in-service teachers. May not be used for either a 5-12 mathematics specialization or for a degree offered by the Mathematics Department. (PR: MTH 130 or equivalent)
- 404 Mathematics Methods and Materials. 3 hrs.**  
Content and content-specific pedagogy for secondary mathematics education majors. (CR/PR: CI 470 / Admin. 5)
- 405 History of Mathematics. 3 hrs.**  
A study of the history of mathematics from the time of the ancient Greeks to the end of the nineteenth century. (PR: C or better in MTH 300)
- 411 Mathematical Modeling. 3 hrs.**  
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. (PR: C or better in MTH 231)

- 412 Regression Analysis. 3 hrs.**  
Topics in 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. (PR: One previous course in statistics and some familiarity with calculus and linear algebra, or permission of instructor)
- 413 Experimental Designs. 3 hrs.**  
Principles of experimentation; analysis of variance and covariance; latin square and related designs; factorial designs, response surface; robustness; nested and split-plot designs. (PR: One previous course in statistics and some familiarity with calculus and linear algebra, or permission of instructor)
- 415 Partial Differential Equations. 3 hrs.**  
Elementary partial differential equations. Heat equation, Laplace equation, separation of variables, Fourier series, vibrating strings, eigenvalue problems, finite differences, Bessel functions, Legendre polynomials. (PR: C or better in MTH 331 and C or better in MTH 335)
- 416 Advanced Differential Equations. 3 hrs.**  
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. (PR: C or better in MTH 330 and C or better in MTH 335)
- 420 Nonparametric Methods. 3 hrs.**  
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. (PR: One previous course in statistics and some familiarity with calculus and linear algebra, or permission of instructor)
- 422 Time Series Forecasting. 3 hrs.**  
Finding statistical models to represent various time-dependent phenomena and processes; coverage of a variety of forecasting techniques, with emphasis on adaptive, regression, and Box-Jenkins procedures. (PR: MTH 230, or permission of instructor)
- 425 Sampling Design and Estimation. 3 hrs.**  
Coverage of the theory and applications of a variety of sampling designs, sample size determination; ratio and regression estimated comparisons among the designs. (PR: MTH 326 or permission of instructor)
- 427 Advanced Calculus I. 3 hrs.**  
A rigorous study of the real number system, continuity and differentiability of functions of a single variable, integration of functions of a single variable, infinite series. (PR: C or better in MTH 231 and C or better in MTH 300 and CR/PR: MTH 331)
- 428 Advanced Calculus II. 3 hrs.**  
A rigorous development of algebra and topology of Euclidean spaces, differentiability and integrability of functions of several variables. (PR: C or better in MTH 427)
- 430 Topology I. 3 hrs.**  
First course in topology. Basics of point-set topology: metric and topological spaces, continuity, connectedness, compactness, products, quotients. Surfaces and simplicial complexes, Euler characteristics. (PR: C or better in MTH 300)
- 431 Topology II. 3 hrs.**  
First course in algebraic topology. Homotopy, fundamental group, simplicial homology. (PR: MTH 430, MTH 450)
- 440 Graph Theory and Combinatorics. 3 hrs.**  
The course is designed to introduce students in mathematical sciences to the theorems, techniques and applications of graph theory and combinatorics. (PR/CR: C or better in MTH 300)
- 442 Numerical Linear Algebra. 3 hrs.**  
Direct and iterative methods for numerical solution of linear systems of equations. Eigenvalues and eigenvectors. Error analysis and norms. Related topics and applications. (PR: C or better in MTH 331 and a programming language. REC: MTH 443)
- 443 Numerical Analysis. 3 hrs.**  
Computer arithmetic, roots of equations, interpolation, linear systems, and numerical differentiation and integration. Analysis of errors in and convergence properties of algorithms. Computer implementation of methods. (PR: C or better in MTH 331 and a programming language)
- 445 Probability and Statistics I. 3 hrs.**  
Probability spaces, conditional probability, and applications. Random variables, distributions, expectation, and moments. (PR: C or better in MTH 231)
- 446 Probability and Statistics II. 3 hrs.**  
Statistical inference: estimation of parameters, tests of hypotheses. Regression, analysis of variance. (PR: C or better in MTH 445)
- 448 Modern Geometries. 3 hrs.**  
Finite geometries, basic background material for the modern development of Euclidean Geometry, other geometries. (PR: C or better in MTH 300)
- 449 Projective Geometry. 3 hrs.**  
Projective geometry using both synthetic and algebraic methods. (PR: C or better in MTH 300)
- 450 Modern Algebra I. 3 hrs.**  
Structure of the abstract mathematical systems: fields, rings, groups, with illustrations and applications from number theory. (PR: C or better in MTH 300 and PR/CR: C or better in MTH 331)
- 452 Modern Algebra II. 3 hrs.**  
Continuation of MTH 450. (PR: C or better in MTH 450)
- 455 Number Theory. 3 hrs.**  
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. (PR: C or better in MTH 300)
- 460 Complex Variables I. 3 hrs.**  
Complex numbers, analytic functions, properties of elementary functions, integrals, series, residues and poles, conformal mapping. (PR: C or better in MTH 231)
- 461 Complex Variables II. 3 hrs.**  
Continuation of MTH 460. (PR: C or better in MTH 460)
- 464 Statistical Computing. 3 hrs.**  
Introduction to the commonly used statistical computing techniques, procedure and methods, with extensive use of R language and environment, and SAS for statistical computing and graphics. (PR: MTH 445 or MTH 446)
- 466 Stochastic Processes. 3 hrs.**  
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. (PR: MTH 231 and MTH 445)
- 480-483 Special Topics. 1-4; 1-4; 1-4; 1-4 hrs.**  
Courses on special topics not listed among the current offerings. (PR: Permission of the Chairman of the Department of Mathematics and permission of instructor)
- 485-488 Independent Study. 1-4; 1-4; 1-4; 1-4 hrs.**
- 490 Internship in Mathematics. 2-12 hrs.**  
A supervised internship in an area of mathematics, applied mathematics, or statistics. By permission only. (PR: MTH 300 and permission)

- 491 Senior Seminar. 2 hrs.**  
Capstone experience in reading, doing, writing and speaking mathematics. Students will explore topics related to a theme chosen by the instructor. (PR: Permission)

## **MEDICAL IMAGING (MI)**

- 201 Introduction to Radiography. 3 hrs.**  
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. (PR: BSC 228, CHM 203, MTH 121 or higher, PHY 101, admission to the MI program)
- 202 Patient Care in Imaging Science. 3 hrs.**  
Content is designed to identify the role of the radiographer in patient care, including consideration of the physical and psychological needs of the patient and family. (CR: MI 203, 204, 205, 206; PR: BSC 228, MI 201, admission to the MI program)
- 203 Ethical & Legal Principles in Imaging Science. 2 hrs.**  
Content is designed to provide a fundamental background in legal issues and ethical practice including the ARRT Code of Ethics and Practice Standards. (CR: MI 202, 204, 205, 206; PR: Admission to the MI program)
- 204 Radiographic Anatomy. 3 hrs.**  
Content is designed to introduce the student to radiographic anatomy. Emphasis is placed on identifying structures visible on correctly performed radiographic procedures. (CR: MI 202, 203, 205, 206; PR: BSC 228, admission to the MI program)
- 205 Imaging Procedures I. 4 hrs.**  
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. (CR: MI 202, 203, 204, 206; PR: BSC 228, admission to the MI program)
- 206 Clinical Practice I. 4 hrs.**  
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. (CR: MI 202, 203, 204, 205; PR: Admission to the MI program)
- 207 Imaging Procedures II. 4 hrs.**  
Content is designed to provide the knowledge base necessary to perform special imaging procedures and basic computed tomography. (CR: MI 208, 209, 210, 211; PR: MSC 228, MI 206, admission to the MI program)
- 208 Pharmacology & Drug Administration for Imaging Science. 2 hrs.**  
Content is designed to provide basic concepts of pharmacology including delivery of and pharmacodynamics associated with imaging contrast media. (CR: MI 207, 209, 210, 211; PR: BSC 227, MI 206, BCLS, admission to the MI program)
- 209 Introduction to Imaging Equipment. 3 hrs.**  
Content is designed to provide in radiographic, fluoroscopic, mobile and tomographic equipment requirements and design. (CR: MI 207, 208, 210, 211; PR: MTH 121 or higher, PHY 101, PHY 101L, admission to the MI program)
- 210 Clinical Practice II. 4 hrs.**  
Content is designed to provide the knowledge base necessary to perform standard imaging procedures. Students will begin clinical rotations in computed tomography. (CR: MI 207, 208, 209, 211; PR: MI 206, admission to the MI program)
- 211 Seminar in Imaging Science. 1 hr.**  
Introduces student to current research in imaging science. Emphasis will be on oral communication via power point presentations. (CR: MI 207, 208, 209, 210; PR: Admission to the MI program)
- 212 Seminar in Imaging Sciences II. 1 hr.**  
Seminar on new and emerging technologies in imaging sciences.
- 301 Clinical Practice III. 10 hrs.**  
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. (CR: MI 210, admission to MI program)
- 302 Principles of Radiation Physics. 3 hrs.**  
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. (CR: MI 303, 304, 305, 306. PR: CHM 203, PHY 101, PHY 101L, MTH 121 or higher, MI 209, admission to MI program)
- 303 Image Acquisition & Processing. 3 hrs.**  
Introduces student to the factors that govern the image production process. (CR: MI 302, 304, 305, 306; PR: MTH 121 or higher, MI 209, admission to MI program)
- 304 Radiographic Pathology. 3 hrs.**  
Introduces student to concepts related to disease and etiological considerations with emphasis on radiographic appearance of disease and impact on exposure factor selection. (CR: MI 302, 303, 305, 306; PR: BSC 228, MI 204, admission to MI program)
- 305 Clinical Practice IV. 4 hrs.**  
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. (CR: MI 302, 303, 304, 306; PR: MI 301, admission to MI program)
- 306 Seminar in Imaging Science. 1 hr.**  
Introduces student to current research in imaging science. (CR: MI 302, 303, 304, 305; PR: Admission to MI program)
- 307 Radiation Protection & Radiobiology. 3 hrs.**  
Introduces student to principles of radiation protection and radiobiology including the responsibilities of the radiographer for patients, personnel and the public. (CR: MI 308, 309, 310; PR: BSC 228, CHM 203, MI 302, admission to MI program)
- 308 Radiographic Image Analysis. 2 hrs.**  
Content is designed to provide a basis for analyzing and critiquing radiographic images. (CR: MI 307, 309, 310; PR: MI 208, 303, 304; admission to MI program)
- 309 Digital Image Acquisition & Display. 2 hrs.**  
Content is designed to impart an understanding of the components, principles and operation of digital imaging systems found in diagnostic radiography. (CR: MI 307, 308, 310; PR: MI 303, admission to the MI program)
- 310 Clinical Practice V. 4 hrs.**  
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. (CR: MI 307, 308, 309; PR: MI 210, 301, 305; admission to MI program)
- 311 Seminar in Imaging Sciences III. 1 hr.**  
Seminar on new and emerging technologies in imaging sciences.
- 312 Abdominal Sonography I. 3 hrs.**  
This course covers basic abdominal sonographic positioning and scanning protocols, as they relate to normal anatomy of the abdomen. Laboratory included.
- 313 Ultrasound Physics I. 3 hrs.**  
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.

- 314 Clinical Practice I Sonography. 4 hrs.**  
Clinical practice experiences are design for sequential development, application, critical analysis, integration, synthesis and evaluation of concepts and theories in the performance of sonographic procedures.
- 315 Small Parts Sonography. 3 hrs.**  
This course covers anatomy, positioning and scanning protocol of the superficial structures.
- 316 Abdominal Sonography II. 3 hrs.**  
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. (PR: MI 312)
- 317 Ultrasound Physics II. 3 hrs.**  
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.
- 318 Vascular Sonography I. 4 hrs.**  
Discussion of vascular disease, duplex aminations wth compaison to arteriography, as it pertains to venous and visceral vascular examinations. Laboratory included.
- 319 Clinical Practice II Sonograph. 4 hrs.**  
Clinical practice experiences are designed for sequential development, application, critical analysis, integration, synthesis and evaulation of concepts and theories in the performance of sonographic procedures.
- 401 Seminar in Imaging Science. 1 hr.**  
Review seminar for the primary ARRT certification examination. (PCR: Admission to MI program)
- 402 Quality Management. 3 hrs.**  
Advanced practice course in the quality assurance (QA) and quality management (QM) process for imaging sciences. (PR: Senior status or ARRT certification)
- 403 Advanced Practice in Medical Imaging. 3 hrs.**  
Core theory requirement for all advanced practice students focused on discussion of communication, human diversity, health care policy, legal issues and patient information management. (PR: Senior status or ARRT certification)
- 404 Advanced Sectional Anatomy. 3 hrs.**  
Provides students enrolled in CT/MRI advanced practice track advanced knowledge of sectional anatomy. (CR: MI 405, 407; PR: Senior status or ARRT certification)
- 405 CT Procedures & Equipment. 3 hrs.**  
Focus on advanced patient care skills including ACLS, imaging procedures and equipment in Computed tomography. (CR: MI 404, 408; PR: Senior status or ARRT certification)
- 406 MRI Procedures & Equipment. 3 hrs.**  
Focus on advanced patient care skills including ACLS, imaging procedures and equipment in Computed tomography. (CR: MI 404, 408; PR: Senior status or ARRT certification)
- 407 Cardiovascular Anatomy & Physiology. 3 hrs.**  
Focus on advanced cardiovascular anatomy, physiology and pathophysiology including heart anatomy, coronary, systemic, pulmonary, peripheral and cerebral circulation. (CR: MI 408; PR: Senior status or ARRT certification)
- 408 Cardiovascular/Interventional Imaging Procedures & Equipment. 3 hrs.**  
Focus is on advanced patient care skills including ACLS, procedures and equipment utilized in cardiovascular and vascular/interventional imaging. (CR: MI 407; PR: Senior status or ARRT certification)
- 409 Advanced Clinical Practice. 4 hrs.**  
Students will arrange clinical experience in selected imaging modality to gain competency in clinical procedures required to sit for post-primary ARRT certification exams. (CR: Variable; PR: Senior status or ARRT certification)
- 410 Research in Medical Imaging. 3 hrs.**  
Capstone Course. Research methods and information literacy. (CR: Variable; PR: Statistics, senior status or ARRT certification)
- 411 Transcultural Healthcare. 3 hrs.**  
Multidisciplinary approach to transcultural heathcare. Course will utilize comparative ethnography and provide a theoretical framework for organizing and interpreting information about health. (CR: Variable; PR: Permission of instructor)
- 412 Radiography Management I. 3 hrs.**  
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 offereed by the AHRA.
- 413 Radiography Management II. 3 hrs.**  
Continuation of MI 412 to provide radiographer with management principles and preparation for the AHRA certification exam in radiography management.
- 414 Mammography. 3 hrs.**  
Introduction to medical imaging of the breast. Focus is to prepare student for advanced certification exam in mammography.
- 415 RIS and PACS Principles. 3 hrs.**  
Course content provides basic knowledge of digital storage systems, computer networking, radiology information systems (RIS), and picture archiving and communication systems (PACS).
- 416 Obstetrical Sonography I. 3 hrs.**  
This course covers basic obstetrical sonographic positioning and scanning protocols, as they relate to normal anatomy of the fetus.
- 417 Gynecological Sonography I. 3 hrs.**  
This course presents a study of anatomy and physiology of the nongravid and first trimester pelvis.
- 419 Clinical Practice III Sonography. 4 hrs.**  
Clinical practice experiences are designed for sequential development, application, critial analysis, integration, synthesis and evaluation of concepts and theories in the performance of sonographic procedures.
- 416 Obstetrical Sonography II. 2 hrs.**  
This course focuses on sonographic techniques in high-risk pregnancies and fetal abnormalities.
- 421 Gynecological Sonography II. 3 hrs.**  
This course presents a study of pathology of the nongravid and first trimester pelvis.
- 422 Clinical Practice IV Sonography. 4 hrs.**  
Clinical practice experiences are designed for sequential development, application, critical analysis, integration, synthesis and evaluation of concepts and theories in the performance sonographic procedures.
- 424 Vascular Sonography II. 3 hrs.**  
Discussion of vascular pathology and the use of plethysmography techniques in sonography.
- 485-488 Independent Study. 1-4 hrs.**  
Course designed to allow student to pursue individual research in medical imaging. (PR: senior status or permission)



## MEDICAL LABORATORY TECHNICIAN (See Clinical Laboratory Sciences)

## MEDICAL TECHNOLOGY (See Clinical Laboratory Sciences)

## MILITARY SCIENCE (MS)

- 101 Foundations of Officership. 1 hr. I.**  
Increase self-confidence through team study and activities in physical fitness, land navigation, first aid, and basic drill. Learn fundamental concepts of leadership in both classroom and outdoor laboratory environments. (CR: MS 101L)
- 101L-102L Military Science Basic Course Leadership Laboratory I. 1 hr. I, II.**  
Learn and practice basic soldier skills and field craft. Build self-confidence and team building leadership skills through activities in drill, repelling and basic marksmanship that can be applied throughout life. (CR: MS 101 and 102)
- 102 Basic Leadership. 2 hrs. II.**  
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. (CR: MS 102L, PR: MS 101 or departmental permission)
- 201 Individual Leadership Studies. 2 hrs. I.**  
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, land navigation and basic tactics. (CR: 201L; PR: MS 102 or departmental permission)
- 202 Leadership and Teamwork. 2 hrs. II.**  
Introduction to individual and team military tactics in squad operations. Includes: communications, safety assessments, movement techniques, planning for safety/security, training management, and methods of preoperational checks. (CR: MS 202L, PR: MS 201 or departmental permission)
- 201L-202L Military Science Basic Leadership Lab II. 1 hr. I, II.**  
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. CR: MS 201 and 202)
- 211 Ranger Operations and Techniques. 2 hrs. I.**  
Provides an overview of U.S. Army Ranger history, organization, and mission. Small unit tactics, leadership, patrolling techniques, marksmanship, repelling, and land navigation.
- 216 Application of Marksmanship Fundamentals. 2 hrs. I, II.**  
Teaches the fundamentals of rifle marksmanship in a competitive environment through the use of competition grade air rifles. Students learn shooting techniques, safety, range operations and competitive shooting skills.
- 251 Camp Challenge. 6 hrs. S.**  
This course is a five-week camp consisting primarily of applicatory training conducted during the summer at Fort Knox, Kentucky. It is designed to replace the first two years of on-campus ROTC training. Students who successfully complete the course are eligible to enter advanced military science training with departmental permission.
- 301 Leadership and Problem Solving. 3 hrs. I.**  
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. (CR: MS 301L, PR: MS 101, 102, 201 and 202 or MS 251 or department permission)
- 301L-302L Advanced Course Leadership Lab III. 1; 1 hr. I, II.**  
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. (PR: MS 301/302)
- 302 Leadership and Ethics. 3 hrs. II.**  
Analyze tasks; prepare written/oral guidance; delegate, and supervise. Plan for and adapt to the unexpected under stress. Examine and apply lessons from leadership cases studies, study ethical decision making. (PR: MS 301/ 301L; CR: MS 301L)
- 351 Summer Training Camp. 6 hrs. (non-resident) S.**  
A five-week camp at Fort Lewis, Washington; it is highly structured and demanding, stressing leadership at small unit levels under varying, challenging conditions. Individuals are evaluated throughout camp. (PR: MS 302)
- 401 Leadership and Management. 3 hrs. I.**  
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. (PR: MS 302; CR: MS 401L)
- 401L-402L Advanced Course Leadership Lab IV. 1 hr. I, II.**  
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. (CR: MS 401, 402)
- 402 Officership. 3 hrs. II.**  
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. (PR: MS 401/401L; CR: MS 402L)

## MINE SAFETY (MSF)

- 397 Mining and Industrial Hygiene Sciences. 3 hrs. I or II.**  
Algebra, chemistry, human anatomy and physiology as applicable to Industrial Hygiene calculations; hazards encountered and physiological systems affected. (PR: CHM 212 or equivalent)
- 410 Survey of Mining. 3 hrs.**  
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.
- 411 Mine Safety Program Analysis. 3 hrs.**  
This course prepares the participant for the effective analysis of safety programs and provides some specific applications in the mining environment.
- 412 Mine Safety and Health Legislation. 3 hrs.**  
A survey of the legislation that has affected safety and health in mining with special emphasis of the Federal Mine Safety and Health Act of 1977.
- 413 Mine Safety and Health Management. 3 hrs.**  
This course covers the principles, functions and philosophies of mine management.
- 414 Hazards Control in Mining. 3 hrs.**  
A study of how to recognize accident potential throughout the mining industry.
- 480-483 Special Topics. 1-4; 1-4; 1-4; 1-4 hrs.**  
A study of special topics not offered in regularly scheduled courses.

- 485-488 **Independent Study. 1-4; 1-4; 1-4; 1-4 hrs.**  
 491-494 **Workshop (Selected Topics). 1-4; 1-4; 1-4; 1-4 hrs.**

## MODERN LANGUAGES (MDL)

- 100 **Culture and Language (CT). 3 hrs.**  
 In this course students will study the interaction between culture and language from an international/multicultural perspective and will work to achieve reflective judgment about cultures/beliefs.
- 280-283 **Special Topics.**  
 Beginning and intermediate study of a language not regularly taught in the Department of Modern Languages.
- 480-483 **Special Topics.**  
 Advanced study of a language not regularly taught in the Department of Modern Languages.

## MUSIC (MUS)

- 100 **Applied Music Laboratory. 0 hrs.**  
 A forum devoted to the development of applied music area, supplying the opportunity for music majors both to demonstrate performance skills and to observe the skills of colleagues.
- 101 **Basic Musicianship. 3 hrs.**  
 Study of music fundamentals and aural skills including: notation, key signatures, scales, intervals, and triads and aural recognition of meter, scales, intervals, and triads. Online section open to non-music majors.
- 102 **Developmental Class Piano.**  
 Class instruction for students with little or no prior background in piano. Preparation for entry into the MUS 179 sequence. (PR: permission)
- 105 **Critical Thinking in Music (CT). 3 hrs.**  
 Includes the study of critical thinking in music with specific focus on music education and performance. Students will examine aspects of specific knowledge and develop an understanding of synthesis of these components as required for careers.
- 111 **Elementary Music Theory I. 2 hrs.**  
 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. (PR: MUS 101 or permission; CR: MUS 113).
- 112 **Elementary Music Theory II. 2 hrs.**  
 Continued study of diatonic harmony of the Common Practice Period through development of compositional and analytical skills. Introduction to elementary forms, elementary modulations, and secondary dominants. (PR: Grade of C or better in MUS 111 and MUS 113; CR: MUS 114)
- 113 **Elementary Aural Skills I. 2 hrs.**  
 Sight-singing of melodies, and dictation of harmony, rhythm, and melody using elementary rhythms and diatonic pitch materials. (PR: MUS 101 with grade of C or better, or permission, CR: MUS 111)
- 114 **Elementary Aural Skills II. 2 hrs.**  
 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. (PR: MUS 113 with grade of C or better, CR: MUS 112)
- 142 **Music in Society. 3 hrs.**  
 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.
- 171-371 **African Drum and Dance Ensemble.**
- 172-372 **John Marshall Fife and Drum Corps. 1 hr.**  
 Performing/marching/uniformed ensemble devoted to the music of the American Revolution and Chief Justice John Marshall. Instruments featured include fifes and drums. (PR: Permission or Audition Required)
- 174-374 **Irish Ceili Band.**
- 177 a,b **Class Guitar. 1 hr.**  
 Classes for guitar majors and elective students.
- 178 a,b **Class Voice. 1 hr.**  
 Classes for voice minors and electives designed for beginners.
- 179 a,b,c,d **Class Piano. 1 hr.**  
 Classes for piano minors and electives progressing from beginner to proficiency level. (PR: Permission)
- 180-380 **Applied Music. Composition. 1-2 hrs.**
- 181-381 **Applied Music. Saxophone. 1-2 hrs.**
- 182-382 **Applied Music. Flute. 1-2 hrs**
- 183-383 **Applied Music. Oboe. 1-2 hrs.**
- 184-384 **Applied Music. Clarinet. 1-2 hrs.**
- 185-385 **Applied Music. Bassoon. 1-2 hrs.**
- 186-386 **Applied Music. French Horn. 1-2 hrs.**
- 187-387 **Applied Music. Trumpet. 1-2 hrs.**
- 188-388 **Applied Music. Trombone. 1-2 hrs.**
- 189-389 **Applied Music. Euphonium. 1-2 hrs.**
- 190-390 **Applied Music. Tuba. 1-2 hrs.**
- 191-391 **Applied Music. Violin. 1-2 hrs.**
- 192-392 **Applied Music. Viola. 1-2 hrs.**
- 193-393 **Applied Music. Cello. 1-2 hrs.**
- 194-394 **Applied Music. String Bass. 1-2 hrs.**
- 195-395 **Applied Music. Piano. 1-2 hrs.**
- 196-396 **Applied Music. Voice. 1-2 hrs.**
- 197-397 **Applied Music. Organ. 1-2 hrs.**
- 198-398 **Applied Music. Percussion. 1-2 hrs.**
- 199-399 **Applied Music. Guitar. 1-2 hrs.**
- 200 **Introduction to World Music. 3 hrs.**  
 This course will survey native musics of Africa, Asia and the Americas as an aspect of culture. No formal background in music is required.
- 203-403 **Choral Union. 1; 1 hr.**  
 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.



- 204-404 Marshall University Chorus. 1 hr.**  
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.
- 206-406 Opera Workshop. 1 hr.**  
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. (PR: Audition with Director)
- 207-407 Marshall University Chamber Choir. 1 hr.**  
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. (PR: Audition with Director)
- 208-408 Orchestra. 1 hr.**  
The Marshall Orchestra is open to all university students, faculty, and interested musicians in the community with permission of the instructor. Concerts are presented each semester. (PR: Audition with Director)
- 210 Introduction to Electronic Music (CT). 3 hrs.**  
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.
- 211 Advanced Music Theory I. 2 hrs.**  
Study of advanced harmonic concepts in tonal music including modulation, altered pre-dominants, and chromatic mediant relationships. (PR: Grade of C or better in MUS 112 and MUS 114; CR: MUS 213)
- 212 Advanced Music Theory II. 2 hrs.**  
The study of musical forms and formal processes found in music of the late 18th through the 19th centuries. (PR: Grade of C or better in MUS 211 and MUS 213; CR: MUS 214)
- 213 Advanced Aural Skills 1. 2 hrs.**  
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. (PR: MUS 112 and MUS 114; MUS 211 must be taken concurrently or prior to enrollment in MUS 213)
- 214 Advanced Aural Skills II. 2 hrs. II.**  
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. (PR: MUS 211 and MUS 213; MUS 212 must be taken concurrently or prior to enrollment in MUS 214)
- 217 Jazz Theory. 4 hrs.**  
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. (PR: MUS 211 and 213)
- 218 Introduction to Music Technology. 3 hrs.**  
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)
- 222 Italian and English Diction for Singers. 2 hrs.**  
A systematic study of the pronunciation and problems encountered by singers when performing repertoire with English and Italian texts.
- 224 French and German Diction for Singers. 2 hrs.**  
A systematic study of the pronunciation and problems encountered by singers when performing repertoire with French and German texts. (PR: MUS 222)
- 231 Jazz Improvisation I. 2 hrs.**  
Introduction to improvisation. Diatonic chord/scale relationships. Basic forms. Melodic construction and elaboration. Rhythmic improvisation. Keys and modes. (PR: MUS 112 and MUS 114)
- 232 Jazz Improvisation II. 2 hrs.**  
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. (PR: MUS 231)
- 240 Seminar in Music Composition and Theory. 2 hrs.**  
Introduction to advanced theoretical and compositional methods employed by artist/researchers in analyzing music from the 19th and 20th centuries. (PR: MUS 112 and 114)
- 245 Piano Ensemble. 1 hr.**  
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. (PR: Instructor audition)
- 250 Survey of Jazz. 3 hrs.**  
A survey of the development of jazz and related forms from the 19th century antecedents to recent experimental trends.
- 252-452 Cello Ensemble. 1 hr.**  
Cello students will rehearse and perform works from the major literature for cello ensemble.
- 253-453 Guitar Ensemble. 1 hr.**  
An ensemble elective for guitar majors and qualified guitar elective students that focuses on sight reading skills, ensemble accuracy and position playing.
- 254-454 Flute Ensemble. 1 hr.**  
Performs a wide variety of musical styles from full flute choir to quartets, trios, etc. Membership required of all flute majors; others by audition. One rehearsal per week.
- 255-455 String Ensemble. 1 hr.**  
(PR: Audition with Director)
- 256-456 Woodwind Ensemble. 1 hr.**  
(PR: Audition with Director)
- 257-457 Percussion Ensemble. 1 hr.**  
(PR: Audition with Director)
- 258-458 Brass Ensemble. 1 hr.**  
(PR: Audition with Director)
- 259-459 Jazz Ensemble. 1 hr.**  
(PR: Audition with Director)
- 260-460 Jazz Improvisation Ensemble. 1 hr.**  
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.
- 261 String Techniques. 1 hr.**
- 262 Woodwind Techniques. 1 hr.**
- 263 Brass Techniques. 1 hr.**

- 264 Percussion Techniques. 1 hr.**
- 265-465 Symphonic Band. 1 hr.**
- 266-466 Marching Band. 1 hr.**
- 267-467 Wind Symphony. 1 hr.**  
(PR: Audition with Director)
- 268-468 Pep Band. 1 hr.**
- 269-469 Contemporary Music Ensemble. 1 hr.**  
Performance of contemporary music in various media. May be repeated for credit. Counts towards improvisation requirement.
- 270-470 Music Production Practicum. 1 hrs.**  
Specialized practical training in aspects of performance production, preparation, and execution. May be repeated once.
- 279a,b,c,d Jazz Piano Class. 1 hr.**  
Class instruction progressing from beginner to advanced. Development of literature and skills needed to pass the jazz piano proficiency exam. (PR: Permission)
- 280-283 Special Topics. 1-4 hrs.**
- 290 Music History to 1750. 3 hrs.**  
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)
- 301 Analysis. 3 hrs.**  
Analysis of music from the 18th through 20th centuries using general analytical methodology, set and serial theory. (PR: MUS 212 and 214 with a grade of C or better)
- 302 Advanced Analysis. 2 hrs.**  
Analysis of musical works from the late 19th century through the present era using sight and sound. (PR: Grade of C or better in MUS 301)
- 304 Styles. 2 hrs.**  
An investigation of the distinguishing characteristics of the music of major composers by the study, dissection and comparison of major works. (PR: MUS 302)
- 306 Digital Recording Techniques. 2 hrs.**  
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).
- 307 Jazz Styles. 2 hrs.**  
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)
- 312 Vocal Techniques. 1 hr.**  
Foundation principles of voice usage, interpretation, and problems of vocal pedagogy. For instrumental music education majors. Courses must be taken in sequence. (PR: MUS 312 for 313)
- 315 Instrumental Conducting. 2 hrs.**  
Techniques and mechanics of the baton with emphasis on securing attacks, releases, dynamics, and tempo changes. Analysis of band and orchestral scores with practical application. (PR: MUS 212 and 214)
- 317 Counterpoint. 2 hrs.**  
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. (PR: MUS 214)
- 320 Instrumental Arranging. 2 hrs.**  
The study of the instruments of the modern orchestra, their history, technical possibilities and limitations, and practical application of technique in public school work. (PR: MUS 212 and 214)
- 321 Choral Arranging. 2 hrs.**  
Score writing and arranging for vocal ensembles of two to eight parts. (PR: MUS 212 and 214)
- 322 Orchestration. 2 hrs.**  
A detailed study of band and orchestral instrument capabilities and their use in various large and small ensembles. (PR: MUS 212 and 214)
- 323 Jazz Arranging and Composing. 3 hrs.**  
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. (PR: MUS 217)
- 331 Jazz Improvisation III. 2 hrs.**  
Advanced skills and techniques. Extended forms, substitute harmonic progressions. Survey of standard bebop literature. Transcription of solos. Performance and elaboration of representative literature. (PR: MUS 232)
- 332 Jazz Improvisation IV. 2 hrs.**  
Advanced skills, techniques, and performance practices. Compound and extended forms. Survey of post-bebop, free jazz, fusion, and AfroCaribbean literature. Transcription of solos. Performance of representative literature. (PR: MUS 331)
- 338 Music Education: Materials and Methods in School Music (PreK-4). 3 hrs.**  
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)
- 339 Music Education: Materials and Methods in Instrumental Music (Grades 5-12). 3 hrs.**  
Intensive study of materials and methods of instrumental music in middle and secondary grades. Curriculum design and incorporation of music curriculum into general curriculum. Field experience required. (PR: EDF 218)
- 340 Music Education: Materials and Methods in Choral and General Music (Grades 5-12). 3 hrs.**  
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)
- 342 Music Materials and Procedures. 3 hrs.**  
Materials and procedures for teaching music in nursery school, kindergarten and grades K-6. (PR: MUS 142 and permission of College of Education)
- 360 Music History 1730-1900. 3 hrs.**  
A study of the history and development of music c. 1730 to c. 1900, including the interaction of music with historical events, world culture, other arts and philosophy. (PR: MUS 290 or MUS 250 [Jazz Studies majors only] with a grade of C or better)
- 361 Music History Since 1900. 3 hrs.**  
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)
- 376 Junior Recital. 0 hrs.**
- 379 Advanced Class Piano. 1 hr.**  
Class instruction for experienced students. Development of repertoire, ensemble skills, and sight reading. (PR: MUS 179D or permission)
- 401 Research in Music. 3 hrs.**  
Basic research procedures and bibliography study culminating in a project in the student's area of specialization. (PR: MUS 361 and 376)

- 411 Jazz Pedagogy and Conducting. 3 hrs.**  
Methods and materials for jazz curriculum. Ensemble organization, rehearsal and conducting techniques. Selection of literature and equipment. Organization and presentation of public performances.
- 415 Choral Conducting. 2 hrs.**  
Continuation of Music 315 with emphasis on interpretations, voice classification, intonation, choral repertoire, and program building. Opportunity for practical experience is provided by the various college choral organizations. (PR: MUS 315 or permission)
- 426 American Music and Its Influences. 3 hrs.**  
Musical and cultural influences of European, West African, Caribbean, and Native American societies on United States music from 1650 to 1920. Specific application to concert music. (PR: MUS 290 and 360 or permission of instructor)
- 428 Song Literature. 2 hrs.**  
A discussion of the development of the art song in western civilization. Study of song literature including texts, accompaniments, interpretation, and program building. For singers and accompanists. (PR: Sophomore hearing or permission of instructor)
- 429 Vocal Pedagogy. 2 hrs.**  
Review of materials, concepts, and methodology used in teaching singing; overview of anatomy and function of the voice. Emphasis on beginning and intermediate levels.
- 432 Electronic Music Composition. 2 hrs.**  
The theory and practice of the use of electronic media of composition. Synthesizer and tape recording techniques will be emphasized. Primarily for music majors. (PR: MUS 212 and 214)
- 433 Advanced Composition II. 3 hrs.**  
Experience in writing musical compositions in larger forms using twentieth-century compositional techniques. (PR: MUS 431)
- 440 Piano Teaching Techniques and Materials. 2 hrs.**  
Materials and techniques of presentation; development of reading skills; basic fundamentals of technique; cultivation of musicianship. Emphasis is on elementary and intermediate levels.
- 441 Piano Literature I. 2 hrs.**  
Investigation of the historical significance, stylistic and technical aspects, and performance problems in solo keyboard repertoire from J.S. Bach to Schubert. (PR: MUS 212 and 214 and 4 semesters advanced applied piano or equivalent)
- 442 Piano Literature II. 2 hrs.**  
Investigation of the historical significance, stylistic and technical aspects, and performance problems in solo keyboard repertoire from Chopin to the present. (PR: MUS 212 and 214 and 4 semesters advanced applied piano)
- 445 Piano Ensemble. 1 hr.**  
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. (PR: Instructor audition)
- 450 Guitar Literature. 2 hrs.**  
A survey of the literature for guitar from c. 1400 to the twentieth century. (PR: Permission)
- 451 Guitar Pedagogy. 2 hrs.**  
A survey of guitar pedagogy literature, and a practicum in teaching classical guitar. (PR: Permission)
- 480-483 Special Topics. 1-4 hrs.**
- 485-488 Independent Study. 1-4 hrs.**
- 491-494 Workshops. 1-4 hrs.**
- 498 BFA Composition Capstone. 2 hrs.**  
A discipline-based experience designed to combine classroom and studio education in a summarizing project. (PR: MUS 304, 401, 8 credits of MUS 380, and successful completion of piano proficiency requirements)
- 499 BFA Performance Capstone. 2 hrs.**  
A discipline-based experience designed to combine classroom and studio education in a summarizing project. (PR: MUS 304, 401, and successful completion of piano proficiency requirements)

## **NURSING (NUR)**

- 101 Academic Success for the Associate Degree Nursing Student. 1 hr. (ASN only)**  
This seminar course is designed to assist students to be successful in an associate degree nursing program. Students are expected to be active participants in each class session. (CR: NUR 120 or NUR 123)
- 120 Introduction to Nursing. 8 hrs. 6 theory-2 clinical. (ASN only)**  
Introduce the nursing role and use of the nursing process in assisting adult clients to meet basic needs. Clinical included. (CR: BSC 227, FSC 210, CHM 203)
- 219 Nursing Assessment of Individuals I. 3 hrs.**  
Study of nursing assessment of the individual through the life span in relation to wellness promotion and the impact of illness. Basic students: Completion of freshman level classes. (PR: MTH 121 or higher, ENG 101, BSC 227, BSC 228, CHM 203, PSY 201, SOC 200, admission to nursing program; PR/CR: NUR 221)
- 220 Health Alterations I. 8 hrs. 6 theory-2 clinical. (ASN only)**  
Focus is on nursing care of adult clients responding to potential and actual health alterations. (PR: NUR 120; CR: BSC 250, PSY 311)
- 221 Foundations of Professional Nursing I. 5 hrs.**  
Introduction to philosophical and theoretical foundations of nursing, exploration and integration of concepts and processes basic to professional nursing practice. Practicum included. (PR: MTH 121 or higher, ENG 101, BSC 227, BSC 228, CHM 203, PSY 201, SOC 200, admission to nursing program; PR/CR: NUR 219)
- 222 Foundations of Professional Nursing II. 6 hrs.**  
Introduction to professional nursing practice in relation to potential and simple alterations in health. Practicum included. (PR: NUR 219, NUR 221; PR/CR: NUR 319)
- 223 Introduction to Nursing Pharmacology. 3 hrs. (ASN only)**  
Focus is on role of the Associate degree nurse in understanding the human response to pharmacological therapy. (PR: LPN license)
- 225 Psychiatric Nursing. 4 hrs. 3 theory-1 clinical. (ASN only)**  
Focus is on the nursing role in caring for clients with alterations of psychosocial functioning. Clinical included. (PR: PSY 201, NUR 220; CR: PSY 311)
- 235 Maternal-Child Nursing. 6 hrs. 4 theory-2 clinical. (ASN only)**  
Focus is on the nursing role utilized in promoting health and caring for the child bearing family and pediatric clients. Clinical included. (PR: PSY 311, NUR 220)
- 239 Role Synthesis of the Associate Degree Nurse. 2 hrs. (ASN only)**  
This course will provide the knowledge and skill required to perform roles of patient care manager. Lab included. (CR: NUR 233, NUR 238)

- 241 Health Alterations III. 9 hrs. 4 theory-5 clinical. (ASN only)**  
Focus is on nursing care of adult clients with health alterations of specific physiological systems. (PR: NUR 230)
- 280-283 Special Topics. 1-4; 1-4; 1-4; 1-4 hrs. (ASN only)**
- 305 Concepts of Professional Nursing. 4 hrs.**  
Emphasizes concepts and processes essential to professional nursing practice. Philosophical and theoretical foundations of nursing are examined. Focus is on professional role and role transition. (PR: Admission to RN to B.S.N. nursing program)
- 318 Family and Chronic Illness. 2 hrs.**  
Focus is on family nursing theory as it related to human responses. Emphasis is on factors influencing family health promotion and health protection. Included is the impact of chronic illness on families. (PR: NUR 219, NUR 221, ENG 201; or PR/CR: NUR 305)
- 319 Nursing Assessment of Individuals II. 4 hrs.**  
Development of skills in taking health history and performing physical examination of clients throughout the life span. Practicum included. (PR: NUR 219, NUR 221; PR/CR: NUR 222)
- 321 Nursing and Human Responses I. 5 hrs.**  
Focus of nursing is on the diagnosis and treatment of human responses to changes that occur in the expanding family. Practicum included. (PR: NUR 222, NUR 319, ENG 201, BSC 250, DTS 314; PR/CR NUR 318)
- 322 Nursing and Human Responses II. 5 hrs.**  
Focus is upon nursing care of clients of all ages in relation to human responses to psychosocial and chronic illness. Practicum included. (PR: NUR 222, NUR 319, ENG 201, BSC 205, DTS 314)
- 323 Nursing and Human Responses III. 5 hrs.**  
Focus is on nursing care of adult clients responding to common health problems. Practicum included. (PR: NUR 222, NUR 319, ENG 201, BSC 250, DTS 314))
- 324 Nursing and Human Responses IV. 5 hrs.**  
Focus is on nursing care of adult clients responding to potential and complex alterations in health in relation to specific body systems. Practicum included. (PR: NUR 318, NUR 323, NUR 350)
- 325 Nursing and Human Responses V. 5 hrs.**  
Focus is on nursing care of adult clients responding to potential and complex alterations in health in relation to specific body systems. Practicum included. (PR: NUR 324, NUR 326)
- 326 Nursing and Human Responses VII. 3 hrs.**  
Focus is on nursing care of pediatric clients of all ages and their family's response to common and complex health problems. (PR: NUR 318, NUR 323, NUR 350)
- 333 Health and Physical Assessment for the RN. 2 hrs.**  
Focus on providing nurses with the knowledge base 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; CR: NUR 333L)
- 333L Health and Physical Assessment for the RN - Lab. 1 hr.**  
Focus on health and physical assessment, documentation, and interpersonal skills with emphasis on clinical decision-making. Apply concepts learned in NUR 333 and knowledge from previous courses and clinical practice. (PR: admission to RN to B.S.N. nursing program; CR: NUR 333)
- 350 Pharmacology for Nurses. 3 hrs.**  
Focus is 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. (CR: NUR 222)
- 400 Transcultural Health Care. 3 hrs.**  
Focus is on health care practices and beliefs in a variety of cultures. Political, economic, and geographic factors affecting global health care are addressed. Open to non-majors. (PR: NUR 219, NUR 221; or PR/CR: NUR 305; or permission)
- 410 Community Nursing for the RN. 5 hrs.**  
Focus is on the foundations of community-oriented nursing practice for the Registered Nurse with an emphasis on health promotion and disease prevention. (NUR 305 and NUR 318)
- 416 Introduction to Research for Evidence-Based Practice. 3 hrs.**  
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 (PR: Statistics, NUR 305 or NUR 323)
- 418 Contemporary Nursing. 3 hrs.**  
This course focuses on nursing leadership, cost-based care, and the professional role of the nurse within a complex health care system. (PR: NUR 305)
- 419 Professional Nursing. 3 hrs.**  
Focus on nursing leadership, the management of patient care, and issues inherent to professional nursing practice. (PR/CR: NUR 422L or NUR 305)
- 421 Nursing and Human Responses VI. 5 hrs.**  
Focus is upon the 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: NUR 321, NUR 322, NUR 324, NUR 326, NUR 350)
- 422L Role Synthesis Practicum. 5 hrs.**  
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 321, NUR 322, NUR 325, NUR 350; PR/CR: NUR 416, NUR 419, NUR 421; CR NUR 425)
- 425 Capstone Seminar. 3 hrs.**  
The purpose of this course is to assist the student to synthesize the content of the baccalaureate nursing educational program. (CR: NUR 422L)
- 427 Professional Engagement in Nursing RN-BSN. 2 hrs.**  
Focus is on analyzing critical issues in nursing using critical thinking, theoretical and empirical knowledge. Critical issues include nursing management and chronic disease management. (PR: NUR 305 and RN licensure; PR/CR: NUR 416, NUR 418, NUR 421; CR: NUR 427L)
- 427L Professional Engagement Practicum in Nursing RN-BSN. 3 hrs.**  
Clinical application of concepts and theories of nursing management and management of chronic illness. Experiences include management of groups of clients in a variety of health-care settings. (PR: NUR 305 and RN licensure; PR/CR: NUR 416, NUR 418, NUR 421; CR: NUR 427)
- 480-483 Special Topics. 1-4; 1-4; 1-4; 1-4 hrs.**  
Study of topics not available in other courses.
- 485-488 Independent Study. 1-4; 1-4; 1-4; 1-4 hrs.**
- 495H-496H Readings for Honors in Nursing. 2-4; 2-4 hrs.**  
Open only to nursing majors of outstanding ability. By permission of the Dean. See Honors Courses.

## PARK RESOURCES AND LEISURE SERVICES (PLS)

- 100 Leisure in Your Life. 3 hrs.**  
An elective course, for non-park and recreation majors, designed to explore contemporary leisure values and the impact of leisure on American culture. (May not substitute for PLS 101)

- 101 Introduction to Natural Resources and Recreation Management. 3 hrs.**  
An orientation to the profession and its settings—emphasizing history, trends, concepts, and relationship to other fields. This course is prerequisite to all other PLS courses.
- 110 Outdoor Leadership: Canoeing. 1 hr.**  
This course is designed to give students the skills essential for the pursuit of employment in guiding participants on flat-water canoe courses in back-country settings.
- 111 Outdoor Leadership: Fly Fishing. 1 hr.**  
An activity course designed to teach the basic skills associated with fly fishing including equipment, flies, and techniques.
- 112 Outdoor Leadership: Bass Fishing. 1 hr.**  
This course is designed to give students the skills essential to pursue employment as a guide on bass fish excursions in the backcountry.
- 113 Outdoor Leadership: Backpacking. 1 hr.**  
This course is designed to give students the foundational skills essential in the pursuit of being leading participants on backcountry backpacking experiences. Leave No Trace ethics will be taught.
- 120 Introduction to Therapeutic Recreation. 3 hrs.**  
Introduction to the therapeutic recreation profession and its services which are designed to serve the ill, disabled, aged, blind and mentally handicapped.
- 156 Bicycling. 1 hr.**  
This course is designed to give the student basic knowledge and skills essential to safe and enjoyable bicycling.
- 158 Downhill Skiing. 1 hr.**  
An activity course designed to teach the basic skills of snow skiing using the proper ski equipment and ski techniques.
- 201 Recreational Activities. 3 hrs.**  
Introduces the student to a variety of recreational activities typically utilized in recreation settings.
- 230 Natural Resource and Park Management and Operation. 3 hrs.**  
This course focuses on the origin and conceptual development of parks and protected lands and the study of management and operation practices of these areas, specifically considering the physical resources.
- 231 Natural History. 3 hrs.**  
Designed to provide students with the fundamental understanding of and for the delivery of nature-based educational programs offered through an experiential framework.
- 280-283 Special Topics. 1-4; 1-4; 1-4; 1-4 hrs.**
- 301 Introduction to Outdoor Recreation. 3 hrs.**  
Organization, administration and delivery of outdoor recreation activities and resources. Emphasis upon federal, state, and local government programs and areas.
- 310 Environmental Interpretation. 3 hrs.**  
Principles and techniques of environmental interpretation as practiced in federal, state and private agencies.
- 311 Introduction to Environmental Education. 3 hrs.**  
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.
- 320 Recreational Sports and Campus Recreation Management. 3 hrs.**  
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.
- 330 Wildland Recreation Management. 3 hrs.**  
A systematic approach to the management of back country, primitive, and wilderness areas.
- 340 Special Event Management. 3 hrs.**  
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.
- 350 Adventure Education Leadership. 3 hrs.**  
This course focuses on preparing students to be outdoor adventure education leaders, facilitating programs in both the front and back country and utilizing adventure education techniques in an outdoor setting.
- 360 Sustainable Tourism. 3 hrs.**  
This course will examine the critical issues addressed by sustainable tourism, which are the positive and negative influences of tourism on the destination's economy, society, culture, and environment.
- 361 Visitor and Participant Behavior in Natural Resources and Recreation Management. 3 hrs.**  
This course provides an overview and analyses of individual and group behavior as it pertains to consumer activity in the context of recreation and tourism resource environments.
- 362 Ecotourism: Administration and Management. 3 hrs.**  
This course will examine the theoretical foundations, application and best management practices in ecotourism. Other minor topics include sustainability, nature-based and adventure tourism; sociocultural, environment, and economic impacts of ecotourism.
- 401 Administration of Natural Resources Parks and Recreation. 3 hrs.**  
Considers administrative practice for various recreation, parks, and protected lands' organizational structures. Includes administrative processes, supervision of personnel, budgeting and public relations primarily in the nonprofit sector.
- 402 Research, Evaluation and Assessment in Natural Resources and Recreation Management. 3 hrs.**  
Theoretical and practical approach to research, evaluation, and assessment of the social sciences of natural resources and recreation management.
- 410 Maintenance of Natural Resources and Recreation Areas. 3 hrs.**  
A study of the knowledge and skills necessary to supervise and administer the general development and maintenance of park and recreation areas and facilities.
- 411 Natural Area and Park Planning and Design. 3 hrs.**  
Basic considerations in the planning and design of natural areas, parks, recreation, and sport area infrastructure, facilities, and structures, including associated amenities.
- 431 Forest Recreation Planning. 3 hrs.**  
A forest recreation planning course utilizing the functional planning approach based upon demand and site capability analysis. 3 lec.-2 lab.
- 432 Wilderness and Protected Area Management. 3 hrs.**  
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.
- 433 GIS/RS in Natural Resources. 3 hrs.**  
Focusing on natural resource management, the course will explore techniques and procedures required for spatially explicit data analysis in park and protected area applications. (PR: IST 423 or equivalent)



- 450 Introduction to Off-highway Vehicle Recreation. 3 hrs.**  
A course designed to introduce the student to the subject of off-highway vehicle recreation in terms of areas, facilities, vehicle types, use, demand, professional organizations, legislation, and legal issues.
- 451 Planning and Design, and Construction of OHV Trail Systems. 3 hrs.**  
A course designed to guide students through the process of planning and designing off-highway vehicle trails utilizing state-of-the art procedures and technology.
- 452 Construction of OHV Trail Systems. 3 hrs.**  
A course designed to instruct students in contemporary methods and techniques of constructing OHV trails and related facilities.
- 453 Operation & Management of OHV Trail Systems. 3 hrs.**  
A course designed to provide students with background, guidance, and recommended procedures for operating and managing OHV trail systems and facilities.
- 480-483 Special Topics in Recreation. 1-4; 1-4; 1-4; 1-4 hrs.**  
(PR: By permission of the division head)
- 485-488 Independent Study. 1-4; 1-4; 1-4; 1-4 hrs.**
- 489 Internship Preparation. 1 hr.**  
This course will prepare students for the internship process, concentrating on placement and fulfilling the academic obligations of PLS 490 capstone. (PR: Majors only)
- 490 Natural Resources and Recreation Management Internship. 6 hrs.**  
A supervised, 40-hour per week, 6-week internship in which the student works with park and recreation agencies. (PR: NRRM major; advisor approval required)

## PHILOSOPHY (PHL)

- 200 Introduction to Philosophy: Ancient Period. 3 hrs. I, II, S.**  
The origins of philosophical activity among the Greeks by means of a selective sounding of several major thinkers.
- 200H Introduction to Philosophy: Ancient Period. 3 hrs. Honors**  
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. (PR: Admission to Honors College)
- 202 The Ethics of Contemporary Health Care. 3 hrs.**  
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.
- 203 Philosophy and Human Existence. 3 hrs.**  
An introduction to philosophy drawing from both ancient and modern thinkers and texts.
- 201 Introduction to Philosophy: Modern Period. 3 hrs. I, II, S.**  
Questions and answers concerning the nature of existence and human values and how we come to know them.
- 250 Studies in Humanities. 3 hrs. I, II.**  
An interdisciplinary course to introduce students to the elements of a humanistic education. (Same as Classics 250 and Religious Studies 250; PR or CR: English 101)
- 280-283 Special Topics. 1-4; 1-4; 1-4; 1-4 hrs.**  
Group or individual study of areas demanding further study of a more specialized depth.
- 301 Plato's Republic. 3 hrs.**  
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.
- 302 Applied Ethics. 3 hrs.**  
The application of basic ethical theories to contemporary moral issues drawn from such fields as medicine, business and the environment.
- 303 Ethics. 3 hrs.**  
A critical study of diverse moral norms, ideals and systems in theory and practice.
- 304 Logic and Interpretation. 3 hrs. I, II.**  
Theory and practice of valid principles of thinking, including developing the skills of justifying diverse types of belief and evaluating reasons for conflicting standpoints (for example, racial, gender, and ethnic differences).
- 306 Philosophy of Art. 3 hrs.**  
Examination of the qualities involved in the appreciation of beauty which serve as standards of taste.
- 315 American Philosophy. 3 hrs.**  
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).
- 320 Comparative Philosophy. 3 hrs.**  
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.
- 321 Current Philosophical Trends. 3 hrs.**  
Selected reading in contemporary thought embracing such movements as realism, Marxism, post-structuralism, deconstruction, postmodernism.
- 330 Philosophy of Sex. 3 hrs.**  
Introduction to some of the basic authors, texts, and themes in this branch of philosophy beginning with Plato's *Symposium*.
- 340 Philosophy of Sexual Orientation and Gender. 3 hrs.**  
An introduction to the philosophy of sexual orientation and its relation to gender, with a special focus on issues of knowledge and politics.
- 353 Philosophy of Science. 3 hrs.**  
Reflections on crucial concepts of modern science relevant to philosophical issues in interpreting human beings and the universe; special attention given to epistemological and other problems of mathematics and physical and social sciences. (PR: Three hours of philosophy)
- 363 Philosophy of Feminism. 3 hrs.**  
An introduction to contemporary feminist theory including discussion of current gender-related issues.
- 390-394 Junior Seminar in Humanities. 3 hrs.**  
A structured interdisciplinary study offered by the departments of Philosophy, Classics, and Religious Studies in the foundations of human thought, myth, literature, religion, philosophy, and art. Same as CL 390-394 and RST 390-394. (CR/PR: ENG 102, 302, 201H, YGS 152, IST 201, or one course from CL 231, 232, 233, 319, PHL 200, 201, 303, 321, 340, 353, RST 205, 206, 300, 304, 320, 325)
- 400 Ancient Philosophy. 3 hrs.**  
Advanced study of major philosophers drawn from the ancient Greek and Roman period. (PR: PHL 200)
- 401 Modern Philosophy. 3 hrs.**  
Advanced study of major movements in philosophy from the 17th century on, movements such as rationalism, empiricism, idealism, and existentialism. (PR: PHL 201, or any 300 level PHL course)



- 420 Metaphysics. 3 hrs.**  
Advanced study of the most basic nature of reality. (PR: 3 hrs. of philosophy)
- 421 Philosophy of Knowledge. 3 hrs.**  
Advanced study of the nature and possibility of knowledge. (PR: 3 hrs. of philosophy)
- 451 Philosophy of History and Culture. 3 hrs.**  
Ancient and modern theories of the meaning and consequence of history and culture. (PR: 3 hrs of philosophy)
- 455 Philosophy of Religion. 3 hrs.**  
Theories of the nature and functions of religion, including the meaning of religious language and the problems of belief. (PR: Six hours between philosophy and religious studies)
- 460 Philosophy of Politics and Power. 3 hrs.**  
Advanced study of the significance or the place in human reality of political organization, negotiation, strategy and power.
- 465 Existential Philosophy. 3 hrs.**  
A study of existential philosophers from Kierkegaard to Heidegger, Sartre and beyond.
- 470 Philosophy of Logic. 3 hrs.**  
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.
- 480-483 Special Topics. 1-4; 1-4; 1-4; 1-4 hrs.**  
Shared study and research on a special topic as announced. (PR: Permission of the chairman)
- 485-488 Independent Study. 1-4; 1-4; 1-4; 1-4 hrs.**
- 490-494 Senior Seminar in Humanities. 1-4 hrs.**  
Designed for majors as a senior humanities seminar, the the culminating interdisciplinary study in the Humanities program. (Sames as CL 490-494 and RST 490-494).
- 495H-496H Readings for Honors in Philosophy. 4; 4 hrs.**  
Open only to philosophy majors of outstanding ability. See Honors Courses.
- 498 Directed Readings in Philosophy. 3 hrs. I or II.**  
Advanced research adaptable to the needs of the individual student. (PR: Permission of department chairman)

## PHYSICAL EDUCATION AND LIFETIME ACTIVITIES (PEL)

- 100 Beginning Swimming. 1 hr. I, II.**  
PR: Non-swimming classification or instructor's permission)
- 113 Basketball. 1 hr. I, II.**  
Theory, rules and techniques of basketball.
- 115 Body Conditioning with Weights. 1 hr. I, II, S.**  
An introduction to weight training principles and techniques which can be utilized by both men and women to devise their own individual body conditioning programs.
- 118 Spinning. 1 hr.**  
Designed to promote fitness through spinning. (PR: ESS 250)
- 119 Total Body Conditioning. 1 hr.**  
Designed to help instruct both men and women with a variety of lifetime fitness activities.
- 120 Self Defense. 1 hr.**
- 121 Taekwondo. 2 hrs.**  
Techniques and skills are taught with emphasis on participation.
- 125 Beginning Gymnastics 1 hr.**
- 127 Aerobics - Personal Fitness. 1 hr. I, II, S.**  
A course designed to provide the information necessary for the development of an individualized aerobic fitness program.
- 132 Beginning Volleyball. 1 hr. I, II, S.**
- 133 Beginning Softball. 1 hr. I, II, S.**  
Techniques and skills of softball taught with emphasis on participation in the activity.
- 140 Beginning Tennis. 1 hr. I, II, S.**
- 141 Beginning Golf. 1 hr. I, II, S.**
- 142 Beginning Badminton. 1 hr. I, II.**
- 145 Beginning Bowling. 1 hr. I, II.**
- 147 Beginning Soccer. 1 hr. I.**  
Instruction in techniques and skills of beginning soccer with strategy provided through class participation.
- 150 Beginning Ice Skating. 1 hr.**  
To provide the student with sufficient skills to properly utilize ice skating as a lifelong recreational activity.
- 155 Beginning Folk Dance. 1 hr. I, II.**
- 156 Beginning Square Dance. 1 hr. I, II.**
- 159 Beginning Social Dance. 1 hr.**  
The analytical and practical study of the skills necessary to perform contemporary and traditional ballroom dance.
- 160 Beginning Modern Dance. 1 hr.**  
Analytic and practical study of beginning modern dance technique with some experiences in the basic elements of composition.
- 170 Beginning Racquetball. 1 hr. I, II.**
- 175 Core Conditioning. 1 hr.**  
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 routine.
- 180 Yoga. 1 hr.**  
Techniques are taught with emphasis on participation.
- 205 Intermediate Swimming. 1 hr. I, II.**  
Theory and practice of fundamental strokes.
- 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 & diffused light simulation.
- 232 Intermediate Volleyball. 1 hr. I, II.**  
Practice of intermediate volleyball techniques with additional insight into offensive and defensive techniques used in competitive volleyball.
- 235 Intermediate Softball. 1 hr. I, II.**  
Practice of intermediate softball skills with emphasis on offensive and defensive techniques and strategies.
- 240 Intermediate Tennis. 1 hr. I, II.**

- 241 Intermediate Golf. 1 hr. I, II.**
- 242 Intermediate Badminton. 1 hr. I, II.**
- 243 Intermediate Basketball. 1 hr. I, II.**  
Practice of intermediate basketball skills with emphasis on offensive and defensive techniques and strategies.
- 245 Intermediate Bowling. 1 hr. II.**
- 251 Intermediate Soccer. 1 hr. II.**  
Instruction in advanced techniques, skills and strategies in soccer.
- 257 Intermediate Folk Dance. 1 hr.**  
Continuation of skills in Folk Dance with emphasis on intermediate dances and techniques.
- 258 Intermediate Square Dance. 1 hr.**  
Continuation of skills in Square Dance with emphasis on intermediate dances and techniques.
- 259 Intermediate Social Dance. 1 hr.**  
Emphasis on stylization and more advanced skills involved in the performance of ballroom dance.
- 261 Intermediate Modern Dance. 1 hr.**  
A continuation of Beginning Modern Dance, with an emphasis on analysis, discipline, and performance.
- 270 Intermediate Racquetball. 1 hr.**
- 275 Scuba Diving. 2 hrs.**  
Instruction in the theory and practice of basic scuba diving.
- 280-283 Special Topics. 1-4; 1-4; 1-4; 1-4 hrs.**  
(PR: Permission of Division Person)
- 403 Advanced Swimming and Life Saving. 1 hr. I, II.**  
Instruction in several swimming strokes and techniques to develop advanced levels of ability. Instruction and tests for American Red Cross Senior Life Saving Certification.
- 404 Water Safety Instruction. 1 hr. I, II.**  
Materials and methods of teaching American Red Cross Safety Course. Upon satisfactory completion, Water Safety Instructor's Certificate issued.  
(PR: PE 403 and Senior Life Saving Certificate)

## PHYSICAL SCIENCE (PS)

- 101 Introductory Astronomy (CT). 4 hrs.**  
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.
- 109 General Physical Science. 3 hrs. I, S.**  
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. (PR: MTH 121, or MTH 123, or MTH 127, or MTH 130, or MTH 130E, or MTH 229, or MTH 203, or MTH 121B, or MTH 130H; CR: PS 109L lab) 3 lec.
- 109L General Physical Science Laboratory. 1 hr. I, S.**  
A laboratory course with experiments related to PS 109. (CR: PS 109)
- 110 General Physical Science. 3 hrs. I, S.**  
Course covers the basic principles of chemistry, applications of chemistry, and an introduction to earth science. Atomic theory, chemical reactions and structure, everyday chemicals, and basic concepts of geology are studied. (PR: MTH 121, or MTH 121H, or MTH 123, 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; CR: PS 110L)
- 110L General Physical Science Laboratory. 1 hr. II, S.**  
A lab course with experiments related to PS 110. (CR: PS 110)
- 220 Ethics for Science. 1 hr.**  
Classical virtue theory with applications to situations encountered by scientists as students, faculty, or researchers. Includes ethical guidelines from the American Physical Society, the American Chemical Society, and the IEEE.
- 280-283 Special Topics. 1-4; 1-4; 1-4; 1-4 hrs.**
- 325 Development of Scientific Thought. 4 hrs.**  
An introduction to the history and nature of science, emphasizing the logic of scientific reasoning and progress with social and historical influences. Includes lab. (PR: 12 hrs of science)
- 400 Astronomy. 3 hrs. I, II., S.**  
A study of the stars, planets and galaxies, planetary motion, cosmology, cosmography. Designed to assist teachers and others to develop an interest in astronomy. (PR: PHY 201 or PHY 211 or PS 109; and CR: PS 400L)
- 400L Astronomy Laboratory. 1 hr. I, II, S.**  
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. (CR: PS 400)
- 410 Physical Principles of Remote Sensing with Applications. 4 hrs.**  
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 204; MTH 225 or permission)
- 411 Digital Image Processing and Computer Simulation Modeling. 4 hrs.**  
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. (PR: PS 410 or permission)
- 470 Practicum. 4 hrs.**  
Problem solving, geobiophysical modeling, and proposal development techniques in the physical sciences. (PR: PS 411, BSC 411, IS 421, or permission)
- 480-483 Special Topics. 1-4; 1-4; 1-4; 1-4 hrs.**
- 485-488 Independent Study. 1-4; 1-4; 1-4; 1-4 hrs.**

## PHYSICS (PHY)

- 101 Conceptual Physics. 3 hrs. I, S.**  
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. 3 lec. (PR: MTH 121, or MTH 127, or MTH 130, or MTH 130E, or MTH 229, or MTH 203, or MTH 121B, or MTH 130H; CR: PHY 101L)
- 101L Conceptual Physics Lab. 1 hr. I, II, S.**  
A laboratory course designed to include the principles and applications of physics that are introduced in Physics 101. (CR: PHY 101) 2 lab.
- 120 Introduction to LabView. 3 hrs.**  
An introduction to the LabView programming environment for instrumentation control, data acquisition and analysis.

- 201 General Physics. 3 hrs. I, II, S.**  
A course in general physics for all science majors with the exception of physics and engineering majors. 3 hrs. lec. (PR: (MTH 127 and MTH 122), or (MTH 130 & MTH 122), or MTH 132, or (MTH 140 and MTH 122), or MTH 229 or (ACT 27 or higher and an additional math course either taken before or concurrently, such as MTH 127, MTH 130, MTH 140, MTH 229, or MTH 132); CR: PHY 202)
- 202 General Physics Laboratory. 1 hr. I, II, S.**  
Required of all students taking PHY 201 or PHY 211, unless exempt by special permission. 2 hrs. lab (CR: PHY 201 or PHY 211).
- 203 General Physics. 3 hrs. I, II, S.**  
A course in general physics for all science majors with the exception of physics and engineering majors. 3 hrs. lec. (PR: a "C" or better is required in both PHY 201 and PHY 202 to proceed into PHY 203; CR: PHY 204).
- 204 General Physics Laboratory. 1 hr. I, II, S.**  
Required of all students taking PHY 203 or 213, unless exempt by special permission. 2 hrs. lab (CR: PHY 203 or PHY 213).
- 211 Principles of Physics. 4 hrs. I, II.**  
A course in the basic principles of physics for physics, mathematics, and engineering majors. 4 hrs. lec. (CR: MTH 229 and PHY 202)
- 213 Principles of Physics. 4 hrs. I, II.**  
A course in basic principles of physics for physics, mathematics, and engineering majors. 4 hrs. lec. (PR: PR: MTH 229 and PHY 211 and a C or better is required in both PHY 211 and PHY 202 to proceed into PHY 213; CR: MTH 230 and PHY 204).
- 280-283 Special Topics. 1-4; 1-4; 1-4; 1-4 hrs.**
- 300 Electricity and Magnetism. 3 hrs. I. (Alternate years)**  
A course including the study of electrostatics, magnetostatics, electromagnetic induction, introduction to Maxwell's equations and electromagnetic waves. 3 lec. (PR: PHY 203 or 213 and MTH 231)
- 302 Electricity and Magnetism. 3 hrs. II. (Alternate years)**  
A study of Maxwell's equations and electromagnetic waves, radiation theory, optical phenomena, and electrodynamics. 3 lec. (PR: PHY 300)
- 304 Optics. 3 hrs. II. (Alternate years)**  
An intermediate course in geometrical and physical optics. 3 lec. (PR: PHY 203 or 213; CR: PHY 405 or 505) See 405.
- 308 Thermal Physics. 3 hrs. I. (Alternate years)**  
A study of thermodynamics, kinetic theory of gases, and an introduction to statistical mechanics 3 lec. (PR: PHY 203 or 213 and MTH 231)
- 314 Electronic Physics. 3 hrs. II. (Alternate years)**  
A study of transistors, integrated circuits and their associated circuits. 3 lec. (PR: PHY 203 or 213 and 204) See PHY 415.
- 320 Introductory Modern Physics. 3 hrs. I.**  
An introductory study of atomic and molecular theories, relativity, quantum theory, and nuclear physics. 3 lec. (PR: PHY 203 or 213 and MTH 140 or MTH 230) See 421
- 330 Mechanics. 3 hrs. I. (Alternate years)**  
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. (PR: PHY 203 or 213 and MTH 231)
- 350 Biomedical Physics. 4 hrs. II.**  
A one-semester survey course in biomedical applications of physical principles designed for students in premedical, paramedical, and life sciences. 3 lec-2 lab. (PR: PHY 203 or 213 and 204, or consent of instructor)
- 405 Optics Laboratory. 2 hrs.**  
A course in optical experiments encompassing geometrical and physical optics. This course is to be taken with Physics 304.
- 412 Atmospheric Physics with Computer Simulation Modeling. 3 hrs.**  
A general introduction to the earth's atmosphere. The physical and chemical dynamic behavior of the earth's atmosphere will be analyzed by comparing computer simulated profiles with in situ measurements. (PR: Permission of instructor)
- 415 Electronics Laboratory. 2 hrs.**  
A course in laboratory measurements encompassing transistors, integrated circuits, and their associated circuits. This course is to be taken with Physics 314.
- 421 Modern Physics Laboratory. 2 hrs.**  
Laboratory exercises on modern physics topics encompassing both experiments of historic significance and current applications. To be taken with Physics 320, or equivalent.
- 425 Solid State Physics. 3 hrs.**  
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. (CR/PR: PHY 320 or 442 or CHM 442)
- 431-432 Seminar. 1 hr. each I, II.**  
One semester required of physics majors.
- 435 Scientific Computing. 3 hrs.**  
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. (PR: IST 163 or MTH 229)
- 442 Quantum Mechanics I. 3 hrs. II. (Alternate years).**  
A study of waves and particles, the Schroedinger and Heisenberg formulations, particles in potential fields, scattering and perturbation theories, and applications to atomic and nuclear structure. 3 lec. (PR: MTH 231 and PHY 330)
- 443 Quantum Mechanics II. 3 hrs.**  
This is a second part of a two-semester introduction to quantum mechanics. Emphasis is on applications of quantum theory, including approximative techniques and the study of more realistic quantum systems. (CR/PR: PHY 442 or CHM 442)
- 445 Mathematical Methods of Physics. 3 hrs. II. (Alternate years).**  
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. (PR: PHY 203 or 213 and MTH 231 or permission)
- 447 Mechanics for Teachers. 4 hrs.**  
An in-depth study of mechanics for education majors specializing in Physics with emphasis on problem-solving techniques, demonstrations, experiments and computer applications. The course also examines recent advances in physics education. (PR: PHY 203 or 213, MTH 122, MTH 140)
- 450 Radiation Physics in Life Sciences. 4 hrs. II. (Alternate years)**  
A course in radiation physics with emphasis on applications in the medical sciences. Designed for students interested in the life sciences. A field trip to the University of Michigan nuclear reactor is an integral part of the course. 3 lec-2 lab. (PR: PHY 203 or PHY 213 and 204, or consent of instructor)
- 462 Nuclear Physics and Chemistry. 3 hrs. II. (Alternate years)**  
An introduction to the description of nucleons, electric and magnetic properties of a nucleus, nuclear energy levels, nuclear reactions including neutron activation, interaction of particles with matter, and nuclear forces. 3 lec. (PR: PHY 320 and MTH 231 or consent of instructor.) See 463.
- 463 Nuclear Physics Laboratory. 2 hrs.**  
Laboratory techniques for the measurement of nuclear properties, theory and characteristics of various detectors, statistics of counting, and energy determination of nuclear particles and radiation. This course is to be taken with PHY 462. A field trip to the University of Michigan Nuclear Reactor is an integral part of the course.

- 480-483 Special Topics. 1-4; 1-4; 1-4; 1-4 hrs. I, II, S.**  
By permission of department chairman.
- 485-488 Independent Study. 1-4; 1-4; 1-4; 1-4 hrs.**  
By permission of department chairman.
- 491 Capstone. 1-2 hrs.**  
To give a capstone experience to physics majors in their junior and senior years by applying the principles of physics to the solution of real life problems.
- 492 Capstone. 1-2 hrs.**  
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)

## POLITICAL SCIENCE (PSC)

- 104 American National Government and Politics (CT). 3 hrs.**  
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. (Some sections are Writing Intensive.)
- 105 Fundamentals of Politics (CT). 3 hrs.**  
Critical thinking approach introducing the study of politics, its major concepts, processes, institutions, and fields of concern, with attention to political science in the larger context of social science inquiry.
- 200 Models of Politics. 1-3 hrs.**  
Introduction to the use of theory in political science. Offered in one-credit (5-week) modules. Module I is prerequisite to all others. Designed to assist in the development of analytic and synthetic skills.
- 202 American State Government and Politics. 3 hrs.**  
Study of the institutions, processes, and significance of this level of political life in America.
- 207 Comparative Politics (CT). 3 hrs.**  
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.
- 209 Fundamentals of International Relations. 3 hrs.**  
Survey of major concepts and approaches in the study of international relations and analysis of processes, institutions, strategies, and trends in world politics.
- 211 Scope and Method in Political Science. 3 hrs.**  
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, use of scientific method, textual and case-study approaches and data analysis. Offered only in Spring semester.
- 233 Introduction to Public Policy. 3 hrs.**  
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.
- 280-283 Special Topics. 1-4; 1-4; 1-4; 1-4 hrs.**  
To offer a course on some special topic not adequately treated in the regular course offerings
- 301 Urban Government and Politics. 3 hrs.**  
Political systems in American cities and metropolitan areas.
- 303 American Political Parties. 3 hrs.**  
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.
- 307 Public Opinion and Propaganda. 3 hrs.**  
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.
- 311 Issues in Public Policy. 3 hrs.**  
A course devoted to a special topic of interest in the policy field, such as energy, health care, transportation, environmental concerns, etc.
- 333 Introduction to Public Administration. 3 hrs.**  
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.
- 376 Black Politics. 3 hrs.**  
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.
- 381 The American Legislative Process. 3 hrs.**  
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 policy-making process; the role of the legislature as a subsystem in the larger political system; and problems and trends.
- 382 Student Legislative Program. 1 hr. II.**  
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. (PR: Junior or senior standing, a Political Science course in American Government and permission)
- 383 The American Executive Process. 3 hrs.**  
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.
- 405 International Organization. 3 hrs.**  
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.
- 406 International Politics. 3 hrs.**  
Study of major issues in world politics, with emphasis on theoretical approaches, problems of war and peace, and contemporary trends.
- 407 Asian Politics. 3 hrs.**  
Study of such nations as India, China, Japan, and Korea in the contemporary setting.
- 408 Middle Eastern Politics. 3 hrs.**  
Study of the Arab States and such nations as Israel, Iran, and Turkey in the contemporary setting.
- 409 Western Democratic Politics. 3 hrs.**  
Study of such nations as Canada and those of Western Europe, particularly Great Britain and France.
- 410 Post-Soviet Politics. 3 hrs.**  
Study of the politics of Russia and the former Soviet Union.

- 411 Latin American Politics. 3 hrs.**  
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.
- 412 International Political Economy. 3 hrs.**  
This course will examine the evolution and structure of the global economic system with emphasis on the development of the Liberal International Economic Order.
- 415 International Law. 3 hrs.**  
Study of theories, origins, sources, development, present state, and trends of international law as a factor in various aspects of international politics.
- 416 Politics of Development. 3 hrs.**  
A survey of major theories development and modernization and issues confronting developing nations around the world.
- 417 Homeland Security and Civil Liberties. 3 hrs.**  
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.
- 418 American Political Thought II (Reconstruction to Present). 3 hrs.**  
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.
- 419 Women and Political Thought. 3 hrs.**  
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.
- 420 Current World and Regional Issues. 3 hrs.**  
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.
- 421 American Political Thought I (Founding to Civil War). 3 hrs.**  
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.
- 422 African Political Systems. 3 hrs.**  
The study of political systems of selected countries, blocs, or regions.
- 423 American Foreign Policy. 3 hrs.**  
The study of descriptive, analytical, and normative aspects of United States foreign policy with emphasis on contemporary problems and issues.
- 424 Comparative Foreign Policy. 3 hrs.**  
Application of the comparative method to foreign policy decision-making and outputs. Comparisons within or between geographic regions.
- 425 Ancient and Medieval Political Thought. 3 hrs.**  
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.
- 426 Modern Political Thought. 3 hrs.**  
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.
- 427 Shapers and Definers. 3 hrs.**  
A study of political leaders who have shaped and defined the American constitutional tradition.
- 428 Islamic Political Ideas and Institutions. 3 hrs.**  
Study of Islamic political ideas, practices, and institutions and their impact on the rise and development of contemporary Islamic movements, organizations, and states.
- 429 The Politics of Conflict and Revolution. 3 hrs.**  
Study of major theories of conflict and revolution with emphasis on cross-national explanations and outcomes.
- 430 Political Ideologies. 3 hrs.**  
This course examines modern political ideologies including Liberalism, Conservatism, Anarchism, Socialism, Fascism, Feminism, and Environmentalism with emphasis on the original texts.
- 431 Politics of Global Terrorism. 3 hrs.**  
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.
- 433 Public Administration and Policy Development. 3 hrs.**  
Examination of alternative theoretical approaches to the study of policy and administration and their implications for the use of policy to shape administrative practice.
- 435 Harry Potter and Political Theory. 3 hrs.**  
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.
- 436 The American Judiciary. 3 hrs.**  
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.
- 440 Power in American Society. 3 hrs.**  
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.
- 442 Politics and Welfare. 3 hrs.**  
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.
- 444 Dictatorship and Democracy. 3 hrs.**  
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 reduction.
- 445 Environmental Politics. 3 hrs.**  
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.
- 446 Politics In History. 3 hrs.**  
A study of politics as an order-shattering, order-restructuring force during some of America's most transformative moments.
- 450 Administrative Law. 3 hrs.**  
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.



- 452 Public Personnel Administration. 3 hrs.**  
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.
- 453 Governmental Budgetary Administration. 3 hrs.**  
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.
- 454 Administrative Organization and Behavior. 3 hrs.**  
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.
- 460 Civil Rights and Liberties. 3 hrs.**  
The basic substantive and procedural elements of American constitutional liberties and civil rights with emphasis on historical development as influenced by social and political forces.
- 461 Urban Problems and Public Policy. 3 hrs.**  
Study of policy problems of metropolitan areas in terms of structures, alternatives, and outcomes.
- 466 Appalachian Politics. 3 hrs.**  
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.
- 480-483 Selected Topics. 1-4; 1-4; 1-4; 1-4 hrs.**  
To offer a course on some special topic which is not adequately treated in the regular course offerings.
- 484 Constitutional Law. 3 hrs.**  
Introduction to the principles of American constitutional law and analysis of constitutional issues, emphasizing leading Supreme Court cases.
- 485-488 Independent Study. 1-4; 1-4; 1-4; 1-4 hrs.**  
These numbers are reserved for tutorials, directed and independent readings, directed and independent research, problem reports, etc.
- 489 Seminar in Public Service. 3 hrs.**
- 490 Public Service Internship. 6 hrs.**
- 495H-496H Readings for Honors in Political Science. 2-4; 2-4; hrs. I, II.**  
Open only to political science majors of outstanding ability. Both courses must be taken to receive credit. See Honors Courses.
- 499 Capstone Experience. 3 hrs.**  
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. Offered only in Fall Semester

## PSYCHOLOGY (PSY)

- 100 Careers in Psychology. 1 hr.**  
Prepares students to be successful undergraduate Psychology majors and introduces possible careers and educational requirements. Does not count toward hours in major required for graduation. (Graded CR/NC only)
- 201 General Psychology (CT). 3 hrs.**  
Critical thinking approach to the principles and methods in the scientific study of behavior.
- 201H General Psychology—Honors (CT). 3 hrs.**  
For the superior student. (PR: Admission to Honors College)
- 204 Psychology of Adjustment. 3 hrs.**  
Modes of personal and social adjustment; assessment and treatment techniques.
- 205 Introduction to Paraprofessional Mental Health. 3 hrs.**  
Course covers paraprofessional mental health career options; community resource utilization, deinstitutionalization, crisis/interpersonal intervention and special populations. On-site observation experience required. (PR: PSY 201 or permission)
- 210 Ethics for Paraprofessional Mental Health. 3 hrs.**  
Course covers common ethical principles in mental health disciplines; HIPAA guidelines; laws, regulations and policy; supervision requirements, managing boundaries, cultural competence. (PR: PSY 204 or permission)
- 223 Elementary Behavioral Statistics. 3 hrs.**  
Orientation to the philosophy of science; survey of methods in behavior study; elementary statistics. (PR: MTH 121 or higher)
- 250 Psychology of Popular Culture. 3 hrs.**  
This course surveys how psychology and psychological issues are presented, researched, and applied in multiple modalities of popular culture. (PR: PSY 201)
- 280-283 Special Topics. 1-4; 1-4; 1-4; 1-4 hrs.**
- 300 Paranormal Phenomena. 3 hrs.**  
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.
- 302 Social Psychology. 3 hrs.**  
Social determinants of individual behavior. (PR: PSY 201; 12 college credits at 100 level or higher)
- 310 Behavioral Interventions for Paraprofessional Mental Health. 3 hrs.**  
Course covers behavioral theory, antecedent motivators, functional analysis, reinforcement regimes; preparing and following treatment plans, defining measurable goals/objectives, monitoring progress. (PR: PSY 205 or permission)
- 311 Child Development. 3 hrs.**  
Psychological characteristics and personal and social problems of developmental periods. (PR: PSY 201; 12 college credits at 100 level or higher)
- 312 Adult Development. 3 hrs.**  
Study of the physiological, psychological, and social processes that occur with aging. (PR: PSY 201 or 311; 12 college credits at 100 level or higher)
- 323 Experimental Psychology. 3 hrs.**  
Methodology and research in psychology. (PR: PSY 223)
- 324 Sensation and Perception. 3 hrs.**  
Methodology and research in sensory and perceptual processes. (PR: PSY 223)
- 330 Human Sexual Behavior. 3 hrs.**  
A psychological approach to the functioning, attitudes, varieties and development of human sexual behavior. (PR: PSY 201; 12 college credits at 100 level or higher)
- 350 Animal Behavior. 3 hrs.**  
A comprehensive study of the behavior of non-human animals. (PR: Nine hours of Psychology)
- 360 Personality. 3 hrs.**  
Personality structure, dynamics and development. (PR: PSY 201; 12 college credits at 100 level or higher)



- 380 Introduction to Professional Psychology. 3 hrs.**  
This course surveys the application of psychology to human problems in clinics, schools, consumer patterns, environmental matters, the legal system, health psychology, clinical neuropsychology and others. (PR: PSY 201; 12 college credits at 100 level or higher)
- 391 Psychology of Aggression. 3 hrs.**  
A multifaceted study of aggressive behavior in humans and other animals. (PR: PSY 201, 302)
- 402 Advanced Social Psychology. 3 hrs**  
Advanced study of selected topics in social psychology. (PR: PSY 223, PSY 302 or consent of instructor)
- 403 Applied Social Psychology. 3 hrs.**  
Examination of the applications of social psychological methods, theories, principles and research findings to the understanding or solution of social problems. (PR: PSY 302)
- 406 Psychometrics. 3 hrs.**  
Mental test theory and applications. (PR: PSY 223)
- 408 Abnormal Psychology. 3 hrs.**  
An overview of the theories, assessment techniques, and treatment of maladaptive behavior. (PR: PSY 201; 12 college credits at 100 level or higher)
- 411 Advanced Topics in Developmental Psychology. 3 hrs.**  
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. (PR: PSY 311)
- 416 Psychology of Learning. 3 hrs.**  
Critical study of the major theories of learning and the related research. (PR: PSY 201, PSY 223)
- 417 Intermediate Behavioral Statistics. 3 hrs.**  
An intermediate level presentation of descriptive and inferential statistics as applied in behavioral research. (PR: PSY 201 and 223)
- 418 Psychology of Personnel. 3 hrs.**  
Psychological principles and methods applied to functions in personnel administration. (PR: PSY 201; 12 college credits at 100 level or higher)
- 420 Introduction to Industrial - Organizational Psychology. 3 hrs.**  
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. (PR: PSY 201; 12 college credits at 100 level or higher)
- 422 Psychology of Machines. 3 hrs.**  
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.
- 424 Environmental Psychology. 3 hrs.**  
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 phenomena to human-constructed environments.
- 426 Cross Cultural Psychology. 3 hrs.**  
Emic and etic cultural concepts are considered from an American (subcultural) and international perspective. Cultural influences on healing, health and service are covered. (PR: PSY 201; 12 college credits at 100 level or higher)
- 427 Computer Applications in Psychology. 3 hrs.**  
An introduction to computer applications in psychology, emphasizing data collection, management, organization, analysis and reporting. (PR: PSY 201, 223; IT 101 or CT 101)
- 430 Psychology of Women. 3 hrs.**  
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. (PR: PSY 201)
- 431 Health Psychology. 3 hrs.**  
Introduction to the contribution of psychology to the promotion and maintenance of health and the prevention and treatment of illness (PR: PSY 201, 323)
- 433 Current Models of Psychotherapy. 3 hrs.**  
Introduction of theoretical models and related therapeutic strategies which influence the practice of modern psychotherapy. (PR: PSY 201)
- 440 Physiological Psychology. 3 hrs.**  
The relationships between physiological functions and biochemical processes and behavior. (PR: PSY 201; 12 college credits at 100 level or higher)
- 456-457 Research in Psychology. 3; 3 hrs.**  
Laboratory courses to give advanced students experience in conducting psychological research. Capstone experience. (PR: Permission of instructor)
- 460 History and Systems of Psychology. 3 hrs.**  
An examination of the historical and philosophical antecedents of contemporary psychology. Capstone experience (PR: Twelve hours of Psychology)
- 465 Love, Intimacy, and Attachment. 3 hrs.**  
Examination of how childhood attachments, bonds, and relationships affect and influence adult perspectives on love, expectations, intimacy, fidelity, and commitment. (PR: PSY 311)
- 470 Practicum in Industrial-Organizational Psychology. 3 hrs.**  
The course will offer students applied observational/research experience in Personnel/Human Resource Departments under the supervision of professionals within the fields of Industrial-Organizational Psychology and Human Resources. Capstone experience. (PR: Either PSY 418 or 420; Major in Psychology; permission of instructor; complete application form).
- 471 Practicum in Clinical Psychology. 3 hrs.**  
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. Capstone experience. (PR: 12 hours of PSY including 408 and permission of instructor; complete application form)
- 475 Race, Culture and Development. 3 hrs.**  
Examine the roles that race, ethnicity, and culture play in the physical, cognitive, intellectual, and social developmental processes of people of color.
- 480-483 Special Topics. 1-4; 1-4; 1-4; 1-4 hrs.**
- 485-488 Independent Study. 1-4; 1-4; 1-4; 1-4 hrs.**  
A course or seminar on some aspect of Psychology not otherwise treated in regular course offerings (PR: Permission of instructor and department chairperson)
- 495H-496H Readings for Honors. 2-4 hrs. each.**  
Open only to students of outstanding ability. See Honors Courses.
- 499 Psychology Capstone Seminar. 3 hrs.**  
A capstone course which integrates research methods, critical analysis, and problem solving applied to psychological questions and issues. (PR: PSY 223 and 323; 2.0 GPA in PSY and overall)

## **PUBLIC HEALTH (PH)**

- 101 Introduction to Public Health. 3 hrs.**  
Course introduces students to the concepts and models of public health.

- 105 Introduction to Epidemiology. 3 hrs.**  
This course provides an introduction to epidemiology for undergraduate students.
- 201 Community Health and Development. 3 hrs.**  
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.
- 220 Social and Behavioral Health. 3 hrs.**  
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.
- 240 Control of Infectious Diseases. 3 hrs.**  
Examination of infectious diseases from a public health perspective, including strategies for prevention, treatment, control and eradication. (PR: PH 105)
- 270 Global Health. 3 hrs.**  
This course provides students the opportunity to study health care systems in developed and developing countries and compare these systems to the U.S. health care system.
- 304 Environmental Health. 3 hrs.**  
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.
- 305 Foundation and Formulation of Public Health Policy. 3 hrs.**  
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.
- 350 Research Methods in Public Health. 3 hrs.**  
The course focuses on quantitative and qualitative research methods and covers observational and experimental research designs. (PR: MTH 225)
- 380 Maternal and Child Health. 3 hrs.**  
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. (PR: PH 270)
- 420 Topics in Health Policy. 3 hrs.**  
This course provide in-depth study of timely topics in health policy. High-impact health reform issues will be examined, culminating in student formulation of a policy perspective.
- 430 Monitoring and Evaluation in Public Health. 3 hrs.**  
Introduces students to the language and theory of program monitoring and evaluation. Facilitate understanding of managing and tracking results in health programs. (PR: PH 101 and PH 105)
- 470 Seminar on Public Health I. 2 hrs.**  
Directed reading or research. Written reports are required. A course drawing together the major areas of public health to form an integrated picture of the field.
- 471 Seminar on Public Health II. 3 hrs.**  
Directed reading or research. Written reports are required. A course drawing together the major areas of public health to form an integrated picture of the field.
- 490 Public Health Internship. 6 hrs.**  
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.

## RELIGIOUS STUDIES (RST)

- 205 Introduction to Religious Traditions of the West. 3 hrs. I or II.**  
A comparative study of major religious traditions of the Western world: Judaism, Christianity, Islam, Zoroastrianism, and religions of the Americas.
- 206 Introduction to the Religious Traditions of Asia. 3 hrs. I or II.**  
A comparative study of the major traditions of Asia: Hinduism, Buddhism, Confucianism, Taoism, and Shinto.
- 220 Literature of the Old Testament. 3 hrs. I or II.**  
Traces the origins, growth, and development of the literature of the Hebrew people to the Greek period. Includes an introduction to and application of modern tools of biblical study.
- 225 Literature of the New Testament. 3 hrs. I or II.**  
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.
- 250 Studies in Humanities. 3 hrs. I.**  
An interdisciplinary course to introduce students to the elements of a humanistic education. (Same as Classics 250 and Philosophy 250; PR or CR: ENG 101)
- 280-283 Special Topics. 1-4; 1-4; 1-4; 1-4 hrs.**  
Research adaptable to the needs of the individual student.
- 300 The Nature of Religion. 3 hrs.**  
An analysis of the nature of religious personalities, institutions, literature, philosophies, experiences, and education.
- 303 World of Islam. 3 hrs.**  
An examination of the global cultures of Islam with particular focus upon the origin and development of the religion which binds them together.
- 304 The Teachings of Jesus. 3 hrs. I, II.**  
An analysis of early Christian writing and a systematic study of the message of the historical Jesus that stands behind it.
- 305 Early Christianity. 3 hrs.**  
Traces the background, birth, and development of Christian thought from Paul through Augustine.
- 310 The Hebrew Prophets. 3 hrs. I or II.**  
The rise of the office of prophet and the contributions of prophecy to religion.
- 311 Jewish Holocaust. 3 hrs.**  
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?
- 319 ABC's of Orthodoxy. 3 hrs.**  
An examination of Eastern Orthodox Christianity from the culture in which it was birthed to its place in today's society.
- 321 The Protestant Faith. 3 hrs.**  
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.

- 322 The Catholic World. 3 hrs.**  
An exploration of the origin and development of the Catholic World in all of its multiple expressions: theology, politics, liturgy, and the arts.
- 323 Religion in America. 3 hrs. I, II.**  
The rise and development of religious thinking in America. (Same as History 323)
- 324 The Jewish Way of Life. 3 hrs.**  
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.
- 351 Classics of Religious Literature. 3 hrs.**  
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.
- 360 Hindu Mysticism. 3 hrs.**  
A general survey of religious life and mysticism throughout South Asian history.
- 361 Buddhism. 3 hrs.**  
General survey of Buddhist life throughout history and around the world.
- 390-394 Junior Seminar in Humanities. 3 hrs.**  
A structured interdisciplinary study offered by the departments of Classics, Philosophy, and Religious Studies in the foundations of human thought, myth, literature, religion, philosophy, and art (Same as PHL 390-394 and RST 390-394). (CR/PR: ENG 102, 302, 201H, YGS 152, IST 201, or one course from CL 231, 232, 233, 319, PHL 200, 201, 303, 321, 340, 353, RST 205, 206, 300, 304, 320, 325)
- 419 Religious Thought in the Western World. 3 hrs.**  
An analysis of the major schools of religious thought as they have developed in the West.
- 450 Sociology of Religion. 3 hrs.**  
An investigation into religion as a social phenomenon. (Same as Sociology 450)
- 480-483 Special Topics. 1-4; 1-4; 1-4; 1-4 hrs.**
- 485-488 Independent Study. 1-4; 1-4; 1-4; 1-4 hrs.**
- 490-494 Senior Seminar in Humanities. 1-4 hrs.**  
Designed for majors as a senior humanities seminar and the culminating interdisciplinary study in the Humanities program. (Same as CL 490-494 and PHL 490-494).
- 495H-496H Readings for Honors in Religious Studies. 4; 4 hrs.**  
Open to students with permission of the department chairman. See Honors Courses.

## RESPIRATORY CARE (RSP)

- 100 Respiratory Pharmacology. 3 hrs.**  
Introduces the student to basic pharmacology of medicines used in respiratory care and physiological implications on the human body. (CR: BSC 228)
- 101 Introduction to Respiratory Care. 2 hrs.**  
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. (PR: RSP 100)
- 102 Introduction to Respiratory Care Procedures. 3 hrs.**  
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. (CR: RSP 102L, 101; PR: RSP 100)
- 102L Respiratory Care Procedures Lab. 1 hr.**  
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. (CR: RSP 102, 101; PR: RSP 100)
- 200B Concepts of Professional Respiratory Care. 5 hrs.**  
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. (PR: CRT and admission to program)
- 201 Pulmonary Pathophysiology. 3 hrs.**  
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. (PR: RSP 102; CR: BSC 250)
- 202 Mechanical Ventilation Technology and Management. 3 hrs.**  
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. (PR: RSP 102; CR: BSC 250, RSP 201 and 203)
- 203 Respiratory Internship. I 4 hrs.**  
Emphasis is on information gathering from the patient record, physical evaluation of the patient and basic respiratory interventions. Co-requisite: RSP 202; (PR: Sophomore Level; CR: RSP 201)
- 204 Pulmonary Rehabilitation/Home Care. 1 hr.**  
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. (PR: RSP 203)
- 205 Cardiopulmonary Diagnostics. 3 hrs.**  
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. (PR: RSP 203; CR: RSP 206 and 207)
- 206 Neonatal/Pediatric Respiratory Care. 3 hrs.**  
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. (CR: RSP 205)
- 207 Introduction to Critical Care Management. 3 hrs.**  
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. (CR: RSP 205)
- 208 Seminar in Respiratory Care. 1 hr.**  
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. (PR: sophomore level)
- 209 Respiratory Internship II. 3 hrs.**  
Emphasis is on supervised practice of humidity and aerosol therapy, aerosol drug therapy, lung inflation therapy and techniques used in electrocardiography. (PR: sophomore level; CR: RSP 204, 205, 206, 207)
- 210 Respiratory Internship III. 3 hrs.**  
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. (PR: RSP 209)

- 211 Dynamics of Pulmonary and Renal Interaction. 2 hrs.**  
Emphasis is placed on the interaction of systems in gas exchange and renal involvement in acid base balance. (CR: RSP 210; PR: sophomore level)
- 212 Acute/Chronic Pulmonary Management. 3 hrs.**  
Emphasis place on pulmonary function testing/interpretation and care of a patient with long-term pulmonary disability requiring home care and rehabilitation. (PR/CR: Junior Status)
- 301 Introduction to Respiratory Care Management. 3 hrs.**  
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. (CR/PR: junior level)
- 302 Respiratory Internship IV. 2 hrs.**  
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. (PR: junior level)
- 303 Clinical Respiratory Education. 3 hrs.**  
Designed as an introduction to clinical teaching in a respiratory care program. Emphasis is on instructional and evaluation strategies and development of performance objectives. (PR/CR: junior level)
- 304 Advanced Neonatal and Pediatrics. 3 hrs.**  
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, junior level or RRT)
- 305 Respiratory Cost Management and Solutions. 3 hrs.**  
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. (Pr: junior level; CR: RSP 306)
- 306 Respiratory Care Performance Improvement. 3 hrs.**  
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. (PR: junior level; CR: RSP 305)
- 307 Advanced Techniques in Adult Critical Care. 4 hrs.**  
Emphasis is on current respiratory care procedures for the critically ill adult patient with exploration into newer techniques. (PR: RSP 207 or RRT; CR: junior level)
- 308 Respiratory Management and Quality Improvement. 3 hrs.**  
This course introduces the student to basic management principles of a respiratory department. Discussion includes scope of management, quality issues, budgeting issues, and evaluation and application of management concepts. (PR/CR: Junior status)
- 401 Introduction to Sleep Disorders. 4 hrs.**  
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. (CR: RSP 307)
- 402 Issues in Respiratory Management. 3 hrs.**  
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. (PR: RSP 304)
- 403 Respiratory Care Research. 3 hrs.**  
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. (PR: Statistics)
- 404 Advanced Respiratory Care Practicum. 3 hrs.**  
Advanced respiratory techniques and management for clients across the life-span. (PR: senior level)
- 405 Flight/Hyperbaric Care. 3 hrs.**  
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. (PR: senior level)
- 406 Community Respiratory Care. 3 hrs.**  
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. (PR: senior level)
- 420 Capstone in Respiratory Care. 5 hrs.**  
Role synthesis practicum incorporating provider of care, coordinator of care, member of profession and leadership roles. (CR: RSP 405)
- 480-483 Special Topics (1-4; 1-4; 1-4) 4 hrs.**  
Study of topics not available in other courses.

## **SAFETY TECHNOLOGY (SFT)**

- 101 Learning to Drive. CR/NC. 1 hr.**  
An introduction to traffic safety: emphasis is placed on the fundamentals of driving, pedestrian and cycle safety. 2 lab. per week. (Lab fee non-drivers only)
- 235 Introduction to Safety. 3 hrs. I, II, S.**  
The child/adult accident problem on an international level. Comparisons of various accidents by type and country will be explored along with prevention techniques.
- 280-283 Special Topics. 1-4; 1-4; 1-4; 1-4 hrs.**
- 340 Industrial Fire Prevention. 3 hrs. I.**  
An introductory course that explores the relationship between engineering and fire prevention. Topics include: sprinkler systems, water supplies, behavior of fire and materials, fire protection, extinguishers and other systems. (PR: SFT 235 minimum grade of C; CR: PHY 201 or PHY 211, and PHY 202)
- 372 Safety and Industrial Technology II. 3 hrs.**  
Industrial processes, graphics, materials, and dynamics, instrumentation, and design factors involving safety. (PR: SFT 235 minimum grade of C; CR: MTH 121 or MTH 123 or MTH 127 or MTH 130 or MTH 122 or MTH 140 or MTH 229 or MTH 229H)
- 373 Principles in Ergonomics and Human Factors. 3 hrs.**  
Introductory principles within human-machine relationships; examining the biological, physiological, and psychological factors which contribute to accident causation. (CR: SFT 373L; PHY 203 or PHY 212, and PHY 204)
- 373L Principles of Ergonomics Lab. 1 hr. II.**  
A laboratory course designed to include the principles and applications of human factors/ergonomics that were introduced in SFT 373. (CR: SFT 373; PHY 203 or PHY 212, and PHY 204)
- 375 Construction Safety I. 3 hrs.**  
Basic construction site safety focus on site preparation, planning, and inspection for safe operations. (PR: SFT 235 with a minimum grade of C)
- 378 Safety Evaluation and Measurement. 3 hrs.**  
Methodologies of safety performance and evaluation for accident prediction and control. (PR: SFT 235 and sophomore standing or higher)

- 385 Traffic Safety and Driver Education. 3 hrs.**  
An introductory course in the teaching of safety and driver education, including techniques of classroom and behind-the-wheel instruction. 2 lec-2 lab.
- 400 Traffic Law and Enforcement. 3 hrs. S.**  
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 present-day society.
- 410 Problems and Practices in Traffic Safety and Driver Education. 3 hrs.**  
A survey course designed for supervisors of traffic accident prevention programs. Examines and evaluates problems, attitudes, philosophies, activities and administrative practices in school, city and state traffic safety programs. Supplements basic teacher training courses in traffic safety.
- 450 Traffic Engineering. 3 hrs.**  
Concerned with traffic and pedestrian flow, channelization, light coordination, intersection control, and devices related to safe, convenient and economical transportation of persons and goods.
- 453 International Safety and Health. 3 hrs. I.**  
The effects of globalization on a variety of different countries' health and safety programs.
- 454 Industrial Environmental Protection. 3 hrs. I.**  
Environmental protection as related to industrial settings. Air/water quality, noise and chemical pollution and hazardous material control. (CR: SFT 454L and SFT 489; PR: CHM 212, CHM 218, PHY 203 or PHY 212, PHY 204 with a minimum grade of C)
- 454L Environmental Programming/Sampling Lab. 2 hrs. I.**  
Quantitative monitoring techniques for measuring air and water quality, the measurement of noise and chemical pollutions, and the evaluation of physical hazards. (CR: SFT 454L and SFT 489; PR: CHM 212, CHM 218, PHY 203 or PHY 212, PHY 204 with a minimum grade of C)
- 458 Hospital Safety. 3 hrs.**  
The role of safety and its effect on health professionals in hospitals, nursing homes and various health care facilities.
- 460 Safety Training Methods. 3 hrs. I.**  
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. (PR: SFT 372 or 375)
- 465 Incident Investigation Techniques. 3 hrs. II.**  
Introductory course in incident investigation giving insight into the recognition and collection of information, recording data and using various techniques including system safety analysis into the reconstruction of the event. (CR: 372, PHY 203 and PHY 204)
- 480-483 Special Topics. 1-4; 1-4; 1-4; 1-4 hrs.**  
Students with specialization in safety education only, with permission of department chairman.
- 485-487 Independent Study. 1-4; 1-4; 1-4; 1-4 hrs.**
- 489 Process Safety Management. 3 hrs. I.**  
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. (PR: SFT 372, PHY 203, PHY 204, all with a minimum grade of C; concurrent PR: CHM 211 and CHM 217)
- 490 Safety Internship. 3 hrs.**  
Supervised experience on the job site. (PR: PR: SFT 465, CHM 212, CHM 218, all with a minimum grade of C)
- 491-494 Workshop. 1-4; 1-4; 1-4; 1-4 hrs.**  
Workshop in selected areas of occupational safety and health.
- 497 Occupational Safety and Health Programs. 3 hrs.**  
Safety functions in industry. Principles of organization and application of safety programs. Prevention, correction and control methods are outlined and evaluated. (PR: SFT 235)
- 498 Environmental Safety and Health Legislation. 3 hrs. II.**  
A survey of the legislation that has affected the safety movement with special emphasis on the 1970 Occupational Safety and Health Act. (CR: SFT 372, CHM 212 and CHM 218.)
- 499 Occupational Safety Program Management. 3 hrs. II.**  
A study of safety programs at the state and local levels including the administrative, instructional, and protective aspects of a comprehensive safety program in schools, occupations, home and public. (PR: SFT 372, CHM 212, CHM 218, PHY 203 or PHY 212, PHY 204, all with a minimum grade of C)

## SCIENCE EDUCATION (Listed under Curriculum and Instruction)

### SOCIAL STUDIES (SOS)

- 207 Problems of a Multicultural Society. 3 hrs. I, II, S.**  
An interdisciplinary analysis of the multicultural nature of American society and its problems, with emphasis on the problems of minority groups.
- 404 Senior Seminar. 3 hrs. I or II.**  
A capstone course designed for those preparing to teach social studies in the middle school and the high school. (PR: Admission to teacher education; CR: An educational methods course)

### SOCIAL WORK (SWK)

- 203 Introduction to Social Work. 3 hrs.**  
Introduction to the field of social work.
- 210 Social Work and Human Behavior (CT). 3 hrs.**  
This course will focus on critical thinking about controversial issues related to social justice and social change and development of multicultural/global awareness and personal position related to social justice.
- 250 Volunteerism and Social Work. 1 hr.**  
Examination of social issues, social activism, civic responsibility, values, historical perspectives, and strategies for social change with 40 hour community service component.
- 280-283 Special Topics. 1-4; 1-4; 1-4; 1-4 hrs.**  
Selected topics not covered in regular course offerings. (PR: Majors only)
- 307 Child Welfare. 3 hrs.**  
Examination of child welfare issues, services, and interventions. (PR: SWK 203)
- 310 Human Behavior and Social Environment I. 3 hrs.**  
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. (PR: BSC 105, SOC 200, PSY 201, SWK 203, ENG 101, ENG 102 or permission of instructor. CR: SWK 320, 330, 340, or permission of instructor)



- 312 Human Behavior and the Social Environment II. 3 hrs.**  
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. (PR: BSC 105, SOC 200, PSY 201, SWK 203, 310, 320, 330, 340, or permission from instructor; CR: SWK 322, 332, 370, or permission from instructor)
- 320 Social Work Practice I. 4 hrs.**  
Generalist Social Work Practice with populations and institutions of Appalachia. Professional development, information gathering, and assessment across various size systems (PR: SWK 203 or permission of instructor. CR: SWK 310, 330, 340 or permission of instructor) For Social Work majors only.
- 322 Social Work Practice II. 4 hrs.**  
Generalist Social Work Practice with populations and institutions of Appalachia. Planning, intervention evaluation and termination across various size systems. (PR: SWK 203, 310, 320, 330, 340 or permission of instructor. CR: SWK 312, 332, 370 or permission of instructor) For Social Work majors only.
- 330 Social Welfare Issues in Appalachia. 3 hrs.**  
The development of Social Welfare as a continuing institution. Rural poverty and other critical social issues in Appalachia. (PR: ECN 250, PSC 202, SWK 203, or permission of instructor. CR: SWK 310, 320, 340, or permission of instructor)
- 332 Social Welfare Policy and Legislation. 3 hrs.**  
Policy formulation, implementation and analysis. Examination and critical analysis of social welfare policies, legislation, and administration. (PR: ECN 250, PSC 202, SWK 203, SWK 330, SWK 340 or permission of instructor. CR: SWK 312, 322, 370 or permission of instructor)
- 340 Social Work Research. 3 hrs.**  
Introduction to Social Work Research with preparation for evaluation of generalist practice. (PR: SWK 203 MTH 121 or above excluding 400 and 401 or permission of instructor. CR: SWK 310, 320, 330)
- 370 Practicum I. 3 hrs. CR/NC**  
Supervised field experience in a social agency or organization for minimum of 100 clock hours. Regular conferences with instructor and weekly seminars. (PR: SWK 203, 310, 320, 340. CR: SWK 312, 322, 332)
- 473 Practicum II. 12 hrs. CR/NC**  
Supervised field experience in a social agency or organization for minimum of 400 clock hours. Regular conferences with instructor and weekly seminars. (PR: SWK 203, 310, 312, 320, 322, 330, 332, 340, 370)
- 475 Social Work Capstone Seminar. 6 hrs.**  
A capstone course integrating coursework and field work as preparation for beginning level of generalist Social Work practice. (PR: SWK 203, 310, 312, 320, 322, 330, 332, 340, 370, 473, writing requirements). This course is taken the last regular semester before graduation.
- 480-483 Special Topics. 1-4; 1-4; 1-4; 1-4 hrs.**  
Study of topics of interest not covered in regularly scheduled classes.
- 485-488 Independent Study. 1-4; 1-4; 1-4; 1-4 hrs.**  
Individual study of topics not offered in regularly scheduled courses. Advance permission required.
- 495H-496H Readings for Honors in Social Work. 2-4; 2-4 hrs.**  
Open only to social work majors of outstanding ability. See Honors Courses.

## SOCIOLOGY (SOC)

- 200 Introductory Sociology (CT). 3 hrs.**  
Introduction to the study of human society. This class emphasizes critical thinking skills.
- 200H Introductory Sociology, Honors (CT). 3 hrs.**  
Introduction to the study of human society for the honors student. This course emphasizes critical thinking skills. (PR: Admission to the Honors College)
- 280-283 Special Topics. 1-4; 1-4; 1-4; 1-4 hrs.**  
Selected topics not covered in regular course offerings.
- 300 Social Organization. 3 hrs.**  
Analysis of sociological conceptual systems and theories.
- 310 Individual and Society. 3 hrs.**  
Study of sociological perspectives on social interaction and the relationship between the individual and society.
- 311 Deviance and Social Control. 3 hrs.**  
Study of the basic concepts and theories regarding deviant behavior and the mechanisms of social control.
- 313 Contemporary Social Issues and Problems. 3 hrs.**  
Analysis of current social issues and problems from a variety of sociological perspectives. Issues and problems will vary from semester to semester. (PR: SOC 200)
- 330 Sociology of Community Health. 3 hrs.**  
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.
- 342 American Society. 3 hrs.**  
Sociological analysis of the basic social and cultural features of contemporary American society.
- 344 Social Research I. 3 hrs.**  
Introduction to systematic social research methodology. (PR: SOC 200)
- 345 Social Statistics I. 3 hrs.**  
Introduction to statistical analysis of social data. (PR: SOC 200)
- 360 Sociological Theory. 3 hrs.**  
Introduction to the dominant theoretical perspectives in sociology examining the assumptions about human nature, society and sociology that constitute each theoretical tradition. (PR: SOC 200)
- 362 Health, Culture & Society. 3 hrs.**  
A case-study based consideration of the cultural representations and social processes of health, illness, and forms of medical care. (Same as ANT 362.) (PR: ANT 201 or SOC 200)
- 375 Social Stratification. 3 hrs.**  
Introduction to the analysis of structured social inequality with emphasis on the dimensions of social class, race and gender.
- 391 Junior Seminar. 3 hrs.**  
Discuss in seminar form career development and other aspects of professional preparation (applications, resumes, CVs, codes of conduct). (Same as ANT 391.) (PR: ANT or SOC Major)
- 401 Population and Human Ecology. 3 hrs.**  
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. (PR: Six hours of Sociology or departmental permission)



- 403 Social Research II. 3 hrs.**  
Intermediate social research methodology with emphasis on research design. (PR: SOC 344 three more hours of Sociology or departmental permission)
- 408 The Family. 3 hrs.**  
Theoretical analysis of the family as a primary social institution. (PR: SOC 200)
- 413 Social Movements and Social Change. 3 hrs.**  
Analysis of large-scale social change, including intentional social movements and revolutions. (PR: Six hours of Sociology or departmental permission)
- 420 Criminology. 3 hrs.**  
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. (PR: Six hours of Sociology or departmental permission)
- 421 Sociological Theory II. 3 hrs.**  
Examination of the emergence and development of theoretical orientations in Sociology. (PR: Six hours of Sociology or departmental permission)
- 423 Social Class, Power and Conflict. 3 hrs.**  
Theoretical analysis of economic and political inequality and the role of social conflict in the process of large-scale social organization. (PR: Six hours of Sociology or departmental permission)
- 425 Race and Ethnicity. 3 hrs.**  
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. (PR: SOC 200)
- 432 Sociology of Appalachia. 3 hrs.**  
Study of the economics, politics, and social relations of Appalachia, including contemporary debates over development in the region. (PR: Six hours of Sociology or departmental permission)
- 433 Sociology of Work. 3 hrs.**  
Study of the organization and structure of the work place as a social system; the meaning and organization of work; managerial functions; management-labor relations; and human relations in industry. (PR: Six hours of Sociology or departmental permission)
- 435 Juvenile Delinquency. 3 hrs.**  
A sociological analysis of juvenile crime, including a review of the origins of juvenile delinquency, an evaluation of causal theories, and an overview of the juvenile justice system. (PR: Six hours of Sociology or departmental permission)
- 440 Introduction to the Sociology of Aging. 3 hrs.**  
An introduction to the social processes and consequences of growing older for both the individual and society. (PR: SOC 200 or departmental permission)
- 442 Urban Sociology. 3 hrs.**  
The sociology of urban and metropolitan communities. (PR: Six hours of Sociology or departmental permission)
- 443 Evaluation Research. 3 hrs.**  
Analysis and application of theories and methods for assessing the outcomes of applied organizational services and programs to affect change in people and/or social conditions. (PR: Six hours of Sociology or departmental permission)
- 445 Social Statistics II. 3 hrs.**  
Intermediate level statistical analysis, including analysis of variance and covariance. 2 lec-2 lab. (PR: SOC 345 and three more hours of Sociology or departmental permission)
- 450 Sociology of Religion. 3 hrs.**  
Sociological analysis of religion as a social institution. Same as Religious Studies 450. (PR: Six hours of Sociology or departmental permission)
- 452 Sociology of Death and Dying. 3 hrs.**  
Study of death and dying as a societal and cultural phenomenon. Explores how institutions within our society deal with death. (PR: SOC 200)
- 455 Sociology of Sex and Gender. 3 hrs.**  
Analysis of social differentiation and inequality by gender, with a focus on the contemporary U.S. (PR: SOC 200)
- 460 Holocaust and Genocide. 3 hrs.**  
An examination of the Holocaust and other genocides from an interdisciplinary social science perspective. (PR: SOC 200)
- 464 Complex Organizations. 3 hrs.**  
Analysis of complex organizations with special attention given to bureaucratic organization. (PR: Six hours of Sociology or departmental permission)
- 466 Culture and Environment. 3 hrs.**  
This course will examine the symbolic and structural dimensions of struggles over defining, organizing, and controlling the natural environment from a biocultural perspective.
- 468 National Identity. 3 hrs.**  
Exploration of the cultural, political and economic processes that contribute to the creation and maintenance of the modern nation state as an imagined community. (PR: Six hours of Sociology or departmental permission)
- 470-471 Field Experience in Applied Sociology. 3; 3 hrs.**  
Supervised field work in public or private agencies affording students an opportunity to apply sociological knowledge and skills in addressing practical problems. (PR: Six hours of Sociology or departmental permission)
- 480-483 Special Topics. 1-4; 1-4; 1-4; 1-4 hrs.**  
Study of topics of interest not covered in regularly scheduled courses. (PR: Permission)
- 485-488 Independent Study. 1-4; 1-4; 1-4; 1-4 hrs.**  
Individual study of topics not offered in regularly scheduled courses. Advance permission required. (PR: Permission)
- 489 Internship. 1-4 hrs.**  
Supervised practicum founded on sociological knowledge in a host institution. 40-45 hours of internship work correspond with 1 credit hour. (PR: Six hours of sociology)
- 492 Senior Seminar. 3 hrs.**  
A capstone course drawing together the major areas of sociology to form an integrated picture of the field. (PR sociology major and senior standing or departmental permission)

## SPANISH (SPN)

- 101-102 Introductory Spanish. 3; 3 hrs. I, II, S.**  
Pronunciation, vocabulary and basic language structures. For students with no foreign language experience. (PR for SPN 102: SPN 101 with a C or better or permission)
- 112 Elementary Spanish. 3 hrs. I, II.**  
Emphasis on oral/written communication and on listening/reading comprehension. Students completing 112 with a C or higher receive 3 hours of credit (CR) for 101 content and 3 hours of graded credit for 112. For students who previously passed SPN 101, the 3 hours of credit for 101 WILL NOT COUNT toward graduation. (PR: two years or more of high school Spanish or permission)

- 140 Spanish for Health Care Providers. 4 hrs.**  
Designed for majors in the health professions, this course will teach conversational Spanish and cultural information to facilitate successful relations with the Spanish-speaking patient in a clinical situation.
- 203 Intermediate Spanish III. 3 hrs. I, II, S.**  
Emphasis on oral and written communication. Conversation and composition. Intermediate language structures. (PR: SPN 102 or SPN 112 with a C or better or permission)
- 204 Intermediate Spanish IV. 3 hrs. I, II, S.**  
Development of practical conversational skills, reading for comprehension, and directed compositions. (PR: SPN 203 with a C or better)
- 240 Hispanic Culture (CT). 3 hrs.**  
Taught in English, this course examines Hispanic cultures through literature and cinema.
- 280-283 Special Topics. 1-4; 1-4; 1-4; 1-4 hrs.**  
(PR: SPN 204)
- 305-306 Introduction to Spanish Conversation. 3 hrs.**  
Speaking intensive course designed to develop conversational skills and to review language fundamentals acquired in SPN 101-204 sequence. Course taught in Spanish. (PR: SPN 204)
- 307 Spanish for Law Enforcement. 3 hrs.**  
Course designed to help law enforcement students develop language skills and acquire a specialized vocabulary that will enable them to interact professionally with the Hispanic community. Course taught in Spanish. (PR: SPN 204)
- 315-316 Advanced Grammar and Composition. 3; 3 hrs. I, II.**  
A detailed analysis of Spanish syntax and shades of meaning, with the writing of original compositions in Spanish to perfect the student's own style. Courses taught in Spanish. (PR: SPN 305/306 or permission)
- 323-324 Advanced Grammar and Oral Communication.**  
Analysis of grammatical structures. Introduction to phonetics and applied linguistics, and oral practice in various discourse types such as conversation, narration, discussion/debate, presentation. Courses taught in Spanish. (PR: SPN 305/306 or permission)
- 325 Commercial Spanish. 3 hrs.**  
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.
- 335 Latin America: Culture and Civilization. 3 hrs. I.**  
A study of the civilization of the Latin-American countries and their contributions to world culture. Lectures, discussions, and reports. Course taught in Spanish. (PR: SPN 305/306 or permission)
- 336 Spain: Culture and Civilization. 3 hrs. II.**  
A study of the civilization of Spain and its contributions to world culture. Lectures, discussions, and reports. Course taught in Spanish. (PR: SPN 305/306 or permission)
- 407 Foreign Language Teaching Methodology. 3 hrs. II.**  
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. For Spanish education majors only. (CR/PR: Permission of instructor; must be taken with appropriate College of Education clinical experience)
- 408 Latin American Women. 3 hrs.**  
Taught in English, this course examines the interplay of cultural, ideological, and structural factors affecting women's lives in Latin America. (PR: ENG 201 or equivalent)
- 411 Pre Modern Latin American Literatures.**  
A study of representative Latin American literary works from the Pre-Colonial and Colonial periods and the 19th Century. Course taught in Spanish. Capstone. (PR: SPN 315/316 or SPN 323/324 or permission)
- 412 Contemporary Latin American Literatures.**  
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. Capstone. (PR: SPN 315/316 or SPN 323/324 or permission)
- 413 Literary Genres and Non-Canonical Issues in Latin America.**  
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. Capstone. (PR: SPN 315/316 or SPN 323/324 or permission)
- 414 Medieval, Renaissance and Golden Century Spanish Literature.**  
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. Capstone. (PR: SPN 315/316 or SPN 323/324 or permission)
- 415 Spanish Literature: 18th and 19th Centuries.**  
Study of the representative Spanish authors and literary works and the major intellectual movements in peninsular literature during the 18th and 19th centuries. Course taught in Spanish. Capstone. (PR: SPN 315/316 or SPN 323/324 or permission)
- 416 Contemporary Spanish Literature.**  
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. Capstone. (PR: SPN 315/316 or SPN 323/324 or permission)
- 417-418 Hispanic Film and Literature. 3 hrs.**  
Courses 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).
- 420 Afro-Latin America. 3 hrs.**  
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.
- 433 Intensive Grammar Review. 3 hrs.**  
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. (PR: SPN 315/316 and SPN 323/324)
- 435 Culture and Civilization: Contemporary Latin America. 3 hrs.**  
An overview of Contemporary Latin American cultures. Course deals with political changes, artistic movements, and issues of public interest during the 20th Century. Course taught in Spanish. (PR: SPN 315/316 and SPN 323/324)
- 436 Culture and Civilization: Contemporary Spain. 3 hrs.**  
Course is 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. Course taught in Spanish. (PR: SPN 315/316 and SPN 323/324)
- 440 Advanced Commercial Spanish. 3 hrs.**  
A study of forms and procedures in commercial relationships, business etiquette, and specialized business vocabulary that enables students to succeed in the Spanish-speaking business world. (PR: SPN 325)
- 444 Bilingual Contrastive Grammar. 3 hrs.**  
This course will compare Spanish and English grammatical structures. It will be taught in both languages to demonstrate the similarities, differences, and intertwining relationship between them. (PR: SPN 315/316 and SPN 323/324)

- 480-483 Special Topics. 1-4; 1-4; 1-4; 1-4 hrs. I, II.**  
Independent research for qualified students. (PR: SPN 315/316 or SPN 323/324 and permission)
- 485-488 Independent Study. 1-4; 1-4; 1-4; 1-4 hrs.**  
(PR: SPN 315/316 or SPN 324/325 and permission of instructor)
- 495H-496H Readings for Honors in Spanish. 4; 4 hrs. I, II.**  
Open only to outstanding majors. See Honors Courses.

## **THEATRE (THE)**

- 101 Introduction to Theatre. 3 hrs.**  
Fundamentals of theatre arts. (PR: majors only)
- 111 Introduction to Acting 3 hrs.**  
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.
- 112 Theatre Appreciation. 3 hrs.**  
Development of an appreciation and an understanding of theatre as a fine art. For non-theatre majors.
- 150 Introduction to Technical Theatre. 4 hrs.**  
This introductory course exposes students to the elementary principles, techniques, terminology, materials and application used to mount theatrical productions. A combination of lecture and laboratory instruction links theory with practice.
- 201 Critical Analysis of Theatre Literature. 3 hrs.**  
Critical analyses 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. (PR: THE 101)
- 220 Stage Movement I: Foundations. 3 hrs.**  
Exercises for flexibility, control, body-awareness and alignment.
- 221 Stage Voice I: Foundations. 3 hrs.**  
Vocal techniques for the actor.
- 222 Acting I: Foundations. 3 hrs.**  
Development of skill through foundational exercises. (PR: THE 220 and 221 or permission of instructor)
- 225 Creative Dramatics. 3 hrs.**  
Methods and techniques of creation of informal drama for all ages.
- 230 Auditioning Techniques. 3 hrs.**  
Techniques of auditioning for theatre, film, and television. (PR: THE 222)
- 240 Introduction to Stage Lighting. 4 hrs.**  
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 or permission of instructor)
- 250 Introduction to Costuming. 4 hrs.**  
The history, design, and construction of theatrical costumes.
- 260 Theatrical Drafting and Rendering. 3 hrs.**  
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. (PR: THE 150)
- 261 Stage Decor. 3 hrs.**  
A historical view of period style, furniture, accessories and motifs as they relate to interior decoration and architecture. Student renderings of documented research will constitute portfolio for subsequent design and applications.
- 270 Theatre Practicum. 1 hr.**  
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.
- 290 Musical Theatre Workshop I. 3 hrs.**  
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. (PR: THE 101, 111, or 112)
- 295 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 Department's BFA curriculum. (PR 101, 150, 220, 221, 222, 240, 250)
- 320 Acting II: Scene Study. 3 hrs.**  
Development of skill through exercises and analytical study of scenes. (PR: THE 222 and successful completion of Sophomore Review or permission of instructor)
- 322 Stage Voice II: Dialects for the Stage. 3 hrs.**  
Study and practice of dialects and accents that are commonly used in theatre, film, and television. (PR: THE 222 and successful completion of Sophomore Review or permission of instructor)
- 323 Stage Movement II: Physical Approaches. 3 hrs.**  
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)
- 354 Stage Makeup. 3 hrs.**  
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. (PR: THE 150 and THE 250)
- 355 Costume Design. 3 hrs.**  
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. (PR: THE 250)
- 356 Costume Construction. 3 hrs.**  
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. (PR: THE 250)
- 360 Scene Design I. 3 hrs.**  
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. (PR: Successful completion of Sophomore Review or permission of instructor)
- 361 Theatrical Scene Painting. 3 hrs.**  
Exploration of various techniques utilized by scenic artist including the generation of painter's evaluations, interpretive design renderings, estimating scenic demands, media selection, and execution of designs in full scale. (PR: THE 261 or permission of instructor)

- 362 Stage Management. 3 hrs.**  
The responsibilities 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. (PR: THE 150 and 240 or permission of instructor)
- 370 Theatre Practicum. 1 hr.**  
Acting, directing, or technical work in Marshall University Theatre productions. Register only with permission of instructor. (PR: Successful completion of Sophomore Review or permission of instructor; open only to Theatre majors.) May be repeated for a total of four hours.
- 390 Musical Theatre Workshop II. 3 hrs.**  
Applied skills in musical theatre for leading and solo roles, including integration of dance, music, and dialogue in ensemble performance. Intended for advanced students with performance experience in musical theatre. (PR: THE 295 or Permission; Audition Required)
- 410 Playwriting. 3 hrs.**  
Study of dramatic structure, characterization, dialogue, themes, sounds, and spectacle, including the writing of one-act plays. (PR: THE 101 and successful completion of Sophomore Review or permission of instructor)
- 420 Musical Theatre Studies. 3 hrs.**  
Analysis of musical scripts, study of spoken and musical scenes, staging musical numbers, and preparation of audition material. (PR: THE 222 and successful completion of Sophomore Review or permission of instructor)
- 421 Acting for the Camera. 3 hrs.**  
Projects in acting for the camera. Video taping of selected acting exercises. (PR: THE 222 and successful completion of Sophomore Review or permission of instructor)
- 423 Acting Styles. 3 hrs.**  
Interpretation of roles from classical, romantic, neoclassical, and modern plays. (PR: THE 222 and successful completion of Sophomore Review or permission of instructor)
- 430 Auditioning II: Professional Aspects. 3 hrs.**  
Students develop skills and prepare materials for professional acting auditions. (PR: THE 230)
- 436 Children's Theatre. 3 hrs.**  
Theory, direction, and staging of plays for children.
- 437 Directing I. 3 hrs.**  
Introduction to theories, principles, techniques, and history of directing. (PR: Successful completion of Sophomore Review or permission of instructor)
- 438 Directing II. 3 hrs.**  
In-depth study of directorial approaches. Analysis of contemporary movements and leaders in the field. Students must stage productions as part of class requirement. (PR: THE 437)
- 440 Theatre History to 1660. 3 hrs.**  
Survey of man's activities in the theatre from primitive times to 1660. (PR: THE 101 or permission of instructor)
- 441 Theatre History Since 1660. 3 hrs.**  
Survey of man's activities in the theatre from 1660 to present. (PR: THE 101 or permission of instructor. Courses must be taken in sequence.)
- 450 Stage Lighting II. 3 hrs.**  
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. (PR: Successful completion of Sophomore Review or permission of instructor)
- 460 Scene Design II. 3 hrs.**  
Advanced work in the process and styles of design for the stage. Abstraction, non-traditional materials and computer design utilization for various theatre forms will provide portfolio documentation for final critique. (PR: THE 261, 360)
- 480 Special Topics in Theatre. 1-4 hrs.**  
Program of study not normally covered in other courses. Topics vary from semester to semester. (PR: Permission of instructor.)
- 485-488 Independent Study. 1-4 hrs.**  
Courses taught by tutorials; directed independent readings or research; problem reports, and other activities designed to fill the needs of individual students. (PR: Permission of chairman)
- 490 Theatre Internship. 1-4 hrs.**  
Supervised off-campus contractual work-study arrangement with external agencies or theatrical institutions. (PR: Permission of advisor and Theatre chair)
- 491-494 Theatre Workshop. 1-4 hrs.**  
Practical, participatory courses for advanced students and professionals. Experience in new techniques, theories, and principles. (PR: Permission of instructor)
- 495H-496H Honors in Theatre. 1-3 hrs.**  
Readings for honors in theatre. (PR: Permission of chair)
- 499 Senior Capstone Project. 3 hrs.**  
The capstone project serves to demonstrate the student's proficiency in the major field of study. It is the culmination of coursework in the student's area of concentration. (PR: permission of student's advisor and committee)

## UNIVERSITY HONORS (HON)

The prerequisite for all courses is admission to the Honors College.

- 200 Second Year Seminar in Leadership, Ethics and Civic Engagement. 3 hrs.**  
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. (PR: Admission to Honors College)
- 290 Yeager Seminar I. 4 hrs.**  
(PR: Admission to the Yeager Scholars program)
- 291 Yeager Seminar II, 4 hrs.**  
(PR: Admission to the Yeager Scholars program)
- 292 Yeager Seminar III. 4 hrs.**  
(PR: Admission to the Yeager Scholars program)
- 293 Yeager Seminar IV, 4 hrs.**  
(PR: Admission to the Yeager Scholars program)
- 294-296 Interdisciplinary Honors. 3 hrs.**  
294, Ideas in Social Science; 295, Ideas in Natural Science; 296, Ideas in the Humanities. These courses are subject to periodic changes in content. (PR: Admission to Honors College)

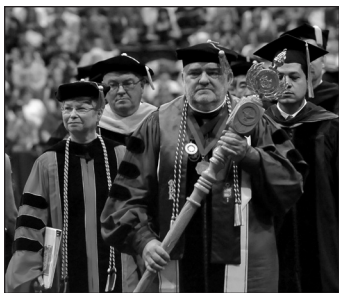
- 395-396 Interdisciplinary Honors. 3 hrs.**  
Open to distinguished sophomores and upperclassmen of the undergraduate colleges and schools. Course content varies each semester. (PR: Admission to Honors College)
- 480-483 Special Topics. 1-4 hrs.**  
A study of special topics not listed under current course offerings. (PR: Admission to Honors College)
- 484 Honors College Newsletter. 1-2 hrs.**  
Students will learn skills for and participate in information gathering, writing, editing and designing to produce the Honors College electronic newsletter, The Honors Oracle. (PR: Admission to the Honors College)
- 485-486 Independent Study. 1-4 hrs.**  
(PR: Admission to Honors College)
- 488 Student Association Steering Committee. 1-2 hrs.**  
The Honors College Student Association Steering Committee studies leadership and community-building strategies and organizes service, educational, and social functions for Honors College students. (PR: Admission to Honors College)

## UNIVERSITY STUDIES (UNI)

- 100 Freshman First Class. 1 hr.**  
An introduction to the academic structures and expectations of the university.
- 101 New Student Seminar. 1 hr.**  
An in-depth introduction to college life, covering areas such as academic expectations and skills, personal adjustments, and social issues. Intended for freshmen.
- 102 Strategies for Academic Success. 1 hr.**  
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.
- 103 Career Planning for Undecided Students. 1 hr.**  
Designed for undecided college students. Helps explore career options and majors. Topics include interest testing, career information, decision-making skills, and job finding strategies. Course does not count toward graduation.
- 201 Peer Mentoring for UNI 101. 1 hr.**  
Students trained as peer advisors will lead discussions and campus field trips, and work with faculty advisors in the design and implementation of the freshman introduction to campus life and classes.

## WOMEN'S STUDIES (WS)

- 101 Introduction to Women's Studies.**



# The Faculty

## ACCOUNTANCY AND LEGAL ENVIRONMENT

### Professor

Jeffrey Archambault, Ph.D., C.P.A. (Division Head); Calvin A. Kent, Ph.D.; Suneel K. Maheshwari, Ph.D.

### Associate Professor

Marie Archambault, Ph.D., C.P.A., C.M.A.; Bruce P. Conrad, M.B.A., C.P.A., C.F.P.; Raymond Keener, J.D., LL.M., C.P.A.

Nancy Lankton, M.B.A., Ph.D., C.P.A., C.I.S.A.; Jean B. Price, Ph.D.; Charles T. Stivason, Ph.D., C.P.A.

### Assistant Professor

Logan Browning, M.B.A.

### Instructor

Kerri Lucas, B.B.A., B.S., J.D.; Bob Simpson, M.B.A.; Amanda Thompson-Abbott, M.B.A., C.P.A.

## APPLIED SCIENCE AND TECHNOLOGY

### Professor

D. Allan Stern, Ed.D. (Division Chair) (CHCM); Anthony B. Szwilski, Ph.D., PE

### Associate Professor

Tracy Christofero, Ph.D.; James McIntosh, M.S. (CIH, CSP); Clair Joseph Roudebush, Ph.D. (CSP); David Scott Simonton, Ph.D., PE

### Assistant Professor

Jian Liu, Ph.D.

## ART AND DESIGN

### Professor

Jonathan Cox, M.F.A.; Mary Grassell, M.F.A.; Susan G. Jackson, Ph.D.; Peter Massing, M.F.A.; Donald Van Horn, M.F.A. (Dean, College of Arts and Media)

### Associate Professor

Maribea Barnes, Ph.D. (Interim Director); Hayson Harrison, M.B.A.; Daniel Kaufmann, M.F.A.; Natalie Larsen, M.F.A.

### Assistant Professor

Frederick Bartolovic, M.F.A.; Miyuki Cook, M.F.A.; Ian Hagarty, M.F.A.; Heather Stark, Ph.D.

## BIOLOGICAL SCIENCES

### Professor

Franklin L. Binder, Ph.D.; Harold Wayne Elmore, Ph.D. (Associate Dean, Science); Victor Fet, Ph.D.; Frank Gilliam, Ph.D.; Marcia Harrison, Ph.D.; James E. Joy, Ph.D.; David Mallory, Ph.D.; Jeffrey May, Ph.D.; Elmer Price, Ph.D.; Charles C. Somerville, Ph.D. (Dean, College of Science); Suzanne Strait-Holman, Ph.D.

### Associate Professor

Simon Collier, Ph.D.; Phillipe Georgel, Ph.D.; Nicola LoCascio, Ph.D.; Jagan Valluri, Ph.D.; Guo-Zhang Zhu, Ph.D.

### Assistant Professor

Brian Antonsen, Ph.D.; Jeffrey Kovatch, Ph.D.; Gary Schultz, Ph.D.



## **CHEMISTRY**

### **Professor**

Daniel P. Babb, Ph.D.; Michael P. Castellani, Ph.D. (Chair); Leslie M. Frost, Ph.D.; John L. Hubbard, Ph.D.; Michael L. Norton, Ph.D.; Lawrence R. Schmitz, Ph.D.

### **Associate Professor**

Robert J. Morgan, Ph.D.; William D. Price, Ph.D.; Bin Wang, Ph.D.

### **Assistant Professor**

B. Scott Day, Ph.D.; Derrick R. J. Kolling, Ph.D.; Laura R. McCunn, Ph.D.; Kenneth J. O'Connor, Ph.D.; Rosalynn Quiñones, Ph.D.; John F. Rakus, Ph.D.

## **CLASSICS**

### **Professor**

Caroline A. Perkins, Ph.D. (Chair, Modern Languages)

### **Associate Professor**

E. Del Chrol, Ph.D. (Chair), Christina Franzen, Ph.D.

## **CLINICAL LABORATORY SCIENCES**

### **Associate Professor**

Muhammad Amjad, Ph.D.; Jennifer D. Perry, M.S. (Chair)

### **Assistant Professor**

Pamela Meadows, B.S.

## **COMMUNICATION DISORDERS**

### **Professor**

Karen L. McComas, Ed.D.

### **Associate Professor**

Susan Thomas Frank, Ph.D.; Karen K. McNealy, Au.D. (Chair); Beverly Miller, M.A.

### **Assistant Professor**

Craig Coleman, M.A.; Loukia Dixon, M.A., , Kelly Harlow, M.A., Pamela Holland, M.A., Sandra Kemper, M.A.; Patricia Leonard, M.A., William Wood, M.A.

## **COMMUNICATION STUDIES**

### **Professor**

Robert B. Bookwalter, Ph.D. (Interim Dean, College of Liberal Arts); Camilla Brammer, Ph.D. (Chair); Stephen D. Cooper, Ph.D.; Barbara J. Tarter, Ph.D.; Cynthia Torppa, Ph.D.

### **Associate Professor**

Susan Gilpin, Ph.D.; Kristine Greenwood, Ph.D.

### **Assistant Professor**

Jill Underhill, Ph.D.; Steve Underhill, Ph.D.

## **COMPUTER SCIENCE**

### **Professor**

Jamil Chaudri, PhD.; Venkat Gudivada, Ph.D.

### **Associate Professor**

John Biros, M.S.; Hyoil Han, Ph.D.; Jonathan Thompson, M.S.

### **Assistant Professor**

Paulus Wahjudi, Ph.D.

## **CRIMINAL JUSTICE AND CRIMINOLOGY**

(See Integrated Science and Technology)

## **CURRICULUM AND INSTRUCTION**

(See Education)

## **CYTOTECHNOLOGY**

### **Clinical Assistant Professor**

Margene Smith, B.S., C.T., (ASCP); Carolyn Stevens, B.S., C.T. (ASCP)

### **Clinical Instructor**

Donna Deaton, B.S., C.T. (ASCP); Joseph Saxton, B.S., C.T. (ASCP)

## **DIETETICS**

### **Professor**

Mary Kathryn Gould, Ed.D.; Susan C. Linnenkohl, Ph.D.; Kelli J. Williams, Ph.D. (Chair)

### **Assistant Professor**

Jana A. Hovland, M.S.

## **EDUCATION**

### **Professor**

Robert S. Angel, Ph.D. (Program Coordinator); Neil V. Arneson, Ed.D.; Mary Jo Graham, Ph.D.; Barbara P. Guyer, Ed.D.; Thelma Isaacs, Ed.D.; Thomas Klein, Ed.D.; Paula L. Lucas, Ed.D. (Program Coordinator); Arthur S. Maynard, Ph.D. (Program Coordinator); Ruth Ann Murphy, Ph.D.; Kathy Seelinger, Ed.D.; James Sottile, Ed.D. (Assistant Chair); Linda Spatig, Ed.D.

### **Associate Professor**

Melinda Backus, Ed.D.; Steven R. Banks, Ed.D.; Janet Dozier, Ed.D.; Glenda Lowry, Ph.D., Mary Mhango, Ph.D. Melisa Reed, Ed.D.; George Watson, Ed.D. (Program Coordinator)

### **Assistant Professor**

Laura Boswell, Ed.D.; William H. Paynter, Ph.D.

## **ENGINEERING**

### **Professor**

Richard Begley, Ph.D.; Betsy Ennis Dulin, J.D.; Eldon Larsen, Ph.D.; Richard F. McCormick, Ph.D., PE, PS; William E. Pierson, Ph.D., PE (Division Chair), Wael Zatar, Ph.D. (Dean, CITE)

### **Associate Professor**

Gan Sheng Chen, Ph.D.; J. Joseph Fuller, M.S.; Andrew Nichols, Ph.D., P.E.; Isaac Wait, Ph.D., P.E. .

## **ENGLISH**

### **Professor**

Timothy Burberry, Ph.D.; Jane Hill, Ph.D. (Chair); Gwenyth Hood, Ph.D.; Mary Moore, Ph.D.; James D. Riemer, Ph.D.; Kateryna Schray, Ph.D.; Edmund M. Taft, Ph.D.; John W. Teel, M.A.; John Van Kirk, M.F.A.; John Young, Ph.D.

### **Associate Professor**

Roxanne Aftanas, Ph.D.; David Hatfield, Ph.D.; Hyo-Chang Hong, Ph.D.; Rachael Peckham, Ph.D.; Kelli Prejean, Ph.D.; Michele Schiavone, Ph.D.; Sherri Smith, Ph.D. (Director, Center for Teaching and Learning); Anthony Viola, Ph.D.; Jun Zhao, Ph.D.

### **Assistant Professor**

Hilary Brewster, Ph.D.; Allison Carey, Ph.D.; Puspa Damai, Ph.D.; Kristen Lillvis, Ph.D.; Eric Smith, M.F.A.; Walter Squire, Ph.D.; Jill Treftz, Ph.D.; Benjamin White, Ph.D.

### **Term Instructor**

Mallory Carpenter, M.A.; Robert Ellison, Ph.D.; Cody Lumpkin, Ph.D.; Carrie Oeding, Ph.D.; Laura Sonderman, M.A.

## **FINANCE AND ECONOMICS**

### **Professor**

Jacqueline Agesa, Ph.D.; Richard Agesa, Ph.D.; Michael L. Brookshire, Ph.D.; Dallas Brozik, Ph.D.; Michael Newsome, Ph.D.; Lawrence P. Shao, Ph.D.; Harlan M. Smith, II, Ph.D. (Division Head)

### **Associate Professor**

Allen J. Wilkins, Ph.D.; Shaorang Zhang, Ph.D.

### **Assistant Professor**

Rishav Bista, Ph.D.; Yuanyuan Chen, Ph.D.; Mohammed Karim, Ph.D.; Robin McCutcheon, Ph.D.; Rebecca Tomasik, Ph.D.

### **Instructor**

Scott Denning, M.B.A.

## **GEOGRAPHY**

### **Professor**

Joshua Hagen, Ph.D. (Chair); James M. Leonard, Ph.D.

### **Associate Professor**

Kevin Law, Ph.D.; Anita Walz, Ph.D.

### **Assistant Professor**

Godwin Djietror, Ph.D.

## **GEOLOGY**

### **Professor**

Ronald L. Martino, Ph.D.

### **Associate Professor**

Aley El-Shazly, Ph.D.; William L. Niemann, Ph.D. (Chair)

### **Assistant Professor**

Mitchell Scharman, Ph.D.

## **HISTORY**

### **Professor**

Montserrat M. Miller, Ph.D.; William G. Palmer, Ph.D.

### **Associate Professor**

Kevin Barksdale, Ph.D.; Daniel U. Holbrook, Ph.D. (Chair); David Mills, Ph.D., Greta Rensenbrink, Ph.D.; David J. Trowbridge, Ph.D.; Kathie D. Williams, Ph.D.

### **Assistant Professor**

Robert Deal, Ph.D.; Laura Michele Diener, Ph.D.; Anara Tabyshalieva, Ph.D. ; Michael Woods, Ph.D.

## **INTEGRATED SCIENCE AND TECHNOLOGY**

### **Professor**

Margaret Phipps Brown, J.D.; Menashi Cohenford, Ph.D.; Angela D. Crews, Ph.D.; Gordon A. Crews, Ph.D.; Samuel L. Dameron, Ph.D.; Elizabeth Murray, Ph.D.

### **Associate Professor**

Mindy Armstead, Ph.D., Dhruba J. Bora, Ph.D.; Hamid Chahryar, Ph.D.; Kimberly A. DeTardo-Bora, Ph.D.; Tom Jones, Ph.D.; SeungJin Lim, Ph.D., Brian M. Morgan, M.S. (Chair)

### **Assistant Professor**

Josh Brunty, M.S., Bill Gardner, M.A., David Graefe, Ph.D., Min Kook Kim, Ph.D.; John Sammons, M.S.

### **Instructor**

Sam Colvin, M.A.; Terry Shank, M.S.

## **JOURNALISM AND MASS COMMUNICATIONS**

### **Professor**

Charles G. Bailey, Ed.D. (Faculty Manager, WMUL-FM); Corley F. Dennison, III., Ed.D. (Associate Vice President for Academic Affairs and Dean of Undergraduate Studies); Burnis Morris, M.A. (Carter G. Woodson Chair); Jennifer Sias, M.A., M.L.S.

### **Associate Professor**

Janet L. Dooley, M.S. (Associate Dean, College of Arts and Media; Director, W. Page Pitt School of Journalism and Mass Communications); Allyson Goodman, M.S.; Terry Hapney, Ph.D.; Dan Hollis, M.A.; Rebecca J. Johnson, M.A.J.; Robert Rabe, Ph.D.; Christopher Swindell, Ph.D.

### **Assistant Professor**

Christine Ingersoll, M.F.A.; Sandra York, M.A.J.

## **KINESIOLOGY**

### **Professor**

Jennifer Mak, Ph.D.; Gary McIlvain, Ed.D., LAT/ATC (Chair); Terry Shepherd, Ph.D.

### **Associate Professor**

Abbey Dondanville, Ed.D.; Jarrod Schenewark, Ph.D.; Gregg Twietmeyer, Ph.D.

### **Assistant Professor**

WonYul Bae, Ph.D.; Suzanne Konz, Ph.D., ATC, CSCS; Kumika Toma, Ph.D.

## **MANAGEMENT, MARKETING, AND MANAGEMENT INFORMATION SYSTEMS**

### **Professor**

Elizabeth Alexander, Ph.D.; Lorraine P. Anderson, Ed.D.; Charles Braun, Ph.D.; Dennis C. Emmett, D.B.A.; Deanna Mader, Ph.D.; Frederick Mader, Ph.D. (Interim Division Head); Marjorie Lynn McInerney, Ph.D. (Interim Associate Dean); Dale Shao, Ph.D.; Uday S. Tate, D.B.A.; Rick Weible, Ph.D.

### **Associate Professor**

Alberto Coustasse, Ph.D.; Daesung Ha, Ph.D.; Doohee Lee, Ph.D.; Shane Tomblin, Ph.D.;

### **Assistant Professor**

Frank Bosco, Ph.D.; Anil Gurung, Ph.D.; Won Jun Kwak, Ph.D.; Rex McClure, Ph.D.; Ivan Muslin, Ph.D.; Elizabeth Reusch, A.B.D.; Deepak Subedi, Ph.D.

### **Instructor**

Jamie Field, M.B.A.; Jamey Halleck, M.B.A.; David Spudich, M.B.A.

## **MATHEMATICS**

### **Professor**

Laura J. Adkins, Ph.D.; Alfred Akinsete, Ph.D.; Ariyadasa Aluthge, Ph.D.; Clayton Brooks, Ph.D.; Matthew Carlton, Ph.D.; David A. Cusick, Ph.D.; John Drost, Ph.D.; Bonita Lawrence, Ph.D.; Karen Mitchell, Ed.D.; Evelyn Pupplo-Cody, Ph.D.; Gerald E. Rubin, Ph.D.; Scott Sarra, Ph.D.; Peter Saveliev, Ph.D.

Judith Silver, Ph.D.

### **Associate Professor**

Alan Horwitz, Ph.D.; Basant Karna, Ph.D.;

### **Assistant Professor**

JiYoon Jung, Ph.D.; Avishek Mallick, Ph.D.; Anna Mummert, Ph.D.; Carl Mummert, Ph.D.; Elizabeth Niese, Ph.D.; Michael Schroeder, Ph.D.; Suman Sanyal, Ph.D.

### **Instructor**

Jessica Briscoe, M.A.; Mary Crytzer, M.A.; Rob-Roy Mace, M.A.; Tracy Marsh, M.S.; Shannon Miller, M.A.; Stacy Scudder, M.A.; Laura Stapleton, M.A.; Kusum Subedi, M.S.; Devon Tivener, M.A.

## **MILITARY SCIENCE**

### **Professor**

LTC Michael Stinnett (Department Head)

### **Assistant Professor**

MAJ Roy Ramey

### **Military Instructors**

SFC Drake Brownlee, MSG Derek Heavener

### **Recruiting Officer**

MAJ Epperly

## **MODERN LANGUAGES**

### **Professor**

M. Cristina Burgueño, Ph.D.; Christopher L. Dolmetsch, Ph.D.; Caroline A. Perkins, Ph.D. (Chair); Carlos López, Ph.D.; Eric Migernier, Ph.D.; José Luis Morillo-Amo, Ph.D.

### **Associate Professor**

Natsuki Fukunaga Anderson, Ph. D.; Maria Rosario Quintana-Villamandos, Ph.D.

### **Assistant Professor**

Shannon Butler, Ph.D.; Viatcheslav Gratchev, Ph.D.; Zelideth M. Rivas, Ph.D.

## **MUSIC**

### **Professor**

Stephen R. Barnett, M.M.; Ann M. Bingham, D.M.A.; W. Edwin Bingham, D.M.A.; David H. Castleberry, D.M.A.(Associate Dean, College of Arts and Media); Sölen Dikener, D.M.A.; Linda L. Dobbs, M.M.; Wendell B. Dobbs, D.M.A.; Richard Kravchak, Ph.D. (Director, School of Music and Theatre); Stephen Lawson, D.M.A.; Ben F. Miller, D.M.A.; Martin W. Saunders, D.M.A.; Elizabeth R. Smith, D.M.A.; Larry W. Stickler, D.M.; Michael S. Stroeher, Ph.D.; Vicki Stroeher, Ph.D.; Mark Zanter, D.M.A.

### **Associate Professor**

Julio Alves, D.M.; James S. Hall, M.M.; Sean Parsons, D.M.A.; Robert Wray, M.M.

### **Assistant Professor**

Henning Vauth, D.M.A.

### **Instructor**

Jeff Wolfe, M.M.

## **NURSING**

### **Professor**

Rebecca Appleton, R.N., Ph.D.; Denise Landry, R.N., Ed.D.; Sandra Prunty, R.N., Ph.D.; Diana Stotts, R.N., Ph.D.; Robin Walton, R.N., Ed.D.

### **Associate Professor**

Joy Cline, R.N., M.S.N.; Debra Greene, R.N., C.N.E., D.N.P.; Susan Imes, R.N., M.S.N.; Deanna Pope, R.N.; M.S.N., D.N.P.; Lisa Ramsburg, M.S.N., Ed.D., CNE; Paula Reilley, M.S.N., Ph.D.; Lynda Turner, R.N., M.S.N., Ed.D.; Susan Welch, M.S.N., Ph.D.; Jeanne Widener, R.N., Ph.D.

### **Assistant Professor**

Nancy Elkins, R.N., M.S.N.

### **Clinical Instructor**

Susan Booton, R.N., M.S.N.; Ashlee Gallion, R.N., M.S.N.; Klara Kovacs, R.N., M.S.N., C.N.M.; Jessica Maynard, R.N., M.S.N.

## **NURSING: ST. MARY'S MARSHALL COOPERATIVE NURSING PROGRAM FACULTY**

### **Professor**

Shelia M. Kyle, R.N., M.S.N., Ed.D. (Director)

*(continued)*

### **Assistant Professor**

Lynn W. Andrews, R.N.C., M.S.N.; Deborah Bridgewater, R.N., M.S.N.; Julie D. Burgett, R.N., M.S.N.; Chyrl Connor Budd, R.N., M.S.N., C-FNP; Faye Farmer Clevenger, R.N.C., M.S.N.; Penelope Daniels, R.N.C.S., M.S., C-FNP; Duane Napier, R.N., M.S.N.; Brenda Parker Owen, R.N., M.S.N.; Linda Sams Peake, R.N.C., M.S.N.; Phyllis E. Swift, R.N., M.S.N.; Tonya Taylor, R.N., M.S.N.; Carol Woodard, R.N., M.S.N.

## **PHILOSOPHY**

### **Professor**

Jeremy Barris, Ph.D.; Gayle L. Ormiston, Ph.D.; Jeffrey Powell, Ph.D.; John N. Vielkind (Chair), Ph.D.

## **PHYSICS AND PHYSICAL SCIENCE**

### **Professor**

Ralph E. Oberly, Ph.D.; Nicola Orsini, Ph.D. (Chair); Thomas E. Wilson, Ph.D.

### **Associate Professor**

Maria Babuic, Ph.D.; Xiaojuan Fan, Ph.D.; Huong Nguyen, Ph.D.

### **Assistant Professor**

Curtis Foltz, Ph.D.; Howard Richards, Ph.D.; Jon Saken, Ph.D.; John Winfrey, Ph.D.

## **POLITICAL SCIENCE**

### **Professor**

Robert W. Behrman, Ph.D.; Cheryl Brown, Ph.D.; Jamie Warner, Ph.D.

### **Associate Professor**

Marybeth Beller, Ph.D. (Chair); George Davis, Ph.D.; Jess Morrissette, Ph.D.

### **Assistant Professor**

Adam M. Butz, Ph.D.; Shawn Schulenberg, Ph.D.

## **PSYCHOLOGY**

### **Professor**

Martin J. Amerikaner, Ph.D.; Massimo Bardi, Ph.D.; Keith Beard, Psy.D.; Marianna Fotto-Linz, Ph.D.; Christopher W. Legrow, Ph.D.; Marc A. Lindberg, Ph.D.; Steven P. Mewaldt, Ph.D. (Chair); Pamela Mulder, Ph.D.; Steve O'Keefe, Ph.D.; David J. Pittenger, Ph.D. (Interim Associate Vice President); Joseph Wyatt, Ph.D.

### **Associate Professor**

April D. Fugett-Fuller, Ph.D.; Keelon Hinton, Ph.D.; Thomas D. Linz, Ph.D.; Paige Muellerleile, Ph.D.

### **Assistant Professor**

Tony Goudy, Ph.D.; Dawn Howerton, Ph.D.; Penny Koontz, Psy. D.; Jennifer Tiano, Ph.D.

## **RELIGIOUS STUDIES**

### **Professor**

Clayton L. McNearney, Ph.D.; Jeffrey Ruff, Ph.D.

## **SOCIAL WORK**

### **Professor**

Philip W. Carter, Jr., M.S.W.; Jo Dee Gottlieb, M.S.W., LCSW, Peggy Harmon, Ph.D.

## **SOCIOLOGY AND ANTHROPOLOGY**

### **Professor**

Nicholas P. Freidin, D.Phil.

### **Associate Professor**

Richard Garnett, Ph.D.; Markus Hadler, Ph.D.; Brian Hoey, Ph.D.; Marty Laubach, Ph.D. (Chair); Frederick Roth, Ph.D.; Donna Sullivan, Ph.D.



**Assistant Professor**

Robin Conley, Ph.D.; Kristi Fondren, Ph.D.

**TEACHER EDUCATION**

(See Education)

**THEATRE****Professor**

John Colclough, M.F.A.; Julie Jackson, Ph.D.; Edward Leo Murphy, M.F.A.; Howard Lang Reynolds, M.F.A.

**Associate Professor**

Joan St. Germain, M.F.A.

**Assistant Professor**

Nicole Perrone, M.F.A.

**UNIVERSITY LIBRARIES****Professor/Librarian IV**

Kathleen Bledsoe, M.L.S., M.A. (Special Collections Librarian); Monica Brooks, M.S.L.S., Ed.S., Ed.D. (Assistant Vice President for Information Technology); Edward Dzierzak, M.S.L.S. (Director of Health Science Library); Majed Khader, M.L.S., Ph.D. Lib. Sci. (Associate University Librarian/Director of the Morrow Library); Jennifer Sias, M.A., M.L.S. (Associate University Librarian/Director of Research, Information Literacy & Instructional Services)

**Associate Professor/Librarian III**

Timothy Balch, M.A., M.L.S. (Reference Services Librarian); Nathaniel DeBruin, M.L.S. (University Archivist); Lynne Edington, M.S.L.S., Ed.S. (Graduate College Librarian); Celene Seymour, M.L.S., Ph.D. (Director South Charleston Library); Steve Tipler, M.B.A., M.S., M.L.S. (Reference/Information Delivery Librarian); Ronald Titus, M.A., M.L.S. (Electronic Services Librarian); Paris Webb, M.S.L.S., M.A. (Digital Resources & Systems Support Librarian); Robert Williams, M.A., M.L.S. (Health Sciences Librarian); Jingping Zhang, M.L.S. (University Librarian/Director of Libraries Operations)

**Assistant Professor/Librarian II**

Kelli Johnson, M.S., M.L.S., (Instruction & Reference Services Librarian); Christine Lewis, M.L.S., M.S.I.R. (Collection Development Librarian); Sabrina Thomas, M.L.S. (Digital Learning & Instruction Librarian)



# University Calendar

## Marshall University Academic Calendar for 2013-2014

### FIRST SEMESTER 2013-2014

August 16 .....	End of summer school
August 19, Monday – August 23, Friday .....	Registration/Schedule Adjustment
August 21, Wednesday, 9 a.m. ....	Residence Halls Open for Freshmen
August 22, Thursday – August 23, Friday .....	Freshman Week of Welcome
August 25, Sunday .....	Residence Halls Open for Upperclassmen
August 26, Monday, 8 a.m. ....	First Day of Classes
August 26, Monday – August 30, Friday .....	Late Registration and Schedule Adjustment (Add/Drop)
August 31, Saturday – September 2, Monday .....	University Computer Services Unavailable
September 2, Monday .....	Labor Day Holiday (University Closed)
September 3, Tuesday .....	“W” Withdrawal Period Begins
September 20, Friday .....	Application for December Graduation Due in Academic Dean’s Office
September 27, Friday .....	Last Day to Drop 1st 8 Weeks Courses
October 7, Monday .....	Graduate Students: Final Draft of Thesis/Dissertation Due in Advisor’s Office
October 15, Tuesday .....	Mid-Semester 1st 8 Weeks Courses End
October 16, Wednesday .....	2nd 8 Weeks Courses Begin
October 21, Monday, Noon .....	Deadline for Submitting Freshman Mid-Term Grades
October 28, Monday .....	Students should schedule appointments with advisors to prepare for advance registration. (Required for students who have mandatory advising holds)
November 1, Friday .....	Last Day to Drop a Full Semester Individual Course
November 4, Monday .....	Recommended Date to Apply for May 2014 Graduation
November 4, Monday - December 6, Friday .....	Complete Withdrawals Only
November 11, Monday - November 22, Friday .....	Advance Registration for Spring Semester for Currently Enrolled Students
November 15, Friday .....	Last Day to Drop 2nd 8 Weeks Courses
November 23, Saturday, Noon .....	Residence Halls Close (Freshmen residence halls remain open during break)
November 25, Monday - November 30, Saturday .....	Thanksgiving/Fall Break Classes Dismissed
November 28, Thursday .....	Thanksgiving Holiday University Closed
November 29, Friday .....	University Holiday University Closed
December 1, Sunday .....	Residence Halls Open
December 2, Monday .....	Classes Resume
December 2, Monday – December 7, Saturday .....	Dead Week
December 6, Friday .....	Last Day to Completely Withdraw for Fall Semester
December 7, Saturday .....	Last Class Day
December 9, Monday .....	Exam Day
December 10, Tuesday .....	Exam Day
December 11, Wednesday .....	Study Day - exams resume at 3:00 pm
December 12, Thursday .....	Graduate Students: Approved ETD Must Be Uploaded to ProQuest
December 12, Thursday .....	Exam Day

December 13, Friday .....	Exam Day
December 14, Saturday .....	Exam Day - Saturday classes and some common finals
December 15, Sunday, 2:00 pm .....	Winter Commencement - Henderson Center
December 15, Sunday, Noon .....	Residence Halls Close
December 16, Monday, Noon .....	Deadline for Submitting Final Set of Grades
December 20, Friday, 5PM .....	University Closes
December 21, Saturday - January 1, 2014, Wednesday .....	University Closed - winter break
December 27, Friday .....	Student Service Offices Open 10:00 a.m. – 4:00 p.m. (Admissions, Advising, Bursar, Financial Aid, Student Resource Center, Registrar)
December 30, Monday .....	Student Service Offices Open 10:00 a.m. – 4:00 p.m. (Admissions, Advising, Bursar, Financial Aid, Student Resource Center, Registrar)

## SECOND SEMESTER 2013-2014

January 2, 2014, Thursday .....	University Offices Open
January 2, Thursday – January 10, Friday .....	Registration/Schedule Adjustment
January 12, Sunday, 9 a.m. ....	Residence Halls Open
January 13, Monday, 8AM .....	First Day of Classes
January 13, Monday – January 17, Friday .....	Late Registration and Schedule Adjustment (Add/Drop)
January 17, Friday .....	Last Day to Add Classes (Withdrawals Only After This Date)
January 20, Monday .....	Martin Luther King, Jr. Holiday (University Closed)
January 21, Tuesday.....	“W” Withdrawal Period Begins
February 7, Friday.....	Application for May Graduation (Due in Academic Dean’s Office)
February 14, Friday .....	Last Day to Drop 1st 8 Weeks Courses
March 5, Wednesday .....	Mid-Semester (1st 8 Weeks Courses End)
March 6, Thursday.....	2nd 8 Weeks Courses Begin
March 10, Monday, Noon.....	Deadline for Submitting Freshman Mid-Term Grades
March 15, Saturday, Noon.....	Residence Halls Close
March 17, Monday – March 22, Saturday .....	Spring Break (Classes Dismissed)
March 23, Sunday, 9 a.m.....	Residence Halls Open
March 24, Monday .....	Classes Resume
March 24, Monday .....	Final Draft of Thesis/Dissertation Due in Advisor’s Office
March 28, Friday.....	Last Day to Drop a Full Semester Individual Course
March 31, Monday .....	Students should schedule appointments with advisors to prepare for advance registration. (Required for students who have mandatory advising holds)
March 31, Monday – May 2, Friday .....	Complete Withdrawals Only
March 31, Monday – April 4, Friday .....	Advance Registration (for Currently Enrolled Students)
April 07, Monday.....	Advance Registration For Summer Session (Open to All Admitted/Re-admitted Students)
April 7, Monday.....	Recommended Date to Apply for December 2014 Graduation
April 8, Tuesday .....	Assessment Day Classes Cancelled for University-Wide Assessment Activities. Students obtain list of activities from department chair. Undecided students should go to their college office for a list. (Evening Classes 4:00 p.m. or Later Will Meet)
April 11, Friday .....	Last Day to Drop 2nd 8 Weeks Courses
April 14, Monday – April 25, Friday .....	Advance Registration For Fall Semester (for Currently Enrolled Students)
April 28, Monday.....	Advanced Registration for Fall Semester Open to All Admitted/Re-admitted Students Except First-Time Fall Undergraduates
April 28, Monday – May 2, Friday .....	“Dead Week”
May 2, Friday .....	Last Class Day and Last Day to Completely Withdraw For Spring Semester

May 3, Saturday .....	Exam Day for Saturday Classes (and some common finals)
May 5, Monday .....	Exam Day
May 6, Tuesday .....	Exam Day
May 7, Wednesday .....	Study Day (Exams for Wednesday Classes 3 p.m. and After Will Be Held)
May 8, Thursday .....	Exam Day
May 9, Friday .....	Exam Day
May 10, Saturday .....	Commencement (Time: TBA)
May 10, Saturday, Noon .....	Residence Halls Close
May 12, Monday .....	Summer classes begin
May 13, Tuesday, Noon .....	Deadline for Submitting Final Set of Grades
May 24, Saturday – May 26, Monday .....	University Computer Services Unavailable
May 26, Monday .....	Memorial Day Holiday University Closed
July 4, Friday .....	Independence Day Holiday Observed University Closed
May 12, Monday – August 15, Friday .....	Summer School Sessions

## SUMMER SESSIONS 2014

### *Intersession*

May 09, Friday, 8 a.m. - 5 p.m. ....	Regular Registration
May 12, Monday .....	First Day of Classes
May 12, Monday, 8 a.m. - 5 p.m. ....	Late Registration/Schedule Adjustment Closes
May 13, Tuesday .....	“W” Withdrawal Period Begins
May 23, Friday .....	Last Day to Drop an Individual Course
May 24, Saturday – May 26, Monday .....	University Computer Services Unavailable
May 26, Monday .....	Memorial Day Holiday - University Closed
May 27, Tuesday – June 5, Thursday .....	Complete Withdrawals Only
June 5, Friday .....	Final Examination Day
June 9, Monday, Noon .....	Deadline for Submitting Final Grades

### *Summer I*

May 16, Friday, 8 a.m. - 5 p.m. ....	Regular Registration
May 19, Monday .....	First Day of Classes
May 19, Monday .....	Late Registration/Schedule Adjustment Closes
May 20, Tuesday .....	“W” Withdrawal Period Begins
May 24, Saturday – May 26, Monday .....	University Computer Services Unavailable
May 26, Monday .....	Memorial Day Holiday - University Closed
July 4, Friday .....	Independence Day Holiday Observed - University Closed
July 11, Friday .....	Final Draft of Thesis Due in Advisor's Office
July 11, Friday .....	Application for August Graduation Due
July 18, Friday .....	Last Day to Drop an Individual Course
July 21, Monday – August 7, Thursday .....	Complete Withdrawals Only
August 7, Thursday .....	Last Class Day - Last Day to Completely Withdraw from Summer I
August 7, Thursday .....	Approved Thesis/Dissertation Must Be Submitted Electronically All Paperwork/Checks Must Be in Graduate College Office
August 8, Friday .....	Final Examination Day
August 11, Monday, Noon .....	Deadline for Submitting Final Grades

### *Summer II*

June 6, Friday, 8 a.m. - 5 p.m. ....	Regular Registration
June 8, Sunday, 9 a.m. ....	Residence Halls Open
June 9, Monday .....	First Day of Classes
June 9, Monday .....	Late Registration/Schedule Adjustment Closes
June 10, Tuesday .....	“W” Withdrawal Period Begins
June 13, Friday .....	Application for July Graduation Due in Academic Dean's Office Final Draft of Thesis/Dissertation Due in Advisor's Office

June 14, Friday ..... Last Day to Drop an Individual Course  
 June 30, Monday – July 10, Thursday ..... Complete Withdrawals Only  
 July 4, Friday ..... Independence Day Holiday Observed - University Closed  
 July 10, Thursday ..... Approved Thesis/Dissertation Due in Graduate College Office  
 July 10, Thursday ..... Last Class Day - Last Day to Completely Withdraw from Summer II  
 July 11, Friday ..... Final Examination Day - Official July Graduation Date  
 July 14, Monday, Noon ..... Deadline for Submitting Final Grades

### *Summer III*

July 14, Monday, 8 a.m. - 5 p.m. .... Regular Registration  
 July 15, Tuesday ..... First Day of Classes  
 July 15, Tuesday ..... Late Registration/Schedule Adjustment Closes  
 July 16, Wednesday ..... “W” Withdrawal Period Begins  
 July 18, Friday ..... Application for August Graduation Due in Academic Dean’s Office  
 July 18, Friday ..... Final Draft of Thesis/Dissertation Due in Advisor’s Office  
 August 1, Friday ..... Last Day to Drop an Individual Course  
 August 4, Monday – August 14, Thursday ..... Complete Withdrawals Only  
 August 14, Thursday ..... Last Class Day - Last Day to Completely Withdraw from Summer III  
 August 14, Thursday ..... Approved Thesis or Dissertation Due in Graduate College Office  
 August 15, Friday ..... Final Examination Day - Official August Graduation Date  
 August 18, Monday, Noon ..... Deadline for Submitting Final Grades



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